OGDEN *ENERGY GROUP, INC.*

BRIAN BAHOR
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Florida Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation
2600 Blair Stone Road, Mail Station #5500
Tallahassee, FL 32399-2400

September 28, 1998

Reference : Application to Amend Construction Permit No. PSD-FL-113

0690046-002-AC

Dear Mr. Kahn:

Ogden Martin Systems of Lake, Inc. (OMSL) is submitting herein an application to amend Construction Permit No. PSD-FL-113 for its resource recovery facility located in Okahumpka, Florida. This application includes one original and one copy. The original version is provided with a set of four computer diskettes with a completed application file and a $250 check for the application fee.

OMSL believes that the information provided herein is complete and accurate. If you have any questions or need additional information, please do not hesitate to contact me at (973) 882-7236 or Mr. Jason Gorrie at (352) 365-1611.

Sincerely,

Brian Bahor

Brian Bahor
Vice President – Environmental Permitting

cc. Jason Gorrie
Cecil Boatwright
cc: Central District

RECEIVED
SEP 29 1998
BUREAU OF
AIR REGULATION

Application to Amend

Construction Permit No. PSD-FL-113

For

Ogden Martin Systems of Lake, Inc.
3830 Rogers Industrial Road
Okahumpka FL 34762
Lake County

TABLE OF CONTENTS

APPENDICES

1.0 Purpose and Objectives

Pursuant to discussions with Florida Department of Environmental Protection ("Department") staff on July 7, 1998, this application is being submitted in order to amend and replace existing construction permit no. PSD-FL-113 for Ogden Martin Systems of Lake, Inc. ("OMS Lake"). The primary focus of this application is to establish a federally-enforceable throughput limitation for the processing of biomedical waste at the facility. A related aspect of this application is to establish a clear definition of the acceptable fuels for the facility. A final aspect is to incorporate the provisions of the recently finalized Emissions Guidelines for Existing Municipal Waste Combustors ("Guidelines") found at 40 CFR 60, Subpart Cb (40 CFR 60.30b et seq.) Each of the changes outlined above is addressed in the following sections of the application.

2.0 Biomedical Waste Throughput Limitation

2.1 Overview

The existing construction permit, Permit No. PSD-FL-113, was amended in 1990 to acknowledge the fundamental authority of the facility to process biomedical waste. No explicit limitation on the biomedical waste processing rate was imposed during the amendment process; however, the total throughput of each municipal waste combustor (MWC) was established as 288 tons per day (TPD). This situation has led the Department to request that OMS Lake apply for a permit amendment that will reflect the maximum physical capacity of either unit to process biomedical waste.

The 1990 amendment incorporated the regulatory requirements of the FLDEP and there have not been any new or additional regulatory requirements issued by the FLDEP since that time. From a federal perspective, the regulations issued by the USEPA (Subpart Ce) for existing Hospital/Medical/Infectious Waste Incinerators do not apply to a combustor subject to Subpart Cb, Ea or Eb. Therefore, OMS Lake is not subject to any new state or federal regulation issued since the 1990 amendment. This section of the application is therefore limited to defining the biomedical waste throughput limit at OMS Lake.

2.2 Biomedical Waste Throughput Evaluation

The maximum throughput capacity of biomedical waste has been determined by evaluating the combustion and heat release characteristics of each MWC. This evaluation was performed by evaluating the stoker firing diagram provided as Figure 1. This diagram illustrates the mass and heat release relationship for each of the two MWCs. The solid waste firing rate is automatically varied to account for normal variations in the solid waste higher heating value.

The heat input is the dependent variable presented in the y-axis. The heat input (as million Btu/hour) is dependent upon two independent fuel related variables: 1) solid waste firing rate expressed as tons-per-hour (TPH), and 2) the higher heating value (HHV) of the solid waste which is expressed as Btu/lb. Because the HHV is an unknown at any given moment, the solid waste firing rate is varied to maintain the heat input to the MWC necessary to attain a desired steam production rate.

The United States Environmental Protection Agency (USEPA) has recognized that the typical HHV for medical waste is approximately 6000 Btu/lb.[1] This typical value is greater than the typical HHV for MSW; accordingly, given the maximum steam production capacity of 69,000 lb/hr for each boiler, the maximum physical capacity of medical waste for each unit is 10 ton/hr or 240 ton/day.

2.3 Conclusion and Proposed Conditions

The total solid waste throughput of each MWC is a maximum value of 288 TPD and the total maximum biomedical waste throughput limit is 240 TPD. Both of these limits are nameplate values for regulatory reference purposes. Compliance with any solid waste processing rate shall be through the use of steam rate as established at 40 C.F.R. 60.53b and the continuous monitoring requirements of 40 C.F.R. 60.58 b and the stack permit limits for OMS Lake.

3.0 Identification of Acceptable Fuels

3.1 Overview

Existing Permit No. PSD-FL-113 (as amended) established the fuel stream at the facility to include "municipal solid waste which can include biohazardous waste," "wood chips," and "oil spill cleanup debris." At the time the permit was written, "municipal solid waste" was undefined, and remains undefined for facilities constructed prior to the applicability of 40 CFR 60, Subpart Ea. In order to resolve this discrepancy, and to remain consistent with industry practices at other waste-to-energy facilities in Florida, OMS Lake proposes that the acceptable waste be defined as nonhazardous solid waste. This general category of waste would include specific classes of nonhazardous waste defined by the FLDEP such as municipal solid waste and biomedical waste. Table 1 of this application presents other examples of nonhazardous solid waste that would be considered by OMS Lake for disposal. This list is an example and is subject to change with the needs of the generating community.

It is important to note that the materials in Table 1 are already being processed at OMS Lake due to their natural presence in MSW. The current state-wide practice is to have MWCs provide for the disposal of nonhazardous solid waste. The proposed terminology is to more accurately identify the acceptable fuels for the facility.

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[1] "Medical Waste Incineration Handbook", by C.C. Lee, Ph.D., Risk Reduction Engineering Laboratory, United States Environmental Protection Agency

Table 1
Examples of Processible Non-Hazardous Waste for
Ogden Martin Systems of Lake, Inc.

The authorized fuels for the facility are non-hazardous solid wastes including municipal solid waste (MSW) as defined at 40 CFR 60.51b and biomedical waste as defined at 62-210.200, F.A.C, except those materials that are prohibited by state or federal law or otherwise prohibited below. Examples of Non-hazardous solid waste materials that are acceptable for processing together with the municipal solid waste and biomedical waste can include the following:

Wood pallets; construction, renovation, and demolition wastes; clean wood; industrial process or manufacturing wastes; yard wastes; refuse-derived fuel; and motor vehicle maintenance materials.

Items or materials suitable for human, plant, or domesticated animal use, consumption and/or application whose shelf-life has expired or which the generator wishes to remove from the market and ensure the proper destruction of, such as, but not limited to: off-specification or expired consumer-packaged products and pharmaceuticals, non-prescription medications, health care products, toothpaste, hand creams, cosmetics, shampoos, foodstuffs, nutritional supplements, returned goods, and controlled substances.

Consumer-packaged products intended for human or domesticated animal use and/or application but not consumption, such as, but not limited to: carpet cleaners, household or bathroom cleaners, polishes, waxes, detergents, etc.

Waste materials generated in the manufacture of items in the categories above that are functionally or commercially useless (expired, rejected, or spent), or finished products not yet formed or packaged for commercial distribution.

Packaging materials, natural and synthetic fibers, clothing, floor coverings of all types, fabric remnants, empty containers, debris items such as, but not limited to: aprons, gloves, floor sweepings and paints.

Waste materials that contain oil from routine cleanup of industrial or commercial establishments and machinery (such as, but not limited to non-terne or specialty oil filters) or the oil-contaminated materials

Table 1 (continued)
Examples of Processible Non-Hazardous Waste for the
Ogden Martin Systems of lake, Inc.

used in the cleanup of spills of used or virgin petroleum products (including, but not limited to items such as: rags, lints and absorbents).

Waste materials generated by manufacturing, industrial, commercial, or agricultural activities including but not limited to items such as: filtercake from the manufacture of synthetic oil, paint overspray, or other filtration materials from industrial processes and systems.

Confidential documents (including, but not limited to business records, lottery tickets, event tickets, and microfilm).

Contraband which may be disposed of at the request of appropriately authorized local, state, or federal government agencies.

The authorized fuels may be received either as a mixture or as a single-item stream of household, commercial, institutional, agricultural, or industrial discards. The facility may receive oil spill debris. Waste tires may be accepted, but may not exceed 3% of the facility's fuel. The authorized fuels shall be well mixed with MSW or alternately charged with MSW. The facility owner shall not knowingly process prohibited fuels, such as lead-acid batteries, and sewage sludge from Publicly Owned Treatment Works.

4.0 Subpart Cb Requirements

4.1 Overview

On November 13, 1997, the USEPA approved Florida's 111(d) Plan ("Plan") for Existing Municipal Waste Combustors, incorporating the provisions of 40 CFR 60, Subpart Cb (provided as Appendix E). Both units at OMS Lake are addressed by the Plan and have certain compliance responsibilities that will become effective prior to the final compliance date of November 13, 2000. The final aspect of this application is intended to reference these new requirements for incorporation into the new permit.

4.2 Comparison of Subpart Cb with Existing Permit Conditions

4.2.1 Performance Standards

The intent of this section is to compare the existing air permit criteria with the requirements of Subpart Cb. Table 2 provides a comparison of the air emission performance requirements and provides a determination of which set of standards is more stringent. This application proposes that the performance criteria identified as "More Stringent" in Table 2 are appropriate for the operating permit for the facility.

This application proposes that the annual test requirement for three pollutants should be removed due to the historical database at OMS Lake and general information learned since the permitting of the facility. The three pollutants are beryllium, fluoride and volatile organic compounds. Table 3 presents the average results from the annual stack test programs since facility startup.

Beryllium was originally included in the PSD application due to its presence in the National Emission Standards for Hazardous Air Pollutants (NESHAPS) program. The facility does not accept waste from any of the beryllium waste generating operations covered by the NESHAPS rule. The nondetectable results since startup are evidence that the concentration of beryllium in the stack flue gas has been nonexistent or so low that it cannot be measured. The absence of detectable results and the cost of this testing are two valid reasons to delete this test parameter from the permit test scope.

Volatile organic compounds (VOCs) are known to be the result of incomplete combustion. The Good Combustion Practices (GCP) criteria of Subpart Cb was an engineered solution to confirm that good combustion is occurring on a continuous basis. Evidence that good combustion is being maintained is provided through the continuous monitoring of combustor steam load and carbon monoxide concentration. These two parameters provide a continuous and reliable source of data. The implementation of Test Method 25A is costly and provides minimal information when compared to the data available through the continuous measurement data. The VOC data in Table 3 illustrates the uniformly low concentrations of VOCs. This application therefore proposes the deletion of the test requirement for VOC and the use of Subpart Cb monitoring requirements as a surrogate.

Stack fluoride emissions are due to the presence of fluoride in the waste stream and its conversion to hydrogen fluoride. The emission rate of this pollutant is typically very low due to the low concentration in waste and the high removal efficiency of the semi-dry scrubber in removing this pollutant from the flue gas. Hydrogen fluoride is removed at a higher efficiency than SO2 due to chemical characteristics. The compliance stack data from OMS Lake presented in Table 3 confirms that the stack emissions are consistently below the existing permit limit. The new Subpart Cb standards for sulfur dioxide (SO2) and hydrogen chloride (HCl) are both more stringent than the existing SO2 and HCl criteria; therefore, the semi-dry scrubber system will continue to be operated in a manner that will assure low fluoride emissions. This application therefore proposes the deletion of the test requirement for fluoride and the use of monitoring of SO2 emissions as a surrogate.

4.2.2 Air Pollution Control Equipment Design
Article 2.c of Permit AO35-193817 states that the system shall be designed to cool flue gas to an average temperature not exceeding 300 degrees Fahrenheit as a 3-hour rolling average. The facility has demonstrated that this condition can be met through its design and operation. Subpart Cb uses a 4-hour arithmetic average for regulating the flue gas temperature into the particulate control device, which in this case is a baghouse. The maximum temperature is determined during the most recent dioxin/furan compliance test where the standards are met.

This application proposes that the Subpart Cb standard be used to replace the existing Article 2.c.

4.2.3 Operations Monitoring
Article 4.b of PSD Permit Number PSD-FL-113 states that furnace heat load shall be maintained between 80% and 100% of the design rated capacity during normal operations. 40 C.F.R. 60.53b establishes operating standards for municipal waste combustors.

This application proposes that 60.53b be used to replace the existing Article 4.b in its entirety to be consistent with federal requirements without creating any redundancy or conflicts in reporting requirements. The average steam production as a 4-hour block average would be rate of 69,000 lb/hour for each individual municipal waste combustor with the steam rated at 865 psig and 830 degrees Fahrenheit (1412.9 Btu/lb).

4.2.4 Continuous Emissions Monitoring (CEM)
Article 3.b establishes how to manage CEM data during periods of startup and shutdown. This application proposes that 40 CFR 60.58b replace Article 3.b in its entirety to be consistent with federal requirements without creating any redundancy or conflicts in reporting requirements.

4.2.5 Test Methods

Article 4 establishes the test methods and procedures for a range of parameters and pollutants. Method 29 was promulgated since the date of the construction permit and is recognized as the preferred test method for many metals including lead, cadmium and mercury. This application therefore proposes that Method 29 should be included as a valid test method for the scope of pollutants considered by this method.

Table 2
Comparison of Existing Permit Conditions and
Subpart Cb Requirements (a)

Parameter		Performance Standard		
Pollutant	Engineering Unit	Existing Permit	Subpart Cb	More Stringent
1.0 Acid Gases				
Sulfur Dioxide	% Removal	70	75	75
	PpmdV @ 7 % O2	NA	29	29
	PpmdV @ 12 % CO2	60	NA	None
	Average period (hrs)	6 hour rolling	24	24 Hour
Hydrogen Chloride	% Removal	90	95	95
	PpmdV @ 7 % O2	50	29	29
2.0 Nitrogen Oxides	PpmdV @ 7% O2	385	205	205
	Average period (hrs)		24	24
3.0 Metals				
3.1 Cadmium	Mg/dscm	None	0.04	0.04
3.2 Lead	Mg/dscm	None	0.44	0.44
	Gr/dscf @ 12 % CO2	0.00031	None	None
3.3 Mercury	Mg/dscm	None	80	70 (b)
	Gr/dscf @ 12 % CO2	0.00034	None	None
	% Removal	NA	85	85
4.0 Particulate				
4.1 Suspended	Gr/dscf @ 7 % O2	0.02	0.012	0.012
	Gr/dscf @ 12 % CO2	0.015	NA	None
4.2 Opacity	%		10	10
	Average period (minutes)	6	6	6
5.0 Dioxin/Furan	Ng/dscm @ 7 % O2	None	30	30
6.0 Carbon Monoxide	PpmdV @ 7% O2	100	100	100
	Average period (hrs)	1	24	24

(a) Pollutant scope is limited to scope regulated by Subpart Cb.
(b) 70 ug/dscm FLDEP standard is more stringent than the Subpart Cb standard.

Table 3
Summary of Compliance Test Results for
Beryllium, VOCs and Fluoride

Test Parameter		Test Period	
Pollutant	MWC Unit	1991	1996
Beryllium (as gr/dscf at 12 % CO2)	1	ND	6.32 E – 9
	2	ND	6.29 E – 9
	Average	ND	6.31 E –9
	Perrnit Limit	2 E –7	2 E – 7
VOC (as ppmdV at 12 % CO2)	1	0.9	4.67
	2	3.2	4.22
	Average	2.05	4.45
	Permit Limit	70	70
Fluoride	1	1.49 E – 5	<2.54 E –4
	2	1.79 E – 5	2.85 E –4
	Average	1.64 E – 5	2.695 E – 4
	Permit Limit	1.50 E – 3	1.50 E – 3

4.3 Equipment Modifications

4.3.1 Selective Non-catalytic Reduction System

A review of the Subpart Cb requirements and the existing facility capabilities indicates that additional air pollution control technology will be required to achieve compliance with the "More Stringent" standards. In particular, a selective non-catalytic reduction (SNCR) system will be required to achieve compliance with the NOX criteria of 205 ppmdV at 7 % O2 as a daily average.

4.3.2 NOX Analyzer

A NOX analyzer will be added to the existing scope of continuous emission monitoring equipment to enable the continuous monitoring of NOX emissions at the stack sample location. This analyzer will be consistent with the extractive extraction and treatment system and its electrical output will be consistent with the current data monitoring system. The DEP reports will be reconfigured to accommodate this pollutant when reporting becomes necessary.

4.4 Facility Compliance Schedule

Per the USEPA approved State 111(d) Plan, the following compliance schedule applies to the facility:

1. Submittal of a final control plan for the facility to the appropriate air pollution control agency: February 13, 1998. (Submitted 2/10/98)
2. Awarding of contracts for emission control systems or for process modifications, or issuance of orders for the purchase of component parts to accomplish emission control or process modification: February 13, 1999
3. Initiation of on-site construction or installation of emission control equipment or process change: August 13, 1999
4. Completion of on-site construction or installation of emission control equipment or process change: December 13, 1999
5. Final compliance: November 13, 2000

5.0 FDEP Form No. 62-210.900(1)

A hard copy of DEP Form No. 62-210.900(1) is attached in this document. The original application includes four 3 ½ diskettes with the same information. The attachment does include a signed copy of the necessary form, page I. Part 2 – 1.

Department of
Environmental Protection

DIVISION OF AIR RESOURCES MANAGEMENT

APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

Identification of Facility Addressed in This Application

1. Facility Owner/Company Name : Ogden Martin Systems of Lake, Inc.
2. Site Name : Lake County Resource Recovery Facility
3. Facility Identification Number : [ ] Unknown
4. Facility Location : Ogden Martin Systems of Lake, Inc. Street Address or Other Locator : 3830 Rogers Industrial Park Rd City : Okahumpka County : Lake Zip Code : 34762
5. Relocatable Facility? [ ] Yes [X] No 6. Existing Permitted Facility? [X] Yes [ ] No

Rec'd 29 Sept. '98
Ais ID - 0690046-002-AC

DEP Form No. 62-210.900(1) - Form
Effective : 3-21-96

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official :

Name : Gary K. Crane
Title : Executive Vice President

2. Owner or Authorized Representative or Responsible Official Mailing Address :

Organization/Firm : Ogden Energy Group, Inc.
Street Address : 40 Lane Road
City : Fairfield
State : NJ Zip Code : 07007-2615

3. Owner/Authorized Representative or Responsible Official Telephone Numbers :

Telephone : (973)882-7248 Fax : (973)882-4167

4. Owner/Authorized Representative or Responsible Official Statement :

I, the undersigned, am the owner or authorized representative of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions units.*

Signature

9/20/96
Date

* Attach letter of authorization if not currently on file.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type
001	MWC Unit #1	
002	MWC Unit #2	

Purpose of Application and Category

ategory I : All Air Operation Permit Applications Subject to Processing Under Chapter 62-213, .A.C.

