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Environmental
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REVISED APPLICATION FOR TITLE V AIR PERMIT DADE COUNTY RESOURCE RECOVERY FACILITY MEDLEY, FLORIDA

Prepared For:
Dade County Department of Solid Waste Management
8675 NW 53rd Street, Suite 201
Miami, FL 33166

Prepared By:
Golder Associates Inc.
6241 NW 23rd Street, Suite 500
Gainesville, Florida 32653-1500

October 2000 0037532Y/F2

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Department of Environmental Protection

OCT 1 0 2000

Environmental
Compliance Division

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - TITLE V SOURCE

See Instructions for Form No. 62-210.900(1)

I. APPLICATION INFORMATION

<u>Ide</u>	entification of Facility				
1.	Facility Owner/Company Name: Dade County Resource Recovery Fa	cility			
2.	Site Name:				
	Dade County Resource Recovery Fa	cility			
3.	Facility Identification Number:	0250348		[] Unknown
4.	Facility Location: Street Address or Other Locator: 69	990 NW 9	7th /	Avenue	
	City: Medley C	ounty: C	Dade		Zip Code: 33178
5.	Relocatable Facility?		6.	Existing Per	mitted Facility?
	[] Yes [X] No			[X] Yes	[] No
<u>Ap</u>	plication Contact				
1.	Name and Title of Application Contact:				
	Lee Casey, Chief, Environmental Compliance Division				
2.	Application Contact Mailing Addre Organization/Firm: Dade County		ent	of Solid Wast	e Management
	Street Address: 8675 NW 53rd Street, Suite 201				
	City: Miami	Sta	ite:	FL	Zip Code: 33166
3.	Application Contact Telephone Nur	nbers:			
	Telephone: (305) 594 - 1670			Fax: (305)	594 - 1591
<u>Ap</u>	plication Processing Information (DEP Us	<u>se)</u>		
1.	Date of Receipt of Application:				
2.	Permit Number:				
3.	PSD Number (if applicable):				
4.	Siting Number (if applicable):				

Purpose of Application

Air Operation Permit Application

Th	is	Application for Air Permit is submitted to obtain: (Check one)
[]	Initial Title V air operation permit for an existing facility which is classified as a Title V source.
[]	Initial Title V air operation permit 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:
[X	[]	Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application.
		Current construction permit number: PSD-FL-006D
		Operation permit number to be revised:
[]	Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.)
		Operation permit number to be revised/corrected:
]]	Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.
		Operation permit number to be revised:
		Reason for revision:
Ai	r (Construction Permit Application
Th	is	Application for Air Permit is submitted to obtain: (Check one)
]]	Air construction permit to construct or modify one or more emissions units.
[]	Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

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

Owner/Authorized Representative or Responsible Official

1.	Name and Title of Owner/Authorized Representative or Responsible Officials
	Lee Casey Chief Environmental Compliance Division

2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: Dade County Department of Solid Waste Management

Street Address: 8675 NW 53rd Street, Suite 201

City: Miami

State: FL

Zip Code: 33166

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

Telephone: (305) 594 - 1670

Fax: (305) 594 - 1591

4. Owner/Authorized Representative or Responsible Official Statement:

I, the undersigned, am the owner or authorized representative*(check here [], if so) or the responsible official (check here [X], if so) 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 unit.

Signature

Professional Engineer Certification

1. Professional Engineer Name: David A. Buff

Registration Number: 19011

2. Professional Engineer Mailing Address:

Organization/Firm: Golder Associates Inc.

Street Address: 6241 NW 23rd Street, Suite 500

City: Gainesville State: FL Zip Code: **32653-1500**

3. Professional Engineer Telephone Numbers:

Telephone: (352) 336 - 5600 Fax: (352) 336-6603

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

0037532Y/F2/TV 10/5/00

^{*} Attach letter of authorization if not currently on file.

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 pollution 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 [X], 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 unit 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.

Dail	a. Beff	10/6/00	
Signature (seal)	//-	Date	

Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions 11-24	Permit	Processing Fee
	Description of Emissions Unit	Туре	ree
001, 002, 003, 004	Units 1 through 4		
	Refuse Derived Fuel (RDF) Processing and Biomass Production		
	Ash Building and Handling System		
			
•			

Application Processing Fee

Check one: [] Attached - Amount: \$:	[X]	Not Applicable
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5

Construction/Modification Information

1.	Description of Proposed Project or Alterations:
2.	Projected or Actual Date of Commencement of Construction:
3.	Projected Date of Completion of Construction:

Application Comment

The purpose of this application is to obtain a revision to the facility's Title V permit to reflect the recently issued PSD permit (Permit No. PSD-FL-006D)

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1.	Facility UTM Coor	dinates:			
	Zone: 17	East (km):	: 564.30 Nort	th (km): 2857.40	
2.	Facility Latitude/Lo	ongitude:			
	Latitude (DD/MM/	SS): 25/50/06	Longitude (DD/MM/SS): 80/ 21/ 30		
3.	Governmental	4. Facility Status	5. Facility Major	6. Facility SIC(s):	
	Facility Code:	Code:	Group SIC Code:		
	3	Α	49	4953	