This Application for Air Permit is submitted to obtain :

[ ] Initial air operation permit under Chapter 62-213, F.A.C., for an existing facility which is classified as a Title V source.

[ ] Initial air operation permit under Chapter 62-213, F.A.C., for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number :

[ ] Air operation permit renewal under Chapter 62-213, F.A.C., for a Title V source.

Operation permit to be renewed :

[ ] Air operation permit revision for a Title V source to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number :

Operation permit to be revised :

[ ] Air operation permit revision or administrative correction for a Title V source to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application.

Operation permit to be revised/corrected :

[ ] Air operation permit revision for a Title V source for reasons other than construction or modification of an emissions unit.

Operation permit to be revised :

Reason for revision :

ategory II : All Air Operation Permit Applications Subject to Processing Under Rule 2-210.300(2)(b), F.A.C.

This Application for Air Permit is submitted to obtain :

[ ] Initial air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s) :

[ ] Renewal air operation permit under Fule 62-210.300(2)(b), F.A.C., for a synthetic non-Title V source.

Operation permit to be renewed :

[ ] Air operation permit revision for a synthetic non-Title V source.

Operation permit to be revised :

Reason for revision :

Category III : All Air Construction Permit Applications for All Facilities and Emissions Units

This Application for Air Permit is submitted to obtain :

[ ] Air construction permit to construct or modify one or more emissions units within a facility (including any facility classified as a Title V source).

Current operation permit number(s), if any :

[X] Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

Current operation permit number(s) :
PSD-FL-113

[ ] Air construction permit for one or more existing, but unpermitted, emissions units.

Application Processing Fee

Check one :

[X] Attached - Amount : $250.00 [ ] Not Applicable.

Construction/Modification Information

1. Description of Proposed Project or Alterations :

   The purpose behind this Application for Modified Permit is to establish a federally enforceable throughput limitation for medical waste processing in both combustion units and to more clealy define the acceptable fuels for the facility.

2. Projected or Actual Date of Commencement of Construction :

3. Projected Date of Completion of Construction :

Professional Engineer Certification

1. Professional Engineer Name : Bill Crellin
   Registration Number : PE-0046574

2. Professional Engineer Mailing Address :

   Organization/Firm : Ogden Energy Group, Inc.
   Street Address : 3830 Rogers Industrial Park Rd
   City : Okahumpka State : FL Zip Code : 34762

3. Professional Engineer Telephone Numbers :
   Telephone : (352)365-1611 Fax : (352)365-6359

4. Professional Engineer Statement :

I, the undersigned, hereby certify, except as particularly noted herein, that :*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollutant control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [ ] if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [ ] if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [ ] if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Wm. L. Cullen, Jr.
Signature
(seal)

9/15/98
Date

* Attach any exception to certification statement.

Application Contact

1. Name and Title of Application Contact :

Name : Brian Bahor
Title : V.P., Environmental Permitting

2. Application Contact Mailing Address :

Organization/Firm : Ogden Energy Group, Inc.
Street Address : 40 Lane Road
City : Fairfield
State : NJ Zip Code : 07007-2615

3. Application Contact Telephone Numbers :

Telephone : (973)882-7236 Fax : (973)882-4167

Application Comment

This application for construction permit amendment is being submitted in accordance with guidance received from Department staff during a 7/8/98 meeting in the offices of the Bureau of Air Regulation.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility, Location, and Type

1. Facility UTM Coordinates : Zone : 17	East (km) : 413.12	North (km) : 3179.21	
2. Facility Latitude/Longitude : Latitude (DD/MM/SS) : 28 44 22	Longitude (DD/MM/SS) : 81 53 23		
3. Governmental Facility Code : 0	4. Facility Status Code : A	5. Facility Major Group SIC Code : 49	6. Facility SIC(s) : 4953
7. Facility Comment :			

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Contact

1. Name and Title of Facility Contact :

Cecil Boatwright
Facility Manager

2. Facility Contact Mailing Address :

Organization/Firm : Ogden Martin Systems of Lake, Inc.
Street Address : 3830 Rogers Industrial Park Rd
City : Okahumpka State : FL Zip Code : 34762

3. Facility Contact Telephone Numbers :

Telephone : (352)365-1611 Fax : (352)365-6359

Facility Regulatory Classifications

1. Small Business Stationary Source?	N
2. Title V Source?	Y
3. Synthetic Non-Title V Source?	N
4. Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?	Y
5. Synthetic Minor Source of Pollutants Other than HAPs?	N
6. Major Source of Hazardous Air Pollutants (HAPs)?	Y
7. Synthetic Minor Source of HAPs?	N
8. One or More Emissions Units Subject to NSPS?	Y
9. One or More Emission Units Subject to NESHAP?	N
10. Title V Source by EPA Designation?	Y
11. Facility Regulatory Classifications Comment : Facility is classified as a Municipal Waste Combustor subject to 40 CFR 60 Subparts E and Cb. 40 CFR 60.50c(e) precludes applicability of 40 CFR 60 Subparts Ec and Ce (HMIWI rules).	

B. FACILITY REGULATIONS

Rule Applicability Analysis

B. FACILITY REGULATIONS

List of Applicable Regulations

40 CFR 60, Including Appendices

62-212, PSD

62-213, Operating Permits

62-296.320(2), Objectionable Odor Prohibited

62-296.300(4)(c) Unconfined PM emissions

40 CFR 60.36b, Fugitive Ash

C. FACILITY POLLUTANTS

Facility Pollutant Information

1. Pollutant Emitted	2. Pollutant Classification

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant _____

1. Pollutant Emitted :
2. Requested Emissions Cap : (lbs/hour) (tons/year)
3. Basis for Emissions Cap Code :
4. Facility Pollutant Comment :

D. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications

1. Area Map Showing Facility Location :	A
2. Facility Plot Plan :	B
3. Process Flow Diagram(s) :	C
4. Precautions to Prevent Emissions of Unconfined Particulate Matter :	NA
5. Fugitive Emissions Identification :	NA
6. Supplemental Information for Construction Permit Applica	D

Additional Supplemental Requirements for Category I Applications Only

7. List of Proposed Exempt
8. List of Equipment/Activities Regulated under
9. Alternative Methods of Operation :
10. Alternative Modes of Operation (Emissions
11. Identification of Additional Applicable
12. Compliance Assurance Monitoring
13. Risk Management Plan Verification :
14. Compliance Report and Plan :
15. Compliance Certification (Hard-copy Requir

III. EMISSIONS UNIT INFORMATION

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 1

MWC Unit #1

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one :

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

III. EMISSIONS UNIT INFORMATION

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 2

MWC Unit #2

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one :

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

Emissions Unit Information Section 1

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : MWC Unit #1		
2. Emissions Unit Identification Number : 001 [ ] No Corresponding ID [ ] Unknown		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment : MWC Unit #1 is a mass-burn solid waste combustion unit utilizing reverse/reciprocating grate technology. See original Application for Construction Permit for details.		

Emissions Unit Information Section 2

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : MWC Unit #2		
2. Emissions Unit Identification Number : 002 [ ] No Corresponding ID [ ] Unknown		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment : MWC Unit #2 is a mass-burn solid waste combustion unit utilizing reverse/reciprocating grate technology. See original Application for Construction Permit for details.		

Emissions Unit Information Section 1

MWC Unit #1

Emissions Unit Control Equipment 1

1. Description : lime injection into flue gas with subsequent removal from baghouse for acid gas control
2. Control Device or Method Code : 67

Emissions Unit Information Section 1

MWC Unit #1

Emissions Unit Control Equipment 2

1. Description : carbon injection into flue gas with subsequent removal from baghouse for mercury and dioxin control
2. Control Device or Method Code : 48

Emissions Unit Information Section 1

MWC Unit #1

Emissions Unit Control Equipment 3

1. Description : baghouse fabric filter for particulate control
2. Control Device or Method Code : 16

Emissions Unit Information Section 2

MWC Unit #2

Emissions Unit Control Equipment 2

1. Description : carbon injection into flue gas with subsequent removal from baghouse for mercury and dioxin control
2. Control Device or Method Code : 48

Emissions Unit Information Section 2

MWC Unit #2

Emissions Unit Control Equipment 3

1. Description : baghouse fabric filter for particulate control
2. Control Device or Method Code : 16

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
MWC Unit #1

Emissions Unit Details

1. Initial Startup Date :	22-Aug-1990			
2. Long-term Reserve Shutdown Date :				
3. Package Unit : Manufacturer : NA			Model Number : NA	
4. Generator Nameplate Rating :	15	MW		
5. Incinerator Information : Dwell Temperature : Dwell Time : Incinerator Afterburner Temperature :	1,800 1.00		Degrees Fahrenheit Seconds Degrees Fahrenheit	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	120	mmBtu/hr		
2. Maximum Incinerator Rate :	24000.00	lb/hr	288.00	tons/day
3. Maximum Process or Throughput Rate :	69000	lb/hr steam		
4. Maximum Production Rate :				
5. Operating Capacity Comment : Total solid waste capacity is 12 ton/hr of 5000 Btu/lb waste. Subtotal medical waste capacity is 240 ton/day of 6000 Btu/lb waste.				

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :			
	24 hours/day		7 days/week
	52 weeks/year		8,760 hours/year

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
MWC Unit #2

Emissions Unit Details

1. Initial Startup Date :	22-Aug-1990			
2. Long-term Reserve Shutdown Date :				
3. Package Unit : Manufacturer : NA			Model Number : NA	
4. Generator Nameplate Rating :	15	MW		
5. Incinerator Information : Dwell Temperature : Dwell Time : Incinerator Afterburner Temperature :	 1,800 1.00 	 Degrees Fahrenheit Seconds Degrees Fahrenheit		

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	120	mmBtu/hr		
2. Maximum Incinerator Rate :	24000.00	lb/hr	288.00	tons/day
3. Maximum Process or Throughput Rate :	69000	lb/hr steam		
4. Maximum Production Rate :				
5. Operating Capacity Comment : Total solid waste capacity is 12 ton/hr of 5000 Btu/lb waste. Subtotal medical waste capacity is 240 ton/day of 6000 Btu/lb waste.				

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :			
	24 hours/day		7 days/week
	52 weeks/year		8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
MWC Unit #1

Rule Applicability Analysis

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
MWC Unit #2

Rule Applicability Analysis

List of Applicable Regulations

FDEP Title V Core List

40 CFR 60 Subpart E, Incinerators

40 CFR Subpart Db, Steam Generating Units

40 CFR 60 Appendix A, Test Methods

40 CFR 60, Appendix B, CEM

62-212, F.A.C., PSD

62-296.320, F.A.C., Pollutant Emission Limiting Standards

62-296.416, F.A.C., Waste-to-Energy Facilities

FDEP Permit No. PSD-FL-113

40 CFR 60, Appendix F, CEM QA/QC

62-296.401, F.A>C., Biological Waste Incinerators

40 CFR 60 Subpart A, General Provisions

List of Applicable Regulations

FDEP Title V Core List

40 CFR 60 Subpart E, Incinerators

40 CFR Subpart Db, Steam Generating Units

40 CFR 60 Appendix A, Test Methods

40 CFR 60, Appendix B, CEM

62-212, F.A.C., PSD

62-296.320, F.A.C., Pollutant Emission Limiting Standards

62-296.416, F.A.C., Waste-to-Energy Facilities

FDEP Permit No. PSD-FL-113

40 CFR 60, Appendix F, CEM QA/QC

62-296.401, F.A>C., Biological Waste Incinerators

40 CFR 60 Subpart A, General Provisions

E. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 1

MWC Unit #1

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	Stack #1	
2. Emission Point Type Code :	1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking : (limit to 100 characters per point)		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common : NA		
5. Discharge Type Code :	V	
6. Stack Height :	199	feet
7. Exit Diameter :	4.3	feet
8. Exit Temperature :	270	°F
9. Actual Volumetric Flow Rate :	59400	acfm
10. Percent Water Vapor :	16.20	%
11. Maximum Dry Standard Flow Rate :	43200	dscfm
12. Nonstack Emission Point Height :	0	feet
13. Emission Point UTM Coordinates : Zone : 17 East (km) : 413.120 North (km) : 3179.210		

14. Emission Point Comment :
Stack shares support structure with Unit 2 stack.

E. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 2

MWC Unit #2

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram : Stack #2		
2. Emission Point Type Code : 1		
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking : (limit to 100 characters per point)		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common : NA		
5. Discharge Type Code :	V	
6. Stack Height :	199	feet
7. Exit Diameter :	4.3	feet
8. Exit Temperature :	270	°F
9. Actual Volumetric Flow Rate :	59400	acfm
10. Percent Water Vapor :	16.20	%
11. Maximum Dry Standard Flow Rate :	43200	dscfm
12. Nonstack Emission Point Height :	0	feet
13. Emission Point UTM Coordinates : Zone : 17 East (km) : 413.120 North (km) : 3179.210		

14. Emission Point Comment :

Stack shares support structure with Unit 1 stack.

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

MWC Unit #1

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : solid waste, mass burn, water-wall furnace	
2. Source Classification Code (SCC) : 10101201	
3. SCC Units : Tons Burned (all solid fuels)	
4. Maximum Hourly Rate : 12.00	5. Maximum Annual Rate : 105,120.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 10	
10. Segment Comment : Maximum hourly rate represents maximum throughput of reference waste (5000 Btu/lb). Lower HHV waste will result in higher mass throughput.	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

MWC Unit #1

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : natural gas firing to heat combustors to minimum temperature for startup, shutdown, or malfunction. Maximum hourly rate based on 1000 Btu/cu.ft. natural gas and 120 mmBtu/hr maximum heat input. Maximum annual rate is not applicable.	
2. Source Classification Code (SCC) : 10101201	
3. SCC Units : Million Cubic Feet Processed	
4. Maximum Hourly Rate : 0.12	5. Maximum Annual Rate :
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 1,000	
10. Segment Comment :	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2

MWC Unit #2

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : solid waste, mass burn, water-wall furnace	
2. Source Classification Code (SCC) : 10101201	
3. SCC Units : Tons Burned (all solid fuels)	
4. Maximum Hourly Rate : 12.00	5. Maximum Annual Rate : 105,120.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 10	
10. Segment Comment : Maximum hourly rate represents maximum throughput of reference waste (5000 Btu/lb). Lower HHV waste will result in higher mass throughput.	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2

MWC Unit #2

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : natural gas firing to heat combustors to minimum temperature for startup, shutdown, or malfunction. Maximum hourly rate based on 1000 Btu/cu.ft. natural gas and 120 mmBtu/hr maximum heat input. Maximum annual rate is not applicable.	
2. Source Classification Code (SCC) : 10101201	
3. SCC Units : Million Cubic Feet Processed	
4. Maximum Hourly Rate : 0.12	5. Maximum Annual Rate :
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 1,000	
10. Segment Comment :	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 1
MWC Unit #1

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - CO			EL
2 - PB	016		EL
3 - NOX			EL
4 - PM	016		EL
5 - SO2	067		EL
6 - VOC			EL
7 - FL	016		EL
8 - HCL	067		EL
9 - H021	016		EL
10 - H114	048	016	EL
11 - H027	016		EL

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 2
MWC Unit #2

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - CO			EL
2 - PB	016		EL
3 - NOX			EL
4 - PM	016		EL
5 - SO2	067		EL
6 - VOC			EL
7 - FL	016		EL
8 - HCL	067		EL
9 - H021	016		EL
10 - H114	048	016	EL
11 - H027	016		EL

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : **CO**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 16.1300000 lb/hour 70.6300000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted : **PB**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 0.1000000 lb/hour 0.4200000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 3

1. Pollutant Emitted : **NOX**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 99.2800000 lb/hour 434.8600000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code :
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 4

1. Pollutant Emitted : **PM**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 4.6300000 lb/hour 20.2700000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 5

1. Pollutant Emitted : **SO2**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 21.5300000 lb/hour 94.2900000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Apendix F
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 6

1. Pollutant Emitted : **VOC**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 6.2800000 lb/hour 27.5000000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment : Pollutant is proposed for deletion.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

MWC Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 7

1. Pollutant Emitted : **FL**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 0.4600000 lb/hour 2.0300000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment : Pollutant is proposed for deletion.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 8

1. Pollutant Emitted : **HCL**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 10.5000000 lb/hour 45.9700000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 9

1. Pollutant Emitted : **H021**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 0.0000620 lb/hour 0.0002700 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment : Pollutant is proposed for deletion.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 10

1. Pollutant Emitted : **H114**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 0.0097000 lb/hour 0.0425000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 11

1. Pollutant Emitted : **H027**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 0.0055400 lb/hour 0.0243000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : **CO**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 16.1300000 lb/hour 70.6300000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted : **PB**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 0.1000000 lb/hour 0.4200000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 3

1. Pollutant Emitted : **NOX**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 99.2800000 lb/hour 434.8600000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code :
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 4

1. Pollutant Emitted : **PM**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 4.6300000 lb/hour 20.2700000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 5

1. Pollutant Emitted : **SO2**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 21.5300000 lb/hour 94.2900000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Apendix F
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 6

1. Pollutant Emitted : **VOC**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 6.2800000 lb/hour 27.5000000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment : Pollutant is proposed for deletion.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 7

1. Pollutant Emitted : **FL**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 0.4600000 lb/hour 2.0300000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment : Pollutant is proposed for deletion.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 8

1. Pollutant Emitted : **HCL**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 10.5000000 lb/hour 45.9700000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 9

1. Pollutant Emitted : **H021**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 0.0000620 lb/hour 0.0002700 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment : Pollutant is proposed for deletion.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 10

1. Pollutant Emitted : **H114**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 0.0097000 lb/hour 0.0425000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment :

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 11

1. Pollutant Emitted : **H027**
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 0.0055400 lb/hour 0.0243000 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor Units Reference
7. Emissions Method Code : 0
8. Calculations of Emissions : See Appendix F
9. Pollutant Potential/Estimated Emissions Comment :

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	100.00		ppmdv @ 7% O2	
4. Equivalent Allowable Emissions :	16.13	lb/hour	70.63	tons/year
5. Method of Compliance : Continuous Emission Monitoring System (CEM)				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : CO allowable emissions per RULE 62-296.401(4)(e)(5), F.A.C. for biological waste combustors.				

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		RULE		
2. Future Effective Date of Allowable Emissions :		13-Nov-2000		
3. Requested Allowable Emissions and Units :		0.49		mg/dscm @ 7%O2
4. Equivalent Allowable Emissions :	0.07	lb/hour	0.30	tons/year
5. Method of Compliance : stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Florida 111(d) Plan for Municipal Waste Combustors imposes compliance deadline of 11/13/00				

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Information Section 3

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :	13-Nov-2000			
3. Requested Allowable Emissions and Units :	205.00	ppmdv @ 7% O2		
4. Equivalent Allowable Emissions :	52.86	lb/hour	231.53	tons/year
5. Method of Compliance : Continuous Emissions Monitor (CEM)				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Florida 111(d) Plan for Municipal Waste Combustors imposes compliance deadline of 11/13/00				

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Information Section 4

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		OTHER		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :		0.02		gr/dscf @12%CO2
4. Equivalent Allowable Emissions :				
	4.63	lb/hour	20.27	tons/year
5. Method of Compliance :				
stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
Limitation imposed by PSD-FL-113				

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Information Section 4

Allowable Emissions 2

1. Basis for Allowable Emissions Code :		RULE		
2. Future Effective Date of Allowable Emissions :		13-Nov-2000		
3. Requested Allowable Emissions and Units :		27.00		mg/dscm @ 7%O2
4. Equivalent Allowable Emissions :				
	3.74	lb/hour	16.39	tons/year
5. Method of Compliance :				
stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
Florida 111(d) Plan for Municipal Waste Combustors imposes compliance deadline of 11/13/00.				

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Information Section 5

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	60.00		ppmdv @12%CO2	
4. Equivalent Allowable Emissions :	21.53	lb/hour	94.29	tons/year
5. Method of Compliance : Continuous Emission Monitor (CEM)				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Limitation imposed by PSD-FL-113 (Note: permit allows minimum of 70% reduction when 60 ppmdvc is not being achieved.)				

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Information Section 5

Allowable Emissions 2

1. Basis for Allowable Emissions Code :		RULE		
2. Future Effective Date of Allowable Emissions :		13-Nov-2000		
3. Requested Allowable Emissions and Units :		29.00		ppmdv @ 7%O2
4. Equivalent Allowable Emissions :				
	10.69	lb/hour	46.81	tons/year
5. Method of Compliance :				
Continuous Emission Monitor (CEM)				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
Florida 111(d) Plan for Municipal Waste Combustors imposes compliance deadline of 11/13/00. (Note: Rule allows minimum of 75% reduction when 29 ppmdvc is not being achieved.)				

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Information Section 6

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		OTHER		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :		70.00		ppmdvc @ 7% O2
4. Equivalent Allowable Emissions :	6.28	lb/hour	27.50	tons/year
5. Method of Compliance : stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Limitation imposed by PSD-FL-113				

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Information Section 7

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		OTHER		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :		0.00		gr/dscf @12%CO2
4. Equivalent Allowable Emissions :				
	0.46	lb/hour	2.03	tons/year
5. Method of Compliance :				
stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
Limitation imposed by PSD-FL-113				

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Information Section 8

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	50.00	ppmdv @ 7%O2		
4. Equivalent Allowable Emissions :	10.50	lb/hour	45.97	tons/year
5. Method of Compliance : stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Limitation imposed by PSD-FL-113				

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Information Section 8

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :	13-Nov-2000			
3. Requested Allowable Emissions and Units :	29.00	ppmdv @ 7% O2		
4. Equivalent Allowable Emissions :	6.09	lb/hour	26.66	tons/year
5. Method of Compliance : stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Florida 111(d) Plan for Municipal Waste Combustors imposes compliance deadline of 11/13/00. (Note: rule allows minimum of 95% reduction when 29 ppmdvc is not being achieved.)				

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Information Section 9

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.00		gr/dscf @12%CO2	
4. Equivalent Allowable Emissions :	0.00	lb/hour	0.00	tons/year
5. Method of Compliance : stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Limitation imposed by PSD-FL-113				

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Information Section 10

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		RULE		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :		70.00		ug/dscm @ 7%O2
4. Equivalent Allowable Emissions :	0.01	lb/hour	0.04	tons/year
5. Method of Compliance : stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Limitation imposed by 62-296.416, F.A.C. (Note: Rule allows for minimum of 80% removal when 70 ug is not being achieved.)				

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Information Section 10

Allowable Emissions 2

1. Basis for Allowable Emissions Code :		RULE		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :		70.00		ug/dscm @ 7% O2
4. Equivalent Allowable Emissions :				
	0.01	lb/hour	0.04	tons/year
5. Method of Compliance :				
stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
Florida 111(d) Plan for Municipal Waste Combustors imposes compliance deadline of 11/13/98. (Note: Rule allows for minimum of 85% removal when 70 ug/dscm is not being achieved.)				

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Information Section 11

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		RULE		
2. Future Effective Date of Allowable Emissions :		13-Nov-2000		
3. Requested Allowable Emissions and Units :		0.04		mg/dscm @ 7% O2
4. Equivalent Allowable Emissions :				
	0.01	lb/hour	0.02	tons/year
5. Method of Compliance :				
stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
Florida 111(d) Plan for Municipal Waste Combustors imposes compliance deadline of 11/13/00.				

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Information Section 5

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :	13-Nov-2000			
3. Requested Allowable Emissions and Units :	29.00	ppmdv @ 7%O2		
4. Equivalent Allowable Emissions :	10.69	lb/hour	46.81	tons/year
5. Method of Compliance : Continuous Emission Monitor (CEM)				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Florida 111(d) Plan for Municipal Waste Combustors imposes compliance deadline of 11/13/00. (Note: Rule allows minimum of 75% reduction when 29 ppmdvc is not being achieved.)				

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Information Section 6

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	70.00	ppmdvc @ 7% O2		
4. Equivalent Allowable Emissions :	6.28	lb/hour	27.50	tons/year
5. Method of Compliance : stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Limitation imposed by PSD-FL-113				

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Information Section 7

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		OTHER		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :		0.00		gr/dscf @12%CO2
4. Equivalent Allowable Emissions :				
	0.46	lb/hour	2.03	tons/year
5. Method of Compliance :				
stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
Limitation imposed by PSD-FL-113				

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Information Section 8

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		OTHER		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :		50.00		ppmdv @ 7%O2
4. Equivalent Allowable Emissions :				
	10.50	lb/hour	45.97	tons/year
5. Method of Compliance :				
stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
Limitation imposed by PSD-FL-113				

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Information Section 8

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	RULE			
2. Future Effective Date of Allowable Emissions :	13-Nov-2000			
3. Requested Allowable Emissions and Units :	29.00	ppmdv @ 7% O2		
4. Equivalent Allowable Emissions :	6.09	lb/hour	26.66	tons/year
5. Method of Compliance : stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Florida 111(d) Plan for Municipal Waste Combustors imposes compliance deadline of 11/13/00. (Note: rule allows minimum of 95% reduction when 29 ppmdvc is not being achieved.)				

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Information Section 9

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.00		gr/dscf @12%CO2	
4. Equivalent Allowable Emissions :	0.00	lb/hour	0.00	tons/year
5. Method of Compliance : stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Limitation imposed by PSD-FL-113				

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Information Section 10

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		RULE		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :		70.00		ug/dscm @ 7%O2
4. Equivalent Allowable Emissions :	0.01	lb/hour	0.04	tons/year
5. Method of Compliance : stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Limitation imposed by 62-296.416, F.A.C. (Note: Rule allows for minimum of 80% removal when 70 ug is not being achieved.)				

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Information Section 10

Allowable Emissions 2

1. Basis for Allowable Emissions Code :		RULE		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :		70.00		ug/dscm @ 7% O2
4. Equivalent Allowable Emissions :	0.01	lb/hour	0.04	tons/year
5. Method of Compliance : stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Florida 111(d) Plan for Municipal Waste Combustors imposes compliance deadline of 11/13/98. (Note: Rule allows for minimum of 85% removal when 70 ug/dscm is not being achieved.)				

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Information Section 11

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		RULE		
2. Future Effective Date of Allowable Emissions :		13-Nov-2000		
3. Requested Allowable Emissions and Units :		0.04		mg/dscm @ 7% O2
4. Equivalent Allowable Emissions :				
	0.01	lb/hour	0.02	tons/year
5. Method of Compliance :				
stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
Florida 111(d) Plan for Municipal Waste Combustors imposes compliance deadline of 11/13/00.				

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		RULE		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :		100.00		ppmdv @ 7% O2
4. Equivalent Allowable Emissions :				
	16.13	lb/hour	70.63	tons/year
5. Method of Compliance :				
Continuous Emission Monitoring System (CEM)				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
CO allowable emissions per RULE 62-296.401(4)(e)(5), F.A.C. for biological waste combustors.				

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		RULE		
2. Future Effective Date of Allowable Emissions :		13-Nov-2000		
3. Requested Allowable Emissions and Units :		0.49		mg/dscm @ 7%O2
4. Equivalent Allowable Emissions :	0.07	lb/hour	0.30	tons/year
5. Method of Compliance : stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Florida 111(d) Plan for Municipal Waste Combustors imposes compliance deadline of 11/13/00				

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Information Section 2

Allowable Emissions 2

1. Basis for Allowable Emissions Code :		OTHER		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :		0.00		gr/dscf @12%CO2
4. Equivalent Allowable Emissions :				
	0.10	lb/hour	0.42	tons/year
5. Method of Compliance :				
stack testign				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
Limitation imposed by PSD-FL-113				

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Information Section 3

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		RULE		
2. Future Effective Date of Allowable Emissions :		13-Nov-2000		
3. Requested Allowable Emissions and Units :		205.00		ppmdv @ 7% O2
4. Equivalent Allowable Emissions :				
	52.86	lb/hour	231.53	tons/year
5. Method of Compliance :				
Continuous Emissions Monitor (CEM)				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
Florida 111(d) Plan for Municipal Waste Combustors imposes compliance deadline of 11/13/00.				

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Information Section 3

Allowable Emissions 2

1. Basis for Allowable Emissions Code :		OTHER		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :		385.00		ppmdv @12%CO2
4. Equivalent Allowable Emissions :				
	99.28	lb/hour	434.86	tons/year
5. Method of Compliance :				
stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
Limitation imposed by PSD-FL-113				

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Information Section 4

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.02		gr/dscf @12%CO2	
4. Equivalent Allowable Emissions :	4.63	lb/hour	20.27	tons/year
5. Method of Compliance : stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Limitation imposed by PSD-FL-113				

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Information Section 4

Allowable Emissions 2

1. Basis for Allowable Emissions Code :		RULE		
2. Future Effective Date of Allowable Emissions :		13-Nov-2000		
3. Requested Allowable Emissions and Units :		27.00		mg/dscm @ 7%O2
4. Equivalent Allowable Emissions :				
	3.74	lb/hour	16.39	tons/year
5. Method of Compliance :				
stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
Florida 111(d) Plan for Municipal Waste Combustors imposes compliance deadline of 11/13/00.				

Emissions Unit Information Section 2
MWC Unit #2

Pollutant Information Section 5

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	60.00		ppmdv @12%CO2	
4. Equivalent Allowable Emissions :	21.53	lb/hour	94.29	tons/year
5. Method of Compliance : Continuous Emission Monitor (CEM)				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Limitation imposed by PSD-FL-113 (Note: permit allows minimum of 70% reduction when 60 ppmdvc is not being achieved.)				

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Information Section 2

Allowable Emissions 2

1. Basis for Allowable Emissions Code :		OTHER		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :		0.00		gr/dscf @12%CO2
4. Equivalent Allowable Emissions :				
	0.10	lb/hour	0.42	tons/year
5. Method of Compliance :				
stack testign				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
Limitation imposed by PSD-FL-113				

Emissions Unit Information Section 1
MWC Unit #1

Pollutant Information Section 3

Allowable Emissions 2

1. Basis for Allowable Emissions Code :		OTHER		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :		385.00		ppmdv @12%CO2
4. Equivalent Allowable Emissions :	99.28	lb/hour	434.86	tons/year
5. Method of Compliance : stack testing				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Limitation imposed by PSD-FL-113				

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
MWC Unit #1

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	15	
2. Basis for Allowable Opacity :	OTHER	
3. Requested Allowable Opacity :		
Normal Conditions :	15	%
Exceptional Conditions :	20	%
Maximum Period of Excess Opacity Allowed :	6	min/hour
4. Method of Compliance : continuous opacity monitor (COM)		
5. Visible Emissions Comment : Limitation imposed by PSD-FL-113		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
MWC Unit #1

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :	10
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	10 %
Exceptional Conditions :	%
Maximum Period of Excess Opacity Allowed :	min/hour
4. Method of Compliance :	
continuous opacity monitor (COM)	
5. Visible Emissions Comment :	
Florida 111(d) Plan for Municipal Waste Combustors imposes compliance deadline of 11/13/00	

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
MWC Unit #2

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	15		
2. Basis for Allowable Opacity :	OTHER		
3. Requested Allowable Opacity :			
Normal Conditions :	15	%	
Exceptional Conditions :	20	%	
Maximum Period of Excess Opacity Allowed :	6	min/hour	
4. Method of Compliance : continuous opacity monitor (COM)			
5. Visible Emissions Comment : Limitation imposed by PSD-FL-113			

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
MWC Unit #2

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :	10
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
Normal Conditions :	10 %
Exceptional Conditions :	%
Maximum Period of Excess Opacity Allowed :	min/hour
4. Method of Compliance :	
continuous opacity monitor (COM)	
5. Visible Emissions Comment :	
Florida 111(d) Plan for Municipal Waste Combustors imposes compliance deadline of 11/13/00	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
MWC Unit #1

Continuous Monitoring System Continuous Monitor 1

1. Parameter Code : VE	2. Pollutant(s):
3. CMS Requirement OTHER	
4. Monitor Information Manufacturer : Land Combustion Model Number : 4500 Serial Number : 30-2055	
5. Installation Date :	01-Jan-1995
6. Performance Specification Test Date :	21-Feb-1995
7. Continuous Monitor Comment : Monitoring requirement imposed by PSD-FL-113	

Continuous Monitoring System Continuous Monitor 2

1. Parameter Code : O2	2. Pollutant(s):
3. CMS Requirement OTHER	
4. Monitor Information Manufacturer : Servomex Model Number : 1400 Serial Number : 04120/B525	
5. Installation Date :	01-Jan-1995
6. Performance Specification Test Date :	21-Feb-1995
7. Continuous Monitor Comment : Monitoring requirement imposed by PSD-FL-113. Inlet Monitor.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
MWC Unit #1

Continuous Monitoring System Continuous Monitor 3

1. Parameter Code : O2	2. Pollutant(s):
3. CMS Requirement OTHER	
4. Monitor Information Manufacturer : Servomex Model Number : 1400 Serial Number : 01420/B530	
5. Installation Date :	01-Jan-1995
6. Performance Specification Test Date :	21-Feb-1995
7. Continuous Monitor Comment : Monitoring requirement imposed by PSD-FL-113. Stack Monitor	

Continuous Monitoring System Continuous Monitor 4

1. Parameter Code : CO2	2. Pollutant(s):
3. CMS Requirement OTHER	
4. Monitor Information Manufacturer : Siemens Model Number : Ultramat 21P Serial Number : X07-017	
5. Installation Date :	01-Jan-1995
6. Performance Specification Test Date :	21-Feb-1995
7. Continuous Monitor Comment : Monitoring requirement imposed by PSD-FL-113. Inlet Monitor	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
MWC Unit #1

Continuous Monitoring System Continuous Monitor 5

1. Parameter Code : CO2	2. Pollutant(s):
3. CMS Requirement OTHER	
4. Monitor Information Manufacturer : Milton-Roy/Fuji Model Number : ZRH-2 Serial Number : N3P4354T	
5. Installation Date : 01-Jan-1995	
6. Performance Specification Test Date : 21-Feb-1995	
7. Continuous Monitor Comment : Monitoring requirement imposed by PSD-FL-113. Stack Monitor.	

Continuous Monitoring System Continuous Monitor 6

1. Parameter Code : TEMP	2. Pollutant(s):
3. CMS Requirement RULE	
4. Monitor Information Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Florida 111(d) Plan for Municipal Waste Combustors imposes compliance deadline of 11/13/00 for continuously monitoring baghouse inlet temperature.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
MWC Unit #1

Continuous Monitoring System Continuous Monitor 7

1. Parameter Code : EM	2. Pollutant(s): SO2
3. CMS Requirement OTHER	
4. Monitor Information Manufacturer : Bovar/Western Research Model Number : 721-M Serial Number : VD-721M-8535-3	
5. Installation Date : 01-Jan-1995	
6. Performance Specification Test Date : 21-Feb-1995	
7. Continuous Monitor Comment : Monitoring requirement imposed by PSD-FL-113. Inlet SO2 Monitor	

Continuous Monitoring System Continuous Monitor 8

1. Parameter Code : EM	2. Pollutant(s): SO2
3. CMS Requirement OTHER	
4. Monitor Information Manufacturer : Bovar/Western Research Model Number : 721-M Serial Number : VD-721M-8635-4	
5. Installation Date : 01-Jan-1995	
6. Performance Specification Test Date : 21-Feb-1995	
7. Continuous Monitor Comment : Monitoring requirement imposed by PSD-FL-113.. Stack SO2 Monitor.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
MWC Unit #1

Continuous Monitoring System Continuous Monitor 9

1. Parameter Code : EM	2. Pollutant(s): CO
3. CMS Requirement OTHER	
4. Monitor Information Manufacturer : Milton Roy Model Number : ZRH2 Serial Number : N3P4354T	
5. Installation Date :	01-Jan-1995
6. Performance Specification Test Date :	21-Feb-1995
7. Continuous Monitor Comment : Monitoring requirement imposed by PSD-FL-113. Stack CO Monitor	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
MWC Unit #2

Continuous Monitoring System Continuous Monitor 1

1. Parameter Code : VE	2. Pollutant(s):
3. CMS Requirement OTHER	
4. Monitor Information Manufacturer : Land Combustion Model Number : 4500 Serial Number : 30-2055	
5. Installation Date :	01-Jan-1995
6. Performance Specification Test Date :	21-Feb-1995
7. Continuous Monitor Comment : Monitoring requirement imposed by PSD-FL-113	

Continuous Monitoring System Continuous Monitor 2

1. Parameter Code : O2	2. Pollutant(s):
3. CMS Requirement OTHER	
4. Monitor Information Manufacturer : Servomex Model Number : 1400 Serial Number : 04120/B528	
5. Installation Date :	01-Jan-1995
6. Performance Specification Test Date :	21-Feb-1995
7. Continuous Monitor Comment : Monitoring requirement imposed by PSD-FL-113. Inlet Monitor.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2

MWC Unit #2

Continuous Monitoring System Continuous Monitor 3

1. Parameter Code : O2	2. Pollutant(s):
3. CMS Requirement OTHER	
4. Monitor Information Manufacturer : Servomex Model Number : 1400 Serial Number : 01420/B527	
5. Installation Date :	01-Jan-1995
6. Performance Specification Test Date :	21-Feb-1995
7. Continuous Monitor Comment : Monitoring requirement imposed by PSD-FL-113. Stack Monitor	

Continuous Monitoring System Continuous Monitor 4

1. Parameter Code : CO2	2. Pollutant(s):
3. CMS Requirement OTHER	
4. Monitor Information Manufacturer : Siemens Model Number : Ultramat 21P Serial Number : X07-013	
5. Installation Date :	01-Jan-1995
6. Performance Specification Test Date :	21-Feb-1995
7. Continuous Monitor Comment : Monitoring requirement imposed by PSD-FL-113. Inlet Monitor	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
MWC Unit #2

Continuous Monitoring System Continuous Monitor 5

1. Parameter Code : CO2	2. Pollutant(s):
3. CMS Requirement OTHER	
4. Monitor Information Manufacturer : Milton-Roy/Fuji Model Number : ZRH-2 Serial Number : N3P4355T	
5. Installation Date : 01-Jan-1995	
6. Performance Specification Test Date : 21-Feb-1995	
7. Continuous Monitor Comment : Monitoring requirement imposed by PSD-FL-113. Stack Monitor.	

Continuous Monitoring System Continuous Monitor 6

1. Parameter Code : TEMP	2. Pollutant(s):
3. CMS Requirement RULE	
4. Monitor Information Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Florida 111(d) Plan for Municipal Waste Combustors imposes compliance deadline of 11/13/00 for continuously monitoring baghouse inlet temperature.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
MWC Unit #2

Continuous Monitoring System Continuous Monitor 7

1. Parameter Code : EM	2. Pollutant(s):
3. CMS Requirement OTHER	
4. Monitor Information Manufacturer : Bovar/Western Research Model Number : 721-M Serial Number : VD-721M-8535-5	
5. Installation Date :	01-Jan-1995
6. Performance Specification Test Date :	21-Feb-1995
7. Continuous Monitor Comment : Monitoring requirement imposed by PSD-FL-113. Inlet SO2 Monitor	

Continuous Monitoring System Continuous Monitor 8

1. Parameter Code : EM	2. Pollutant(s):
3. CMS Requirement OTHER	
4. Monitor Information Manufacturer : Bovar/Western Research Model Number : 721-M Serial Number : VD-721M-8635-6	
5. Installation Date :	01-Jan-1995
6. Performance Specification Test Date :	21-Feb-1995
7. Continuous Monitor Comment : Monitoring requirement imposed by PSD-FL-113. Stack SO2 Monitor.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
MWC Unit #2

Continuous Monitoring System Continuous Monitor 9

1. Parameter Code : EM	2. Pollutant(s):
3. CMS Requirement OTHER	
4. Monitor Information Manufacturer : Milton Roy Model Number : ZRH2 Serial Number : N3P4355T	
5. Installation Date :	01-Jan-1995
6. Performance Specification Test Date :	21-Feb-1995
7. Continuous Monitor Comment : Monitoring requirement imposed by PSD-FL-113. Stack CO Monitor	

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 1

MWC Unit #1

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM : U	SO2 : U	NO2 : U

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

This application is being submitted to clarify ambiguous conditions in the existing Construction Permit only. PSD analysis is not necessary.

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 2

MWC Unit #2

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

[ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM : U	SO2 : U	NO2 : U

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

This application is being submitted to clarify ambiguous conditions in the existing Construction Permit only. PSD analysis is not necessary.

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 1

MWC Unit #1

Supplemental Requirements for All Applications

1. Process Flow Diagram :
2. Fuel Analysis or Specification :
3. Detailed Description of Control Equipment :
4. Description of Stack Sampling Facilities :
5. Compliance Test Report :
6. Procedures for Startup and Shutdown :
7. Operation and Maintenance Plan :
8. Supplemental Information for Construction Permit Application :
9. Other Information Required by Rule or Statue :

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :
11. Alterntive Modes of Operation (Emissions Trading) :

12. Identification of Additional Applicable Requirements :
13. Compliance Assurance Monitoring Plan :
14. Acid Rain Application (Hard-copy Required) : Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) New Unit Exemption (Form No. 62-210.900(1)(a)2.) Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 2

MWC Unit #2

Supplemental Requirements for All Applications

1. Process Flow Diagram :
2. Fuel Analysis or Specification :
3. Detailed Description of Control Equipment :
4. Description of Stack Sampling Facilities :
5. Compliance Test Report :
6. Procedures for Startup and Shutdown :
7. Operation and Maintenance Plan :
8. Supplemental Information for Construction Permit Application :
9. Other Information Required by Rule or Statue :

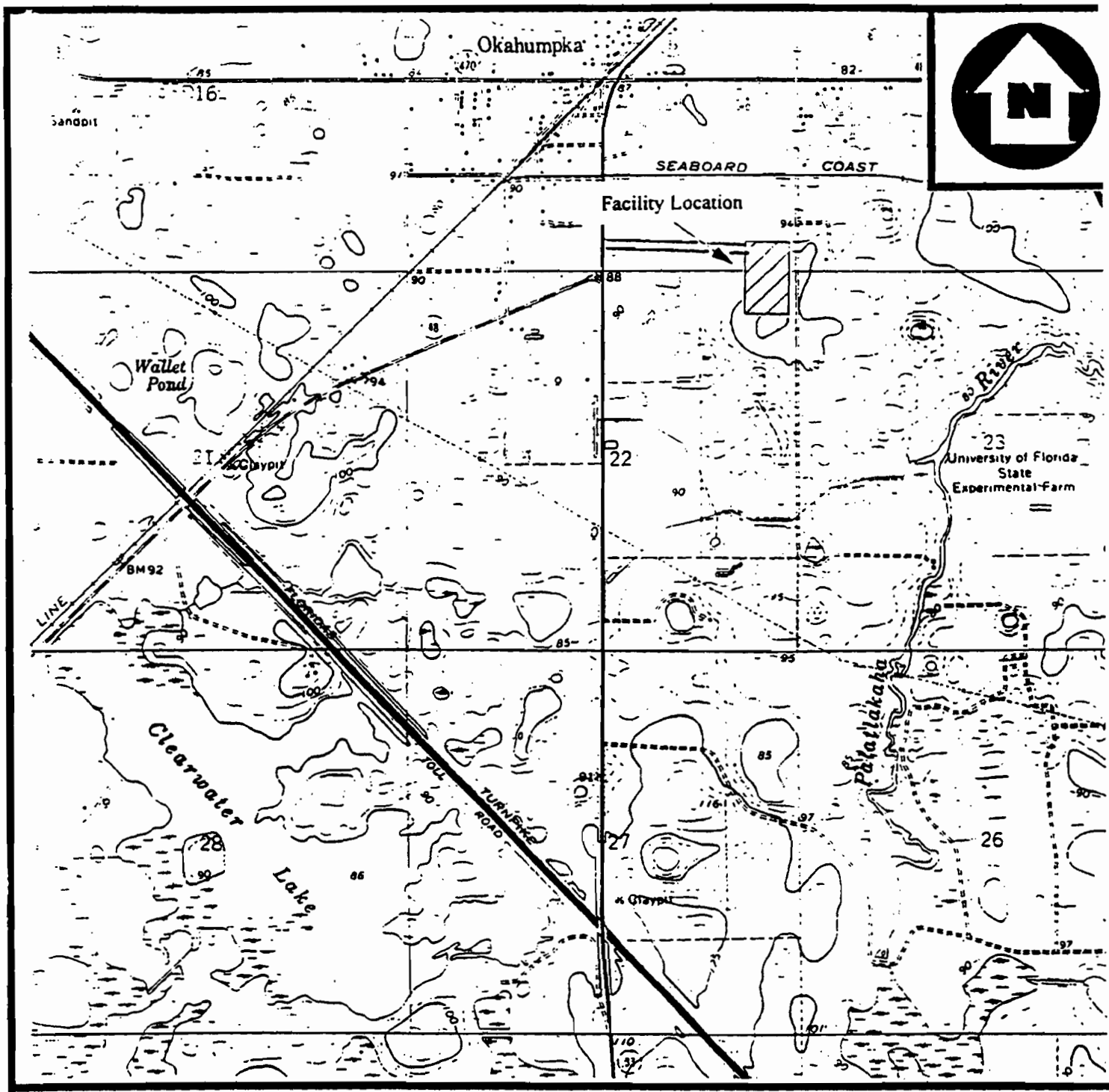
Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :
11. Alterntive Modes of Operation (Emissions Trading) :

12. Identification of Additional Applicable Requirements :
13. Compliance Assurance Monitoring Plan :
14. Acid Rain Application (Hard-copy Required) : Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) New Unit Exemption (Form No. 62-210.900(1)(a)2.) Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

Appendix A

Facility Location Map



BASE MAP IS A PORTION OF THE FOLLOWING 7.5' U.S.G.S. QUADRANGLE(S):
CENTER HILL, FLORIDA 1969

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

QUADRANGLE LOCATION: CENTER HILL, FLORIDA

LOCATION MAP

OGDEN MARTIN SYSTEMS OF LAKE, INC.

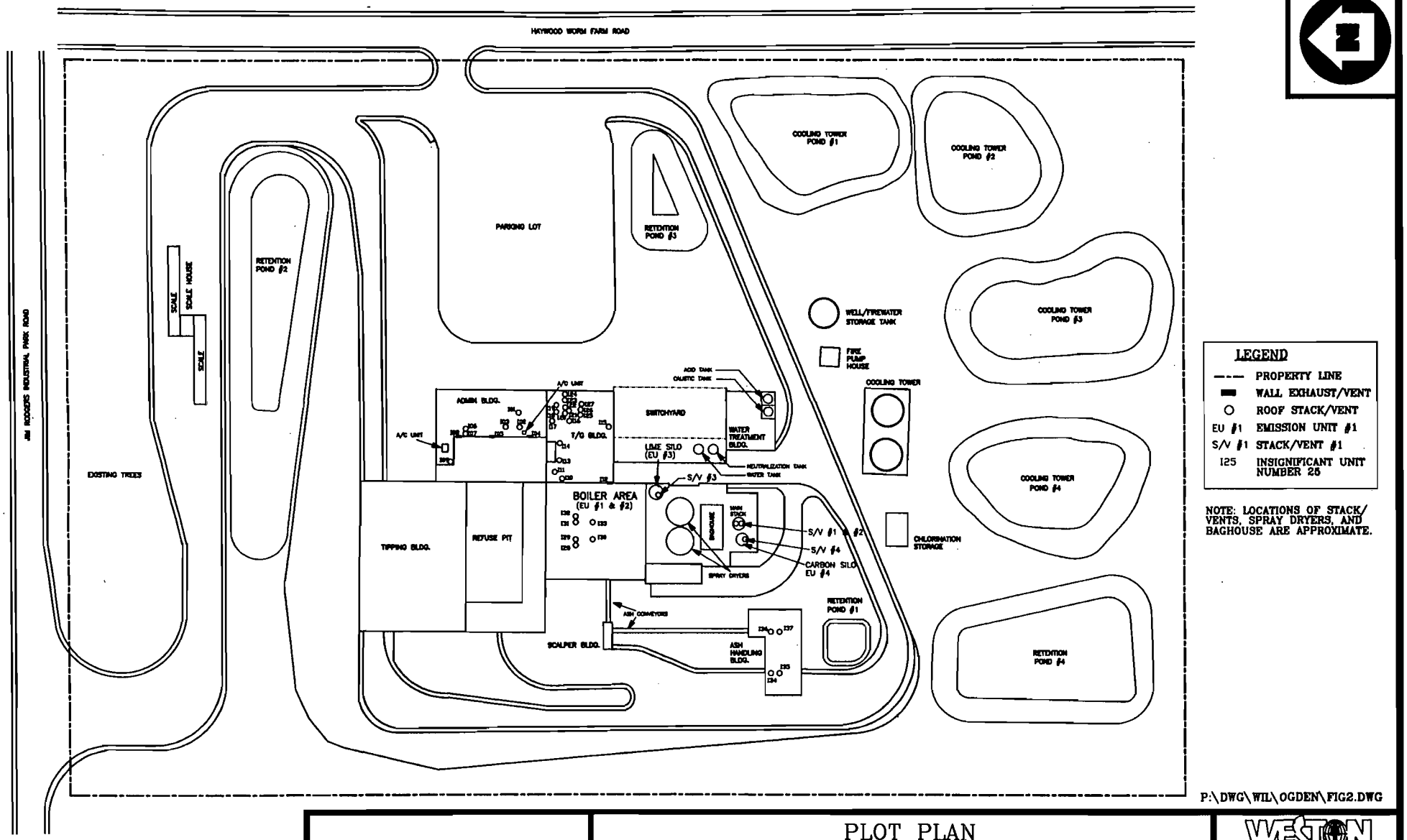
OKAHUMPKA, FLORIDA

WESTON MANAGERS DESIGNERS/CONSULTANTS

DOCUMENT ID: A

Appendix B

Facility Plot Plan



LEGEND

----	PROPERTY LINE
▬	WALL EXHAUST/VENT
○	ROOF STACK/VENT
EU #1	EMISSION UNIT #1
S/V #1	STACK/VENT #1
125	INSIGNIFICANT UNIT NUMBER 25

NOTE: LOCATIONS OF STACK/VENTS, SPRAY DRYERS, AND BAGHOUSE ARE APPROXIMATE.

P:\DWG\WIL\OGDEN\FIG2.DWG

BASED ON ZURN SITE PLAN DATED 6/26/94

0 40 80
SCALE IN FEET

PLOT PLAN
OGDEN MARTIN SYSTEMS OF LAKE, INC.
OKAHUMPKA, FLORIDA

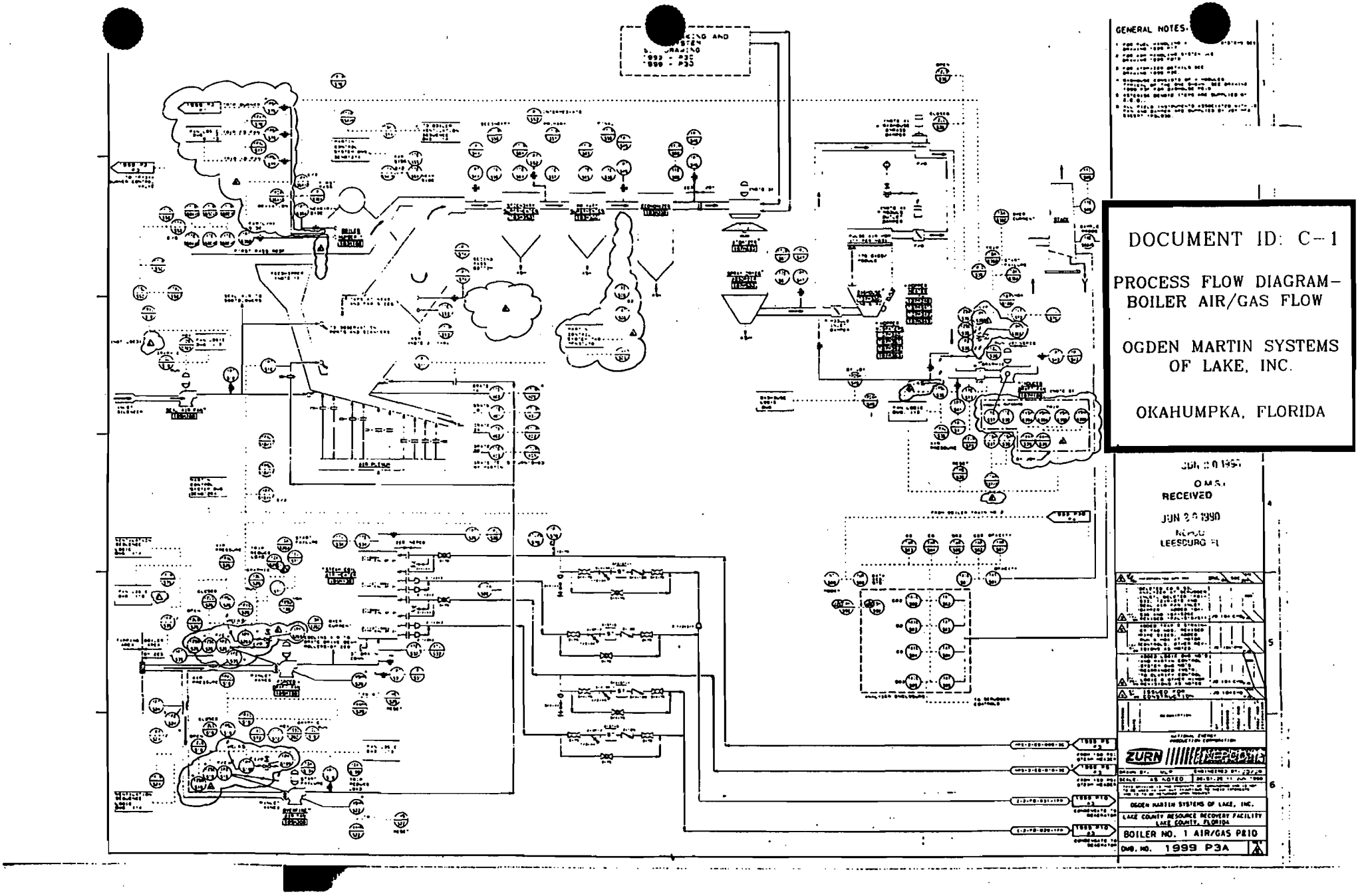
WESTON

FIGURE 2

Appendix C

Process Flow Diagrams

BEST AVAILABLE COPY



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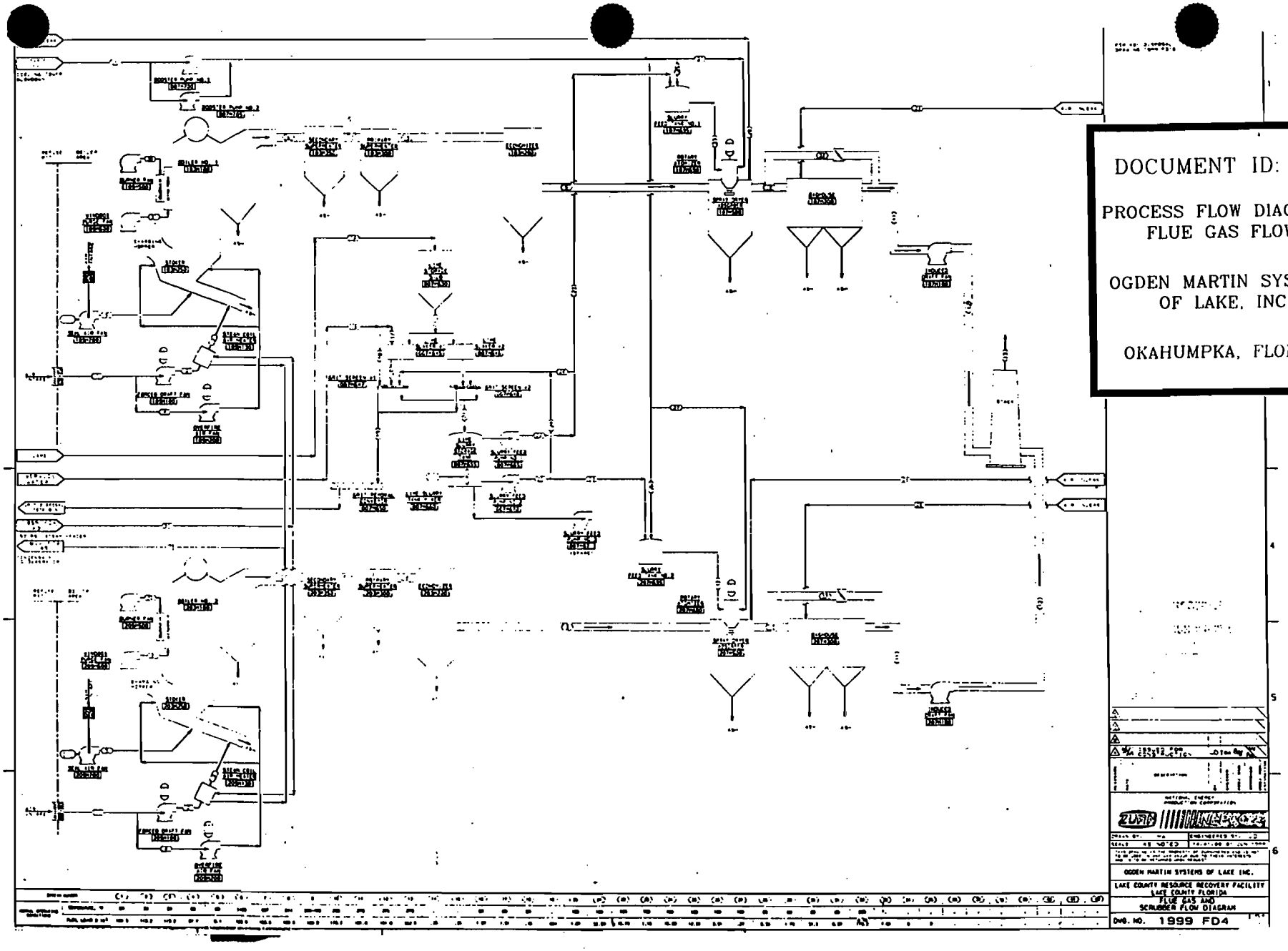

DOCUMENT ID: C-2

PROCESS FLOW DIAGRAM-
FLUE GAS FLOW

OGDEN MARTIN SYSTEMS
OF LAKE, INC.

OKAHUMPKA, FLORIDA

OGDEN MARTIN SYSTEMS OF LAKE INC.
LAKE COUNTY RESOURCE RECOVERY FACILITY
LAKE COUNTY FLORIDA
FLUE GAS AND
SCRUBBER FLOW DIAGRAM
DWG. NO. 1999 FD4

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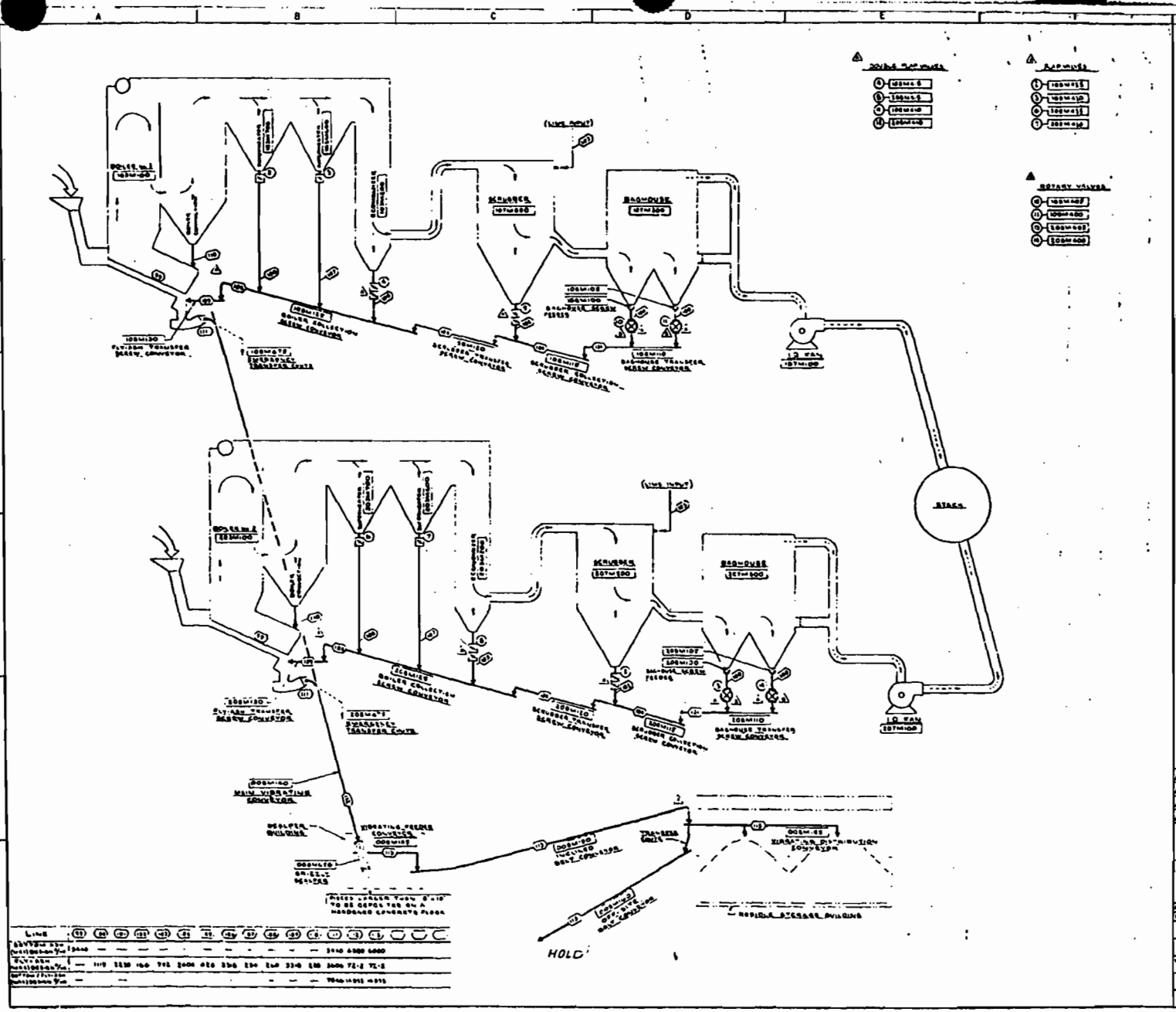

DOCUMENT ID: C-3

PROCESS FLOW DIAGRAM-
ASH FLOW

OGDEN MARTIN SYSTEMS
OF LAKE, INC.

OKAHUMPKA, FLORIDA

ZURN NERCO

OGDEN MARTIN SYSTEMS OF LAKE, INC.
LAKE COUNTY RESOURCE RECOVERY FACILITY
LAKE COUNTY FLORIDA
ASH FLOW DIAGRAM
DWG. NO. 1999 FD 10

Appendix D

Executive Summary of

1998 Stack Test Results

OGDEN ENERGY GROUP, INC.

40 Lane Road
Fairfield, NJ 07007
973 882 9000
Fax 973 882 4156

ENVIRONMENTAL TEST REPORT

VOLUME 1

EXECUTIVE SUMMARY - OEG Report No. 2278

June 3, 1998

PREPARED FOR:	Ogden Martin Systems of Lake, Inc. 3830 Rogers Industrial Park P. O. Box 189 Okahumpka, Florida 34762
PURPOSE:	To Demonstrate Compliance with Florida Department of Environmental Protection, Permit No. AO35-193817 and Rule 62-296.
TEST DATES:	April 21-22, 1998
ASSOCIATED REPORTS:	OEG Report No. 2256
PREPARED BY:	Ogden Energy Group, Inc. Department 38 - CEM/Emission Testing

TABLE OF CONTENTS

1.0 INTRODUCTION

Ogden Martin System of Lake, Inc, (OMSL) performed compliance emission tests at the Lake County Resource Recovery Facility on unit 2 from April 21-22, 1998. The purpose of this test program was to demonstrate compliance with the Florida Department of Environmental Protection (FLDEP), Permit No. AO35-193817, Specific Condition 8 and Rule 62-296 while firing co-mingled biohazardous waste with MSW. The testing was performed by Air Kinetics, Inc. (AKI) in accordance with all procedures in the FLDEP approved test protocol.

The OMSL municipal solid waste combustion facility is located in Okahumpka, FL. The facility is rated at 528 tons of municipal solid waste per day. Unit 2 was tested for mercury emissions at the economizer outlet and stack. Acid gas emissions were tested at the inlet and outlet of the air pollution control equipment. All testing was conducted simultaneously in accordance with procedures required by Florida Department of Environmental Protection (FLDEP) regional office. The emission data presented were collected with Unit 2 firing biohazardous waste at about 2.15 tons/hr (the permit limit for Unit 1 biohazardous waste throughput) as approved by FLDEP prior to testing.

A summary of emission test results for the facility is presented in Section 2.0, Tables 2.1 and 2.2. The AKI report (Volume 2) includes all testing data gathered at the site and all laboratory analytical data.

The test program, as indicated in the Source Test Plan (OEG Report Nos. 2256), is presented in Section 3.0, Table 3.2. Test observers and participants are presented in Table 3.1. The Schedule of Activities is presented in Table 3.3.

2.0 SUMMARY OF RESULTS

TABLE 2.1

SUMMARY OF SOURCE TEST RESULTS - UNIT 2

Pollutant	Replicate 1	Replicate 2	Replicate 3	Average	Permitted Compliance Emission Limits
SDA INLET					
Conc., ppmdv @ 12% CO_2					
Sulfur Dioxide (SO_2)	107.8	35	32.9	58.6	———
Emission Rate, lb/hr					
Mercury (Hg)	0.121	0.0705	0.0575	0.0830	———
Hydrogen Chloride (HCl)	134	116	95.8	115	———
STACK [1]					
Conc., ppmdv @ 7% O_2					
Hydrogen Chloride (HCl)	12.2	11.2	9.71	11.0	50
Carbon Monoxide (CO)	23.9	25.2	16.1	21.7	100
Conc., ppmdv @ 12% CO_2					
Sulfur Dioxide (SO_2)	3.6	3.0	0	2.2	60
Nitrogen Oxides (NO_x)	330.6	239.1	238.2	269.3	385
Conc., gr/dscf @ 7% O_2					
Particulate Matter (PM)	0.0014	0.0014	0.0011	0.0013	0.02
Conc., gr/dscf @ 12% CO_2					
Particulate Matter (PM)	0.00144	0.00135	0.00112	0.00130	0.015
Mercury (Hg)	3.80E-06	8.36E-06	9.32E-06	7.16E-06	3.4E-04
Conc., ug/dscm @ 7% O_2					
Mercury (Hg)	8.47	18.7	21.9	16.4	70
Emission Rate, lb/hr					
Mercury (Hg)	8.91E-04	2.03E-03	2.24E-03	1.72E-03	———
Hydrogen Chloride (HCl)	1.87	1.65	1.57	1.70	———
Removal Efficiency, %					
Sulfur Dioxide (SO_2) [2]	96.7	91.4	100	96.0	≥70
Hydrogen Chloride (HCl) [3]	98.6	98.6	98.4	98.5	≥90
Mercury (Hg) [3]	99.3	97.1	96.1	97.9	≥80
Opacity, %					
Visible Emissions (VE)	0	0	0	0	15

[1] All testing for HCl, SO_2, NO_x, CO, opacity, and particulate done simultaneously.

[2] Based on ppmvd @ 12% CO_2.

[3] Based on lb/hr.

3.0 TEST PROGRAM

TABLE 3.1

TEST PARTICIPANTS

Ogden Energy Group, Inc.

G. J. Aldina

Air Kinetics, Inc.

Tony Wong
Gary Mata
Hung Duong
Wayne Johnson
Thinh Phanh

Florida Department of Environmental Protection

Gary Kuberski

Malcolm Pirnie

John Pacifici

Beatty Environmental Services

Daniel Beatty

TABLE 3.2

TEST PROGRAM

Parameter	Method
Particulate Matter (PM)	U.S. EPA Method 5
Sulfur Dioxide (SO_2) [1]	U.S. EPA Method 6C
Nitrogen Oxides (NO_x)	U.S. EPA Method 7E
Carbon Monoxide (CO)	U.S. EPA Method 10
Visible Emissions (VE)	U.S. EPA Method 9
Hydrogen Chloride (HCl) [1]	U.S. EPA Method 26
Mercury (Hg) [1]	U.S. EPA Method 29

[1] SO_2, HCl and Hg sampled at the inlet and outlet of the air pollution control equipment.

TABLE 3.3

SCHEDULE OF ACTIVITIES

Date/ Time	Unit	Location	Sampling Method	Replicate (Run)	Parameter
4/21/98					
1021-1259	2	Outlet	EPA 29	1	Hg
1025-1258	2	Inlet	EPA 29	1	Hg
1400-1611	2	Outlet	EPA 29	2	Hg
1400-1618	2	Inlet	EPA 29	2	Hg
1646-1917	2	Outlet	EPA 29	3	Hg
1646-1917	2	Inlet	EPA 29	3	Hg
4/22/98					
0915-1140	2	Inlet	EPA 26	1	HCl
0915-1145	2	Outlet	EPA 26	1	HCl
0916-1143	2	Outlet	EPA 5	1	PM
0920-1020	2	Outlet	EPA 9	1	VE
1044-1147	2	Inlet	EPA 3A, 6C	1	O_2, CO_2, SO_2
1044-1147	2	Outlet	EPA 3A, 6C, 7E, 10	1	O_2, CO_2, SO_2, NO_x, CO
1235-1335	2	Outlet	EPA 9	2	VE
1235-1435	2	Inlet	EPA 26	2	HCl
1236-1343	2	Outlet	EPA 3A, 6C, 7E, 10	2	O_2, CO_2, SO_2, NO_x, CO
1236-1343	2	Inlet	EPA 3A, 6C	2	O_2, CO_2, SO_2
1236-1446	2	Outlet	EPA 5	2	PM
1238-1438	2	Outlet	EPA 26	2	HCl
1525-1725	2	Outlet	EPA 26	3	HCl
1525-1726	2	Outlet	EPA 26	3	HCl
1525-1730	2	Outlet	EPA 5	3	PM
1526-1630	2	Outlet	EPA 3A, 6C, 7E, 10	3	O_2, CO_2, SO_2, NO_x, CO
1526-1630	2	Inlet	EPA 3A, 6C	3	O_2, CO_2, SO_2
1530-1630	2	Outlet	EPA 9	3	VE

4.0 OPERATIONAL DATA DURING EMISSION TESTING

4.0 OPERATIONAL DATA DURING EMISSION TESTING

Operational data were collected from process recorders. This confidential data is shown in Volume 3.

5.0 METHODOLOGY

TABLE 5.1

REFERENCES

Parameter	Test Method	Reference
PM	U.S. EPA Method 5	40 CFR 60, App. A
SO_2	U.S. EPA Method 6C	40 CFR 60, App. A
NO_x	U.S. EPA Method 7E	40 CFR 60, App. A
CO	U.S. EPA Method 10	40 CFR 60, App. A
VE	U.S. EPA Method 9	40 CFR 60, App. A
HCl	U.S. EPA Method 26	40 CFR 60, App. A
Hg	U.S. EPA Method 29	40 CFR 60, App. A

Appendix E

40 CFR Subpart Cb

federal register

Monday
August 25, 1997

Part VI

Environmental Protection Agency

40 CFR Part 60

Large Municipal Waste Combustion Units; Emission Guidelines; Final Rule

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 60

[AD–FRL–5879–6]

RIN 2016–AD04

Emission Guidelines for Existing Sources and Standards of Performance for New Stationary Sources: Large Municipal Waste Combustion Units

AGENCY: Environmental Protection Agency (EPA).

ACTION: Direct final rule.

SUMMARY: On December 19, 1995, pursuant to sections 111 and 129 of the Clean Air Act, EPA promulgated emission guidelines applicable to existing municipal waste combustor (MWC) units and new source performance standards applicable to new MWC units. The guidelines and standards are codified at 40 CFR Part 60, subparts Cb and Eb, respectively. *See* 60 FR 65387. On April 8, 1997, the United States Court of Appeals for the District of Columbia Circuit vacated subparts Cb and Eb as they apply to MWC units with the capacity to combust less than or equal to 250 tons per day of municipal solid waste (MSW), and all cement kilns combusting MSW, consistent with their opinion in *Davis County Solid Waste Management and Recovery District* v. *EPA*, 101 F.3d 1395 (D.C. Cir. 1996), *as amended*, 108 F.3d 1454 (D.C. Cir. 1997). As a result, subparts Cb and Eb apply only to MWC units with the capacity to combust more than 250 tons per day of MSW per unit (large MWC units).

This document amends the guidelines and the standards for MWC units to make them consistent with the *Davis* decision and subsequent court vacatur order. The guidelines and standards being amended have remained in effect for large MWC units since December 19, 1995 because the court did not vacate or stay the rules as they apply to these units.

The amended guidelines and standards result in the 1995 rule being applicable only to MWC units with the capacity to combust greater than 250 tons per day of MSW per unit. In this document, these units are referred to as large MWC units or large MWC's.

The amendments affect the applicability of the guidelines and standards, and add supplemental emission limits for four pollutants (hydrogen chloride, sulfur dioxide, nitrogen oxides, and lead) to the guidelines. The amendments do not add any additional emission limits to the standards.

The 1995 guidelines and standards applied to MWC units at plants greater than 35 megagrams per day combustion capacity (approximately 39 tons per day). Because the amendments restrict coverage of the 1995 guidelines and standards to only MWC units with combustion capacities greater than 250 tons per day consistent with the *Davis* decision, and because no petitions to review the 1995 rules as they applied to large MWC units were filed, the Agency does not anticipate receiving adverse comments on these amendments.

DATES: The amendments to the guidelines (subpart Cb) and standards (subpart Eb) are effective October 24, 1997 unless significant material adverse comments are received by September 24, 1997. If significant material adverse comments are received on the amendments to either the guidelines or the standards, the direct final rule receiving comment will be withdrawn.

FOR FURTHER INFORMATION CONTACT: Mr. Walter Stevenson at (919) 541–5264, Combustion Group, Emission Standards Division (MD–13), U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711.

SUPPLEMENTARY INFORMATION: A companion proposal to this direct final rule is being published in today's **Federal Register** and is identical to this direct final rule. Any comments on the amendments should address the proposal. If significant material adverse comments are received by the date specified in the proposed amendments, this direct final rule will be withdrawn and the comments on the proposed amendments will be addressed by EPA in a subsequent final rule. If no significant material adverse comments are received on any provision of this direct final rule, then no further action will be taken on the companion proposal and these amendments will become effective October 24, 1997.

Also being published in today's **Federal Register** are technical amendments to the guidelines and standards. The technical amendments are being published in a similar format to these court-related amendments, with a direct final rule and a companion proposal.

I. Background

On December 20, 1989, under the authority of section 111(b) of the Clean Air Act of 1977, EPA proposed guidelines and standards for MWC units (40 CFR part 60, subparts Ca and Ea, respectively). The subpart Ca guidelines and subpart Ea standards were promulgated on February 11, 1991. The 1990 Amendments to the Clean Air Act included a new section 129 applicable to MWC units, which required EPA to review the subpart Ca guidelines and subpart Ea standards and determine if they were fully consistent with the requirements of the new section. The EPA reviewed the subpart Ca guidelines and subpart Ea standards and concluded that they were not fully consistent with the requirements of the new section 129. The EPA proposed revised guidelines (subpart Cb) and standards (subpart Eb) on September 20, 1994 to make the guidelines and standards consistent with the requirements of section 129. The revised guidelines and standards were adopted as final on December 19, 1995.

The 1995 rules subcategorized the MWC population into two categories of MWC units based on the total capacity of the MWC plants at which the MWC units were located. The large category included all MWC units located at MWC plants with aggregate plant combustion capacities greater than 250 tons per day (actually 225 megagrams per day, which is approximately 249 tons per day); the small category was comprised of all MWC units located at MWC plants with aggregate plant combustion capacities equal to or less than 250 tons per day but larger than 39 tons per day.

Following promulgation, two petitions for review were filed with the U.S. Court of Appeals for the District of Columbia Circuit regarding use of aggregate plant capacity as the basis for initial categorization in the 1995 promulgation. In addition, another petition was filed which challenged the applicability of the rules to cement kilns firing MSW. An initial opinion was issued by the District Court on December 6, 1996. *Davis County Solid Waste Management and Recovery District* v. *EPA*, 101 F.3d 1395 (D.C. Cir. 1996). The EPA filed a petition for rehearing on February 4, 1997, requesting that the court reconsider the remedy portion of its opinion and vacate the guidelines and standards only as they apply to small MWC units (those units with individual units capacity less than or equal to 250 tons per day) and all cement kilns. The court granted EPA's petition in full and issued a revised opinion on March 21, 1997. *Davis County Solid Waste Management and Recovery District* v. *EPA*, 108 F.3d 1454 (D.C. Cir. 1997). On April 8, 1997 the court issued an order implementing its opinion. The final opinion and order, to which this direct final rule responds, remanded to EPA the MWC guidelines and standards for the large category for amendment and vacated the guidelines

and standards as they applied to small units and all cement kilns. The 1995 guidelines have remained in effect since December 19, 1995 and will remain in effect for large MWC units during the amendment of the 1995 rules.

The remand required EPA to recalculate the maximum achievable control technology (MACT) floors for large MWC units consistent with the court's opinion. For existing sources, because the large category now includes only MWC units with combustion capacities greater than 250 tons per day, EPA must remove from the 1995 large category a total of 45 MWC units that have individual unit capacities of less than or equal to 250 tons per day, but that are co-located with other MWC units at MWC plants that have aggregate capacities greater than 250 tons per day. These 45 units are commonly referred to as the Davis class (referencing the name of the Court's opinion that clarifies that EPA must categorize these units as small MWC units). The removal of the Davis class units from the large MWC database used in 1995 to determine the MACT floors results in slightly modified emission guidelines for four pollutants; the other emission guideline limits are unaffected. For new sources, the change in applicability does not affect the calculation of the MACT floors or the resulting standards.

II. Summary of Amendments

A. Change in Applicability

As amended today, the guidelines and standards codified in subparts Cb and Eb, respectively, apply only to MWC units with combustion capacities greater than 250 tons per day per unit. This class of MWC units are referred to as the "large category" and the individual units are referred to as "large MWC units" or "large MWC's." This applicability requirement is different from the 1995 rule, which applied to all MWC units at plants with aggregate plant combustion capacities greater than 39 tons per day.

The amended guidelines and standards cover approximately 87 percent of the MWC capacity covered by the 1995 rule. Consistent with the *Davis* decision and court order, small MWC units (those with unit capacities less than or equal to 250 tons per day) are not covered by the amended rules and will be addressed in a separate rulemaking. Also consistent with the *Davis* decision and court order, the amended rules further exclude cement kilns firing MSW from coverage while EPA reassesses this issue. Should EPA conclude that a rulemaking under section 129 is appropriate for cement kilns combusting MSW, it will propose such regulations in a separate rulemaking.

Although the 1995 rules referred to "225 megagrams per day," which is equivalent to 248 tons per day, the rules as amended by this action refer only to 250 tons per day capacity with no metric conversion to be fully consistent with the language in the court's decision and sections 129(a)(1) (B) and (C) of the Clean Air Act.

These applicability changes amend §§ 60.32b, 60.50b, and 60.59b. Associated with these changes, references to large and small plants have been removed throughout subpart Cb to clarify the amended guidelines.

B. Emission Limits

1. Emission Guidelines (Subpart Cb)

As a result of the recalculation of the MACT floors, emission limits have been revised slightly from the 1995 promulgation. For a detailed discussion of the MACT floor analysis methodology, refer to the 1994 proposal preamble (59 FR 48228), the September 1995 report "Municipal Waste Combustion: Background Information Document for Promulgated Standards and Guidelines—Public Comments and Responses" (EPA-453/R-95-013b), and docket A-90-45.

In the 1995 promulgation, the MACT floors for each pollutant were based on the average emission limitation achieved by the best-performing 25 MWC units (12 percent of the 209 units in the 1995 large category). In the 1995 promulgated emission guidelines, EPA established MACT standards for eight pollutants (60 FR 65401 and 65402). As discussed in the preamble to the proposed and promulgated guidelines, the MACT standards for three pollutants—dioxins/furans, mercury, and cadmium—were more stringent than their respective MACT floors (59 FR 48246, and 60 FR 65401 and 65406), and the MACT standards for five pollutants—lead, particulate matter, sulfur dioxide, hydrogen chloride, and nitrogen oxides—were set at their respective MACT floors (59 FR 48246, and 60 FR 65401 and 65402).

Of the 209 MWC units in the 1995 promulgated large category, as noted previously, 45 are MWC units that are directly affected by the Court's decision (i.e., there currently are 45 MWC units with individual unit capacity less than or equal to 250 tons per day that are located at plants with aggregate capacities greater than 250 tons per day). The Court held that these 45 units must be placed in the small unit category and the large category must be reexamined based on this change. This results in the revised large category containing 164 MWC units (209 − 45=164). The MACT floors for each pollutant for the large category, therefore, must now be based on the average emission limitation achieved by the best-performing 20 MWC units in the large category (12 percent of 164), rather than the 25 units used in the 1995 guidelines.

The EPA calculated the revised MACT floors based on the best-performing 20 units and determined that the MACT floors for seven pollutants have become more stringent than the 1995 MACT floors. However, after comparing the MACT floors for the revised large category to the 1995 emission guideline levels for MWC units at large plants, it was determined that the MACT emission limits would need to change for only four pollutants. The MACT emission limits for the other pollutants do not change as a result of the change in the large category, either because the MACT floor does not change and the emission limit was set at the MACT floor (i.e., particulate matter), or because the 1995 emission limit is more stringent than either the 1995 MACT floor or the revised MACT floor (i.e., mercury, cadmium, dioxins/furans).

The revised MACT floors have led to slightly more stringent MACT limits for lead, sulfur dioxide, hydrogen chloride limits, and the fluidized bed combustor nitrogen oxides limit. These additional limits are being added to the guidelines as supplemental limits, and compliance with the supplemental limits can be no later than 5 years after publication or 3 years after EPA's approval of a State plan incorporating these supplemental limits, whichever is first. The original 1995 limits for these pollutants remain in the guidelines for large MWC units, and compliance with them remains December 19, 2000 or 3 years after EPA's approval of a State plan implementing these guidelines, whichever is first. The supplemental emission limits and their associated compliance dates are as follows:

AMENDED LIMITS FOR SUBPART CB (GUIDELINES)

Pollutant	Compliance by 2000[a]	Compliance by 2002[b]
Lead (mg/dscm)	0.49	0.44
Sulfur Dioxide (ppmv)	31	29
Hydrogen Chloride (ppmv)	31	29
Nitrogen Oxides from Fluidized Bed Combustors (ppmv)	240	180

[a] These limits and all other limits in the 1995 guidelines have remained in force since December 19, 1995, and compliance with them is required by December 19, 2000 or 3 years after approval of a State plan, whichever is first.

[b] These supplemental limits are being added to the guidelines and compliance with them is required by 5 years after promulgation of these amendments or 3 years after approval of a revised State plan incorporating these amendments, whichever is first.

In addition to the more stringent limits described above, the revised MACT floors for nitrogen oxides have led to a slightly less stringent limit for mass-burn waterwall combustors. EPA will approve State plans that include the less restrictive nitrogen oxide limit of 205 ppmv for mass burn waterwall combustors prior to the effective date of these amendments, consistent with the *Davis* decision. Also, the "other" combustor type subcategory for nitrogen oxides that was included in the 1995 guidelines was determined to be unnecessary because all known existing large MWC units fit into the first five subcategories (i.e., mass burn waterwall, mass burn rotary waterwall, refuse-derived fuel, fluidized bed, or mass burn refractory combustors).

The revised emission limits for all four pollutants can be achieved using the same types of air pollution control technology that served as the basis of the 1995 promulgated limits: spray dryer/electrostatic precipitator/carbon injection or spray dryer/fabric filter/carbon injection, and selective noncatalytic reduction for non-refractory combustor types.

2. Standards of Performance (Subpart Eb)

Since no Davis class units were used as the basis for the emission limits in the standards for the large category in the 1995 rules, there is no change to the MACT floor, the technology determined to be MACT, or the MACT emission limits that were established in the 1995 promulgation of the standards.

C. Compliance Times and State Plan Revisions for Existing MWC units

Under section 129(b)(2), emission guidelines are not directly enforceable; rather, States must develop section 111(d)/129 State plans that implement and enforce the guidelines. The State plans implementing the 1995 guidelines for large MWC units were due December 1996. State plans adding the supplemental limits discussed above are due within 1 year after promulgation of these amendments.

All large MWC units must be in compliance with the 1995 emission limits within 3 years of State plan approval or by December 19, 2000, whichever is first, and must be in compliance with the supplemental emission limits promulgated today no later than August 26, 2002 or 3 years after EPA approval of a State plan implementing these limits, whichever is first, consistent with sections 129(b) (2) and (3) of the Clean Air Act.

D. Definitions

The definition of MWC plant in § 60.51b of the 1995 standards referred to units that were "constructed, modified, or reconstructed after September 20, 1994" which contradicts the applicability dates for modified or reconstructed units specified in the applicability section. Under the applicability section, the date of September 20, 1994 is used to determine applicability of the standards to newly constructed units and the date of June 19, 1996 is used to determine applicability of the standards to modified/reconstructed units, consistent with sections 129 (f)(1), (g)(2), and (g)(3) of the Clean Air Act. To correct this, the amended MWC plant definition (§ 60.51b) now refers only to "affected facilities" and directs the reader to the applicability section (§ 60.50b) to determine what constitutes an affected facility. A similar change was made to § 60.31b of the guidelines. The definition of MWC unit in § 60.51b was amended to add language exempting all cement kilns firing MSW, consistent with the *Davis* decision.

E. Other Changes

The heading of subpart Cb was revised to include the date of September 20, 1994. This change was made to correct the subpart Cb heading listed in the introduction to part 60 which erroneously included the date of December 19, 1995. The heading of subpart Eb and the language of § 60.52b(c)(1) were amended to avoid confusion regarding the applicability to modified or reconstructed units.

III. Judicial Review

Under section 307(b)(1) of the Clean Air Act, judicial review of the actions taken by these amendments only is available on the filing of a petition for review in the U.S. Court of Appeals for the District of Columbia Circuit within 60 days of today's publication of this action. Under section 307(b)(2) of the Clean Air Act, the requirements that are subject to today's notice may not be challenged later in civil or criminal proceedings brought by EPA to enforce these requirements.

Under section 307(d)(7) of the Clean Air Act, only an objection to a rule or procedure raised with reasonable specificity during the period for public comment or public hearing may be raised during judicial review. Public comments on the notice proposing these amendments must be submitted to docket A-90-45/Section VIII-D (see **DATES, ADDRESSES,** and **SUPPLEMENTARY INFORMATION** of the proposal notice published elsewhere in today's **Federal Register** for more details). As discussed under the **SUPPLEMENTARY INFORMATION** section of this direct final rule and also as discussed in the proposal notice, if significant material adverse comments are received on the companion proposal, this direct final rule will be withdrawn and the comments received on the proposal will be addressed in a separate rulemaking.

IV. Administrative Requirements

A. Docket

The docket is an organized and complete file of all the information considered in the development of this rulemaking. The principal purposes of the docket are: (1) To allow interested parties to identify and locate documents so that they can effectively participate in the rulemaking process; and (2) to serve as the record in case of judicial review, except for interagency review material. The docket number for this rulemaking is A-90-45. Docket No. A-89-08 also includes background information for this rulemaking and supported the proposal and

promulgation of the subpart Ca guidelines and subpart Ea standards. Docket No. A-89-08 has been incorporated by reference. Refer to the companion proposal in this Federal Register for docket address information.

B. Paperwork Reduction Act

Today's action does not impose any new information collection burden. Today's action reduces the coverage of the 1995 standards and the burden of the 1995 standards. The Office of Management and Budget (OMB) has previously approved the information collection requirements contained in these regulations under the provisions of the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. and has assigned OMB control number 2060-0210 (EPA ICR 1506.07). Copies of the ICR document(s) may be obtained from Sandy Farmer, OPPE, Regulatory Information Division; EPA; 401 M St., SW. (mail code 2137); Washington, DC 20460 or by calling (202) 260-2740. Include the ICR and/or OMB number in any correspondence.

C. Executive Order 12866

Under Executive Order 12866 (58 FR 51735, October 4, 1993), EPA must determine whether the regulatory action is "significant" and, therefore, subject to OMB review and the requirements of the Executive Order. The EPA considered the 1995 guidelines and standards to be significant and the rules were reviewed by OMB in 1995 (see 60 FR 65405). The amendments issued today do not result in any additional control requirements and this regulatory action is considered "not significant" under Executive Order 12866.

D. Unfunded Mandates Act

Under section 202 of the Unfunded Mandates Reform Act of 1995 ("Unfunded Mandates Act"), signed into law on March 22, 1995, EPA must prepare a statement to accompany any rule where the estimated costs to State, local, or tribal governments, or to the private sector will be $100 million or more in any 1 year. Section 203 requires EPA to establish a plan for informing and advising any small governments that may be significantly impacted by the rule. An unfunded mandates statement was prepared and published in the 1995 promulgation notice (see 60 FR 65405 to 65412).

The EPA has determined that these amendments do not include any new Federal mandates. Therefore, the requirements of the Unfunded Mandates Act do not apply to this direct final rule.

E. Regulatory Flexibility Act

Section 605 of the RFA requires Federal agencies to give special consideration to the impacts of regulations on small entities, which are small businesses, small organizations, and small governments. During the 1995 rulemaking, EPA estimated that few, if any, small entities would be affected by the promulgated guidelines and standards and, therefore, a regulatory flexibility analysis was not required (see 60 FR 65413). The rules as amended today do not establish any new requirements; therefore, pursuant to the provisions of 5 U.S.C. 605(b), EPA certifies that the amendments to the guidelines and standards will not have a significant impact on a substantial number of small entities, and a regulatory flexibility analysis is not required.

F. Submission to Congress and the Comptroller General

Under 5 U.S.C. §801(a)(1)(A), as added by the Small Business Regulatory Enforcement Fairness Act (SBREFA) of 1996, EPA submitted a report containing these amendments and other required information to the U.S. Senate, the U.S. House of Representatives, and the Comptroller General of the United States prior to publication of these rules in today's Federal Register. These amendments are not a "major rule" as defined by 5 U.S.C. 804(2) and a SBREFA analysis is not required.

List of Subjects in 40 CFR Part 60

Environmental Protection, Air pollution control, Intergovernmental relations, Reporting and recordkeeping requirements.

Dated: August 15, 1997.

Carol M. Browner,

Administrator.

For reasons set out in the preamble, title 40, chapter I, of the Code of Federal Regulations is amended as follows:

PART 60—[AMENDED]

1. The authority citation for part 60 continues to read as follows:

Authority: 42 U.S.C. 7401, 7411, 7414, 7416, 7429, and 7601.

2. Revise the heading for subpart Cb to read as follows:

Subpart Cb—Emission Guidelines and Compliance Times for Large Municipal Waste Combustors That Are Constructed on or Before September 20, 1994

3. In §60.31b revise the definition of "Municipal waste combustor plant" to read as follows:

§60.31b Definitions.

* * * * *

Municipal waste combustor plant means one or more designated facilities (as defined in §60.32b) at the same location.

* * * * *

4. Amend §60.32b as follows:

a. In paragraph (b)(2) remove the words "10 megagrams" and add, in their place, the words "11 tons";

b. Revise paragraph (a) and the introductory text of paragraph (b), and add new paragraph (m) to read as follows:

§60.32b Designated facilities.

(a) The designated facility to which these guidelines apply is each municipal waste combustor unit with a combustion capacity greater than 250 tons per day of municipal solid waste for which construction was commenced on or before September 20, 1994.

(b) Any municipal waste combustion unit that is capable of combusting more than 250 tons per day of municipal solid waste and is subject to a federally enforceable permit limiting the maximum amount of municipal solid waste that may be combusted in the unit to less than or equal to 11 tons per day is not subject to this subpart if the owner or operator:

* * * * *

(m) Cement kilns firing municipal solid waste are not subject to this subpart.

5. Amend §60.33b as follows:

a. In paragraphs (a)(1)(i), (a)(2)(i), (a)(2)(iii), (b)(1)(i), (b)(2)(i), and (c)(1) introductory text remove the phrase "located within a large municipal waste combustor plant";

b. In paragraphs (a)(1)(iii) and (a)(3) remove the phrase "located within a small or large municipal waste combustor plant";

c. Remove and reserve paragraphs (a)(1)(ii), (a)(2)(ii), (a)(2)(iv), (b)(1)(ii), (b)(2)(ii), and (c)(2);

d. In paragraph (d) introductory text remove the phrase "located within large municipal waste combustor plants";

e. In table 1, referenced in paragraph (d) introductory text, remove the phrase "AT LARGE MUNICIPAL WASTE COMBUSTOR PLANTS" from the title; remove the mass burn waterwall nitrogen oxides emission limit of "200" and add, in its place, the emission limit of "205"; remove the last line of the table "Other[b] 200"; and remove the footnote "[b] Excludes mass burn refractory municipal waste combustors.";

f. In paragraph (d)(1)(i) remove the phrase "An owner or operator of a large

municipal" and add, in its place, the phrase "The owner or operator of a municipal";

g. In table 2, referenced in paragraph (d)(1)(iii), remove the title "NITROGEN OXIDES LIMITS FOR EXISTING DESIGNATED FACILITIES INCLUDED IN AN EMISSIONS AVERAGING PLAN AT LARGE MUNICIPAL WASTE COMBUSTOR PLANTS" and add, in its place, the title "NITROGEN OXIDES LIMITS FOR EXISTING DESIGNATED FACILITIES INCLUDED IN AN EMISSIONS AVERAGING PLAN AT A MUNICIPAL WASTE COMBUSTOR PLANT[a]"; remove the mass burn waterwall nitrogen oxides emission limit of "180" and add, in its place, the emission limit of "185"; remove the superscript "[a]" from the end of the heading of the second column and add, in its place, the superscript "[b]"; remove the line "Other[b] 180" from the table; remove footnote b; redesignate footnote "[a]" as "[b]"; and add the footnote "[a] mass burn refractory municipal waste combustors and other MWC technologies not listed above may not be included in an emissions averaging plan."; and

h. Revise paragraph (d)(1)(i)(B), and add paragraphs (a)(4), (b)(3), and (d)(3) to read as follows:

§ 60.33b Emission guidelines for municipal waste combustor metals, acid gases, organics, and nitrogen oxides.

(a) * * *

(4) For approval, a State plan shall be submitted by August 25, 1998 and shall include an emission limit for lead at least as protective as the emission limit for lead specified in this paragraph. The emission limit for lead contained in the gases discharged to the atmosphere from a designated facility is 0.44 milligrams per dry standard cubic meter, corrected to 7 percent oxygen.

(b) * * *

(3) For approval, a State plan shall be submitted by August 25, 1998 and shall include emission limits for sulfur dioxide and hydrogen chloride at least as protective as the emission limits specified in paragraphs (b)(3)(i) and (b)(3)(ii) of this section.

(i) The emission limit for sulfur dioxide contained in the gases discharged to the atmosphere from a designated facility is 29 parts per million by volume or 25 percent of the potential sulfur dioxide emission concentration (75-percent reduction by weight or volume), corrected to 7 percent oxygen (dry basis), whichever is less stringent. Compliance with this emission limit is based on a 24-hour daily geometric mean.

(ii) The emission limit for hydrogen chloride contained in the gases discharged to the atmosphere from a designated facility is 29 parts per million by volume or 5 percent of the potential hydrogen chloride emission concentration (95-percent reduction by weight or volume), corrected to 7 percent oxygen (dry basis), whichever is less stringent.

* * * * *

(d) * * *

(1) * * *

(i) * * *

(B) Mass burn refractory municipal waste combustor units and other municipal waste combustor technologies not listed in paragraph (d)(1)(iii) of this section may not be included in the emissions averaging plan.

* * * * *

(3) For approval, a State plan shall be submitted by August 25, 1998 and shall include emission limits for nitrogen oxides from fluidized bed combustors at least as protective as the emission limits listed in paragraphs (d)(3)(i) and (d)(3)(ii) of this section.

(i) The emission limit for nitrogen oxides contained in the gases discharged to the atmosphere from a designated facility that is a fluidized bed combustor is 180 parts per million by volume, corrected to 7 percent oxygen.

(ii) If a State plan allows nitrogen oxides emissions averaging as specified in paragraphs (d)(1)(i) through (d)(1)(v) of this section, the emission limit for nitrogen oxides contained in the gases discharged to the atmosphere from a designated facility that is a fluidized bed combustor is 165 parts per million by volume, corrected to 7 percent oxygen.

§ 60.34b [Amended]

6. In § 60.34b(a) remove the phrase "located within a small or large municipal waste combustor plant".

§ 60.35b [Amended]

7. In § 60.35b remove the phrase "located within small or large municipal waste combustor plants".

§ 60.38b [Amended]

8. In § 60.38b remove the phrase "at large municipal waste combustor plants" from paragraph (b), and remove and reserve paragraph (c).

9. Amend § 60.39b as follows:

a. In paragraphs (c)(1) introductory text and (c)(4)(ii) remove the phrase "located within large municipal waste combustor plants";

b. In paragraph (c)(2) remove the phrase "located within a large municipal waste combustor plant";

c. Remove and reserve paragraphs (c)(3) and (c)(4)(i);

d. In paragraph (c)(4)(iii) introductory text remove the phrase "located within small or large municipal waste combustor plants";

e. In paragraph (c)(5) remove the phrase "that are located within a large municipal waste combustor plant"; and

f. Revise the first sentence of paragraph (b), revise paragraph (d), and add paragraphs (e) and (f) to read as follows:

§ 60.39b Reporting and recordkeeping guidelines and compliance schedules.

* * * * *

(b) Not later than December 19, 1996, each State in which a designated facility is located shall submit to the EPA Administrator a plan to implement and enforce all provisions of this subpart except those specified under § 60.33b (a)(4), (b)(3), and (d)(3). * * *

* * * * *

(d) In the event no plan for implementing the emission guidelines is approved by EPA, all designated facilities meeting the applicability requirements under § 60.32b shall be in compliance with all of the guidelines, except those specified under § 60.33b (a)(4), (b)(3), and (d)(3), no later than December 19, 2000.

(e) Not later than August 25, 1998, each State in which a designated facility is operating shall submit to the EPA Administrator a plan to implement and enforce all provisions of this subpart specified in § 60.33b (a)(4), (b)(3), and (d)(3).

(f) In the event no plan for implementing the emission guidelines is approved by EPA, all designated facilities meeting the applicability requirements under § 60.32b shall be in compliance with all of the guidelines, including those specified under § 60.33b (a)(4), (b)(3), and (d)(3), no later than August 26, 2002.

10. Revise the heading for subpart Eb to read as follows:

Subpart Eb—Standards of Performance for Large Municipal Waste Combustors for Which Construction Is Commenced After September 20, 1994 or for Which Modification or Reconstruction Is Commenced After June 19, 1996

11. Amend § 60.50b as follows:

a. In paragraph (b)(2) remove the words "10 megagrams" and add, in their place, the words "11 tons";

b. Revise paragraphs (a) and (b) introductory text, and add paragraph (p) to read as follows:

§ 60.50b Applicability and delegation of authority.

(a) The affected facility to which this subpart applies is each municipal waste combustor unit with a combustion capacity greater than 250 tons per day of municipal solid waste for which construction is commenced after September 20, 1994 or for which modification or reconstruction is commenced after June 19, 1996.

(b) Any waste combustion unit that is capable of combusting more than 250 tons per day of municipal solid waste and is subject to a federally enforceable permit limiting the maximum amount of municipal solid waste that may be combusted in the unit to less than or equal to 11 tons per day is not subject to this subpart if the owner or operator:

* * * * *

(p) Cement kilns firing municipal solid waste are not subject to this subpart.

12. Amend § 60.51b to revise paragraph (1) of the "Municipal waste combustor, MWC, or municipal waste combustor unit" definition and to revise the "Municipal waste combustor plant" definition to read as follows:

§ 60.51b Definitions.

* * * * *

Municipal waste combustor, MWC, or municipal waste combustor unit (1) Means any setting or equipment that combusts solid, liquid, or gasified municipal solid waste including, but not limited to, field-erected incinerators (with or without heat recovery), modular incinerators (starved-air or excess-air), boilers (i.e., steam generating units), furnaces (whether suspension-fired, grate-fired, mass-fired, air curtain incinerators, or fluidized bed-fired), and pyrolysis/combustion units. Municipal waste combustors do not include pyrolysis/combustion units located at a plastics/rubber recycling unit (as specified in § 60.50b(m)). Municipal waste combustors do not include cement kilns firing municipal solid waste (as specified in § 60.50b(p)). Municipal waste combustors do not include internal combustion engines, gas turbines, or other combustion devices that combust landfill gases collected by landfill gas collection systems.

* * * * *

Municipal waste combustor plant means one or more affected facilities (as defined in § 60.50b) at the same location.

* * * * *

13. In § 60.52b(c)(1) revise the first sentence to read as follows:

§ 60.52b Standards for municipal waste combustor metals, acid gases, organics, and nitrogen oxides.

* * * * *

(c) * * *

(1) On and after the date on which the initial performance test is completed or is required to be completed under § 60.8 of subpart A of this part, no owner or operator of an affected facility for which construction, modification or reconstruction commences on or before November 20, 1997 shall cause to be discharged into the atmosphere from that affected facility any gases that contain dioxin/furan emissions that exceed 30 nanograms per dry standard cubic meter (total mass), corrected to 7 percent oxygen, for the first 3 years following the date of initial startup. * * *

* * * * *

§ 60.59b [Amended]

14. In § 60.59b paragraphs (a) introductory text and (b) introductory text remove the phrase "located at a municipal waste combustor plant", and remove the words "35 megagrams" and add, in their place, the words "250 tons".

[FR Doc. 97-22369 Filed 8-22-97; 8:45 am]
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Federal Register

Monday
August 25, 1997

Part VII

Environmental Protection Agency

40 CFR Part 60

Emission Guidelines for Existing Sources and Standards of Performance for New Stationary Sources: Large Municipal Waste Combustion Units; Final Rule

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 60

[AD–FRL–5879–4]

RIN 2016–AD04

Emission Guidelines for Existing Sources and Standards of Performance for New Stationary Sources: Large Municipal Waste Combustion Units

AGENCY: Environmental Protection Agency (EPA).

ACTION: Direct final rule.

SUMMARY: This action amends the emission guidelines (subpart Cb) and the standards of performance (subpart Eb) for municipal waste combustion (MWC) units. These amendments are companion amendments to the court-ordered remand amendments published elsewhere in this Federal Register. These amendments are being made to improve the clarity of subparts Cb and Eb, and to make technical corrections that have been brought to EPA's attention since the December 19, 1995 promulgation.

DATES: These amendments to the guidelines (subpart Cb) and standards (subpart Eb) are effective October 24, 1997 unless significant material adverse comments are received by September 24, 1997. If significant material adverse comments are received on the amendments to either the guidelines or the standards, the direct final rule receiving comment will be withdrawn. In addition, the effective date for amendments for §§ 60.17, 60.23, 60.24, 60.30, and subpart Ca in a final rule published on December 19, 1995 at 60 FR 65387 is established as December 19, 1995.

FOR FURTHER INFORMATION CONTACT: Mr. Walter Stevenson at (919) 541–5264, Combustion Group, Emission Standards Division (MD–13), U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711.

SUPPLEMENTARY INFORMATION: A companion proposal to this direct final rule is being published in today's Federal Register and is identical to this direct final rule. Any comments on the amendments should address that proposal. If significant material adverse comments are received on the proposed amendments by the date specified in the proposed amendments, this direct final rule will be withdrawn and the comments on the proposed amendments will be addressed by EPA in a subsequent final rule. If no significant material adverse comments are received on any provision of the companion proposal, then no further action will be taken on the proposal and these amendments will become effective October 24, 1997.

Also being published in today's Federal Register are a separate direct final rule and proposal amending the guidelines and standards in response to specific court-mandated changes, consistent with the decision of the U.S. Court of Appeals in *Davis County Solid Waste Management and Recovery District* v. *EPA*, 101 F.3d 1395 (D.C. Cir. 1996), *as amended*, 108 F.3d 1454 (D.C. Cir. 1997), and the court's vacatur order issued on April 8, 1997. Refer to the separate court-related direct final rule for more background information regarding the history of these subparts and the court opinion.

The amendments contained herein provide additional clarification to the language of the subparts beyond the clarifications included in the separate court-related amendments. In addition, these amendments include corrections to cross-references and typographical errors in the December 19, 1995 promulgation, and make technical corrections that have been brought to EPA's attention since 1995.

I. Summary of Amendments

The amendments in this direct final rule are primarily to improve the readability of the guidelines and standards reflecting revisions related to the court's opinion. These modifications include overall changes to the language used, changes to the definition section, the inclusion of Method 3A in the performance testing options, the addition of a refuse-derived fuel heating value, clarification of the fugitive ash annual testing requirements, and other miscellaneous amendments.

A. Clarification of Language

To reflect the change in applicability from a plant basis to unit basis as a result of the *Davis* decision and subsequent vacatur order, references to small and large plants are removed throughout the rules. In some cases, this change entails removing and reserving entire paragraphs if the entire paragraph addressed small plants.

The lower size cut-off has been revised from 35 megagrams per day plant capacity to 250 tons per day unit capacity. In addition, all capacity designations have been changed to "tons per day" instead of "megagrams per day" to be consistent with the 250 tons per day lower size cut-off specified by the court for large MWC units.

B. Definitions

Several definitions are no longer needed and have been removed, including the definitions of municipal waste combustor plant capacity, large municipal waste combustor plant, and small municipal waste combustor plant. These changes are included in § 60.51b.

C. Performance Test Methods

It was intended that EPA Test Methods 3, 3A, or 3B, as applicable, be specified for use in measuring diluent gas during performance testing or with continuous monitoring systems. The 1995 rule only listed Method 3 for some pollutants and listed Methods 3A or 3B for other pollutants. This change is included in § 60.58b.

D. Refuse-Derived Fuel Heating Value

To correct an oversight in the 1995 rules, a separate heating value for combustors firing refuse-derived fuel (RDF) has been added to take into consideration the greater specific heat of RDF. The heating value promulgated in 1995 remains the same for non-RDF.

E. Fugitive Ash Annual Test Requirements

To clarify that fugitive emissions from ash handling must be tested on an annual basis, a new paragraph has been added to § 60.58b, and cross references have been corrected, consistent with EPA's intent that testing be done annually (see 60 FR 65394 and 65400).

F. Miscellaneous Changes

The remaining changes have been made to correct typographical errors, to clarify, and to improve readability.

II. Judicial Review

Under section 307(b)(1) of the Clean Air Act, judicial review of the actions taken by these amendments only is available on the filing of a petition for review in the U.S. Court of Appeals for the District of Columbia Circuit within 60 days of today's publication of this action. Under section 307(b)(2) of the Clean Air Act, the requirements that are subject to today's notice may not be challenged later in civil or criminal proceedings brought by EPA to enforce these requirements.

Under section 307(d)(7) of the Clean Air Act, only an objection to a rule or procedure raised with reasonable specificity during the period for public comment or public hearing may be raised during judicial review. Public comments on the notice proposing these amendments must be submitted to docket A–90–45/Section VIII–E (see DATES, ADDRESSES, and SUPPLEMENTARY INFORMATION of

the proposal notice published elsewhere in today's Federal Register for more details). As discussed under the SUPPLEMENTARY INFORMATION section of this direct final promulgation notice and the proposal notice, if significant material adverse comments are received on the companion proposal, this direct final rule will be withdrawn and the comments received on the proposal will be addressed in a separate rulemaking.

III. Administrative Requirements

A. Docket

The docket is an organized and complete file of all the information considered in the development of this rulemaking. The principal purposes of the docket are: (1) to allow interested parties to identify and locate documents so that they can effectively participate in the rulemaking process; and (2) to serve as the record in case of judicial review, except for interagency review material. The docket number for this rulemaking is A–90–45. Docket No. A–89–08 also includes background information for this rulemaking and supported the proposal and promulgation of the subpart Ca guidelines and subpart Ea standards. Docket No. A–89–08 has been incorporated by reference. Refer to the companion proposal in this Federal Register for docket address information.

B. Paperwork Reduction Act

Today's action does not impose any new information collection burden. The Office of Management and Budget (OMB) has previously approved the information collection requirements contained in these regulations under the provisions of the Paperwork Reduction Act, 44 U.S.C. 3501 *et seq.* and has assigned OMB control number 2060–0210 (EPA ICR 1506.07). Copies of the ICR document(s) may be obtained from Sandy Farmer, OPPE Regulatory Information Division; EPA; 401 M St., SW. (mail code 2137); Washington, DC 20460 or by calling (202) 260–2740. Include the ICR and/or OMB number in any correspondence.

C. Executive Order 12866

Under Executive Order 12866 (58 FR 51735, October 4, 1993), EPA must determine whether the regulatory action is "significant" and, therefore, subject to OMB review and the requirements of the Executive Order. The EPA considered the 1995 guidelines and standards to be significant and the rules were reviewed by OMB in 1995 (see 60 FR 65405). The amendments issued today do not result in any additional control requirements and this regulatory action is considered "not significant" under Executive Order 12866.

D. Unfunded Mandates Act

Under section 202 of the Unfunded Mandates Reform Act of 1995 ("Unfunded Mandates Act"), signed into law on March 22, 1995, EPA must prepare a statement to accompany any rule where the estimated costs to State, local, or tribal governments, or to the private sector will be $100 million or more in any 1 year. Section 203 requires EPA to establish a plan for informing and advising any small governments that may be significantly impacted by the rule. An unfunded mandates statement was prepared and published in the 1995 promulgation notice (see 60 FR 65405 to 65412).

The EPA has determined that these amendments do not include any new Federal mandates. Therefore, the requirements of the Unfunded Mandates Act do not apply to this direct final rule.

E. Regulatory Flexibility Act

Section 605 of the RFA requires Federal agencies to give special consideration to the impacts of regulations on small entities, which are small businesses, small organizations, and small governments. During the 1995 rulemaking, EPA estimated that few, if any, small entities would be affected by the promulgated guidelines and standards and, therefore, a regulatory flexibility analysis was not required (see 60 FR 65413). The rules as amended today would not establish any new requirements; therefore, pursuant to the provisions of 5 U.S.C. 605(b), EPA certifies that the amendments to the guidelines and standards will not have a significant impact on a substantial number of small entities, and a regulatory flexibility analysis is not required.

F. Submission to Congress and the Comptroller General

Under 5 U.S.C. § 801(a)(1)(A), as added by the Small Business Regulatory Enforcement Fairness Act (SBREFA) of 1996, EPA submitted a report containing these amendments and other required information to the U.S. Senate, the U.S. House of Representatives, and the Comptroller General of the United States prior to publication of these rules in today's Federal Register. These amendments are not a "major rule" as defined by 5 U.S.C. 804(2) and a SBREFA analysis is not required.

IV. Other Information

In addition to the amendment of subparts Cb and Eb, this Federal Register document addresses an omission in the 1995 promulgation notice. On December 19, 1995 at 60 FR 65387 EPA published a final rule which inadvertently left out an effective date for amendments 2., 3., 4., 5., and 5a. for sections 60.17, 60.23, 60.24, 60.30, and subpart Ca. Consistent with EPA's intent that those amendments be effective immediately (see 60 FR 65387, 65390, and 65414), the effective date was December 19, 1995.

List of Subjects in 40 CFR Part 60

Environmental protection, Air pollution control, Intergovernmental relations, Reporting and recordkeeping requirements.

Dated: August 15, 1997.

Carol M. Browner,

Administrator.

For reasons set out in the preamble, title 40, chapter I, of the Code of Federal Regulations is amended as follows:

PART 60—[AMENDED]

1. The authority citation for part 60 continues to read as follows:

Authority: 42 U.S.C. 7401, 7411, 7414, 7416, 7429, and 7601.

§ 60.31 [Amended]

2. Amend § 60.31b to remove the definition for "Municipal waste combustor plant capacity".

§ 60.32 [Amended]

3. In § 60.32b paragraphs (b)(1), (d), (e), (f)(1), and (i)(1) remove the word "Administrator" and add, in its place, the words "EPA Administrator".

§ 60.33 [Amended]

4. In § 60.33b(a)(3) remove the phrase "(an 85-percent reduction by weight)" and add in its place the phrase "(85-percent reduction by weight)";

§ 60.34 [Amended]

5. In § 60.34b amend table 3, referenced in paragraph (a), to add the superscript "[b]" to the end of the heading of the third column, and add the footnote "[b] Averaging times are 4-hour or 24-hour block averages.".

§ 60.39 [Amended]

6. In § 60.39b(c)(4)(iii)(B) remove the phrase "The owner or operator may request that the Administrator" and add, in its place, the phrase "The owner or operator of a designated facility may request that the EPA Administrator".

§ 60.50 [Amended]

7. Amend § 60.50b as follows:

a. In paragraphs (b)(1), (e), (f), (g)(1), and (j)(1) remove the word

"Administrator" and add, in its place, the words "EPA Administrator"; and

b. In paragraph (j) introductory text remove the phrase "located at a plant".

§ 60.51 [Amended]

8. Amend § 60.51b as follows:

a. Remove the definitions of "Large municipal waste combustor plant", "Municipal waste combustor plant capacity", and "Small municipal waste combustor plant";

b. In the definition of "Municipal waste combustor unit capacity" remove the word "megagrams" and add, in its place, the word "tons"; and

c. Correct the definition title *Refuse-derived/fuel* to read *Refuse-derived fuel.*

§ 60.52 [Amended]

9. Amend § 60.52b as follows:

a. In paragraphs (a)(1), (a)(2), (a)(3), (a)(4), (a)(5), (b)(1), (b)(2), and (c)(2) remove the phrase "located within a small or large municipal waste combustor plant"; and

b. In paragraphs (d)(1) and (d)(2) remove the phrase "located within a large municipal waste combustor plant".

§ 60.53 [Amended]

10. Amend § 60.53b as follows:

a. In paragraphs (a) introductory text, (b) introductory text, and (c) introductory text remove the phrase "located within a small or large municipal waste combustor plant"; and

b. In table 1, referenced in paragraph (a) introductory text, add the superscript "[b]" to the end of the heading of the third column, and add the footnote "[b] Averaging times are 4-hour or 24-hour block averages.".

§ 60.54 [Amended]

11. Amend § 60.54b as follows:

a. In paragraphs (a), (b), (c) introductory text, (d), (e) introductory text, and (f) introductory text remove the phrase "located within a small or large municipal waste combustor plant"; and

b. Redesignate paragraphs (c)(i) and (c)(ii) as (c)(1) and (c)(2), respectively.

§ 60.55 [Amended]

12. In § 60.55b(a) remove the phrase "located within a small or large municipal waste combustor plant".

§ 60.56 [Amended]

13. In § 60.56b remove the phrase "located at a plant with a plant capacity to combust greater than 35 megagrams" and add, in its place, the phrase "with the capacity to combust greater than 250 tons".

§ 60.57 [Amended]

14. In § 60.57b (a) introductory text, (b) introductory text, and (c) remove the phrase "located within a small or large municipal waste combustor plant.".

§ 60.58 [Amended]

15. Amend § 60.58b as follows:

a. In paragraph (b) introductory text remove the phrase "operator of a small or large municipal waste combustor plant shall" and add, in its place, the phrase "operator of an affected facility shall";

b. In paragraph (b)(3) remove the phrase "startup of the municipal waste combustor" and add, in its place, the phrase "startup of the affected facility";

c. In paragraph (b)(6)(i) remove the words "The emission rate correction factor and the integrated bag sampling and analysis procedure of EPA Reference Method 3B shall" and add, in their place, the words "The fuel factor equation in Method 3B shall be used to determine the relationship between oxygen and carbon dioxide at a sampling location. Method 3, 3A, or 3B, as applicable, shall";

d. In paragraphs (c)(2), (d)(1)(ii), (d)(2)(ii), and (g)(2) remove the words "Method 3" and add, in their place, the words "Method 3, 3A, or 3B, as applicable.";

e. In paragraphs (c)(4), (d)(1)(v), (d)(2)(vii), (e)(3), (f)(4), (g)(8), (h)(2), (i)(5) remove the phrase "An owner or operator may request" and add, in its place, the phrase "The owner or operator of an affected facility may request";

f. In paragraphs (c)(7), (c)(11), and (d)(2)(viii) remove the phrase "located within a small or large municipal waste combustor plant";

g. In paragraphs (c)(9), (d)(1)(vii), (d)(2)(ix), (f)(7), (h)(3), and (h)(4) remove the phrase "located within a large municipal waste combustor plant";

h. Remove and reserve paragraphs (c)(10), (d)(1)(viii), (d)(1)(ix), (d)(2)(x), (f)(8), and (g)(5)(ii);

i. In paragraphs (e)(12)(i)(B), (h)(10)(i)(B), and (i)(3)(ii)(B) remove the words "Method 3A or 3B" and add, in their place, the words "Method 3, 3A, or 3B, as applicable";

j. In paragraphs (g)(5) introductory text and (g)(5)(i) remove the phrase "located within small and large municipal waste combustor plants";

k. In paragraphs (h)(10) introductory text and (m)(3) introductory text remove the phrase "The owner or operator shall" and add, in its place, the phrase "The owner or operator of an affected facility shall";

l. In paragraphs (j)(1) introductory text and (j)(2) remove the phrase ", in megagrams per day of municipal solid waste combusted," and in paragraph (j)(2) remove the phrase "in megagrams per day of municipal solid waste";

m. In paragraph (j)(1)(i) remove the words "10,500 kilojoules per kilogram" and add, in their place, the words "12,800 kilojoules per kilogram for combustors firing refuse-derived fuel and a heating value of 10,500 kilojoules per kilogram for combustors firing municipal solid waste that is not refuse-derived fuel";

n. In paragraph (j)(2) remove the words "10,500 kilojoules per kilogram for all municipal solid waste" and add, in their place, the words "12,800 kilojoules per kilogram for combustors firing refuse-derived fuel and a heating value of 10,500 kilojoules per kilogram for combustors firing municipal solid waste that is not refuse-derived fuel"; and

o. Revise paragraph (b)(7), the first sentence of paragraph (g)(5)(iii), paragraph (h) introductory text, paragraph (k) introductory text, and add paragraph (k)(4) to read as follows:

§ 60.58b Compliance and performance testing.

* * * * *

(b) * * *

(7) The relationship between carbon dioxide and oxygen concentrations that is established in accordance with paragraph (b)(6) of this section shall be submitted to the EPA Administrator as part of the initial performance test report and, if applicable, as part of the annual test report if the relationship is reestablished during the annual performance test.

* * * * *

(g) * * *

(5) * * *

(iii) Where all performance tests over a 2-year period indicate that dioxin/furan emissions are less than or equal to 7 nanograms per dry standard cubic meter (total mass) for all affected facilities located within a municipal waste combustor plant, the owner or operator of the municipal waste combustor plant may elect to conduct annual performance tests for one affected facility (i.e., unit) per year at the municipal waste combustor plant.

* * *

* * * * *

(h) The procedures and test methods specified in paragraphs (h)(1) through (h)(12) of this section shall be used to determine compliance with the nitrogen oxides emission limit for affected facilities under § 60.52b(d).

* * * * *

(k) The procedures specified in paragraphs (k)(1) through (k)(4) of this

section shall be used for determining compliance with the fugitive ash emission limit under § 60.55b.

* * * * *

(4) Following the date that the initial performance test for fugitive ash emissions is completed or is required to be completed under § 60.8 of subpart A of this part for an affected facility, the owner or operator shall conduct a performance test for fugitive ash emissions on an annual basis (no more than 12 calendar months following the previous performance test).

* * * * *

§ 60.59 [Amended]

16. Amend § 60.59b as follows:

a. In paragraph (b)(4) remove the phrase ", municipal waste combustion plant capacity,";

b. In paragraph (d) introductory text remove the phrase "located within a small or large municipal waste combustor plant and";

c. In paragraphs (d)(2)(i)(C), (d)(2)(ii)(B), and (d)(6)(ii) remove the phrase "(large municipal waste combustor plants only)";

d. In paragraph (d)(3) remove the phrase "(d)(2)(ii)(A) through (d)(2)(ii)(E)" and add, in its place the phrase "(d)(2)(ii)(A) through (d)(2)(ii)(D)";

e. In paragraph (d)(8) remove the phrase "(large municipal waste combustors only)";

f. In paragraph (d)(11) remove "municipal waste combustor" and add, in its place, "affected facility";

g. In paragraph (d)(12)(ii) remove the phrase "as required by § 60.54b(a)" and add, in its place, the phrase "as required by § 60.54b(b)";

h. In paragraphs (f) introductory text, (g) introductory text, and (h) introductory text remove the phrase "located within a small or large municipal waste combustor plant";

i. In paragraph (l) remove the phrase "If an owner or operator would prefer to select" and add, in its place, "If the owner or operator of an affected facility would prefer";

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BILLING CODE 6560-50-P

Appendix F

Maximum Potential Emission Calculations

Maximum Potential Emissions Calculations
Ogden Martin Systems of Lake, Inc.

Emission Unit No:	1	(MWC Unit No. 1)
Max. Flow rate:	43,200	dscf/min (@ 9% O_2, 10% CO_2) (See Form III. Part 7a-1)
Solid Waste Heat Content:	5000	Btu/lb
Solid Throughput:	288	ton/day (Permit limit)
Hours of Operation:	8760	hr/yr (Maximum potential)

Pollutant	Permit Emission Limit		Maximum Potential Emissions	
	Quantity	Units	(lb/hr)[a]	(ton/yr)[b]
PM/PM10	0.02	gr/dscf @ 7% O_2	6.34	27.77
PM/PM10	0.015	gr/dscf @ 12% CO_2	4.63	20.27
SO_2	60	ppmdv @ 12% CO_2	21.53	94.29
NO_x	385	ppmdv @ 12% CO_2	99.28	434.86
CO	100	ppmdv @ 7% O_2	16.13	70.63
VOC	70	ppmdv @ 12% CO_2	6.28	27.50
Lead	3.10E-04	gr/dscf @ 12% CO_2	0.10	0.42
Fluoride	1.50E-03	gr/dscf @ 12% CO_2	0.46	2.03
Beryllium	2.00E-07	gr/dscf @ 12% CO_2	6.17E-05	2.70E-04
Mercury	70	ug/dscm @ 7% O_2	9.70E-03	4.25E-02
HCl	50	ppmdv @ 7% O_2	10.50	45.97

[a] lb/hr emissions calculated as follows:

For PM/PM10 corrected to 7% O_2:

lb/hr = gr/dscf x 43,200 dscf/min x 1 lb/7000 gr x 60 min/hr x (20.9-9% O_2)/(20.9-7% O_2)

For PM/PM10, lead, flouride, beryllium corrected to 12% CO_2:

lb/hr = gr/dscf x 43,200 dscf/min x 1 lb/7000 gr x 60 min/hr x (10% CO_2)/(12% CO_2)

For Mercury corrected to 7% O_2:

lb/hr = ug/dscm x $1m^3/35.29\ ft^3$ x 1 lb/4.54E+08 ug x 43,200 dscf/min x 60 min/hr x (20.9-9%O_2/(20.9-7% O_2))

For CO and HCl:

lb/hr = ppmdv x $1/10^6$ x 1 lb mol/385.3 scf x Mol. Wt. lb/lb mol x 43,200 dscf/min x 60 min/hr x (20.9-9%O_2/(20.9-7% O_2))

For SO_2, NO_x, and VOC:

lb/hr = ppmdv x $1/10^6$ x 1 lb mol/385.3 scf x Mol. Wt. lb/lb mol x 43,200 dscf/min x 60 min/hr x (10% CO_2/(12% CO_2))

Molecular weight for VOC = 16 (methane).

The above calculations assume that exhaust from Emission Unit Nos. 1 and 2 average 9% O_2 and 10% CO_2.

[b] ton/yr emissions calculated as: ton/yr = lb/hr x 8760 hr/yr x 1 ton/2000 lb

Maximum Potential Emissions Calculations
Ogden Martin Systems of Lake, Inc.

Emission Unit No:	2	(MWC Unit No. 2)
Max. Flow rate:	43,200	dscf/min (@ 9% O_2, 10% CO_2) (See Form III. Part 7a-3)
Solid Waste Heat Content:	5000	Btu/lb
Solid Waste Throughput:	288	ton/day (Permit limit)
Hours of Operation:	8760	hr/yr (Maximum potential)

Pollutant	Permit Emission Limit		Maximum Potential Emissions	
	Quantity	Units	(lb/hr)[a]	(ton/yr)[b]
PM/PM10	0.02	gr/dscf @ 7% O_2	6.34	27.77
PM/PM10	0.015	gr/dscf @ 12% CO_2	4.63	20.27
SO_2	60	ppmdv @ 12% CO_2	21.53	94.29
NO_x	385	ppmdv @ 12% CO_2	99.28	434.86
CO	100	ppmdv @ 7% O_2	16.13	70.63
VOC	70	ppmdv @ 12% CO_2	6.28	27.50
Lead	3.10E-04	gr/dscf @ 12% CO_2	0.10	0.42
Fluoride	1.50E-03	gr/dscf @ 12% CO_2	0.46	2.03
Beryllium	2.00E-07	gr/dscf @ 12% CO_2	6.17E-05	2.70E-04
Mercury	70	ug/dscm @ 7% O_2	9.70E-03	4.25E-02
HCl	50	ppmdv @ 7% O_2	10.50	45.97

[a] lb/hr emissions calculated as follows:

For PM/PM10 corrected to 7% O_2:

lb/hr = gr/dscf x 43,200 dscf/min x 1 lb/7000 gr x 60 min/hr x (20.9-9% O_2)/(20.9-7% O_2)

For PM/PM10, lead, flouride, beryllium corrected to 12% CO_2:

lb/hr = gr/dscf x 43,200 dscf/min x 1 lb/7000 gr x 60 min/hr x (10% CO_2)/(12% CO_2)

For Mercury corrected to 7% O_2:

lb/hr = ug/dscm x $1m^3/35.29\ ft^3$ x 1 lb/4.54E+08 ug x 43,200 dscf/min x 60 min/hr x (20.9-9%O_2/(20.9-7% O_2))

For CO and HCl:

lb/hr = ppmdv x $1/10^6$ x 1 lb mol/385.3 scf x Mol. Wt. lb/lb mol x 43,200 dscf/min x 60 min/hr x (20.9-9%O_2/(20.9-7% O_2))

For SO_2, NO_x, and VOC:

lb/hr = ppmdv x $1/10^6$ x 1 lb mol/385.3 scf x Mol. Wt. lb/lb mol x 43,200 dscf/min x 60 min/hr x (10% CO_2/(12% CO_2))

Molecular weight for VOC = 16 (methane).

The above calculations assume that exhaust from Emission Unit Nos. 1 and 2 average 9% O_2 and 10% CO_2.

[b] ton/yr emissions calculated as: ton/yr = lb/hr x 8760 hr/yr x 1 ton/2000 lb

Appendix G

Stoker Firing Diagram

Stoker Capacity Diagram

Lake County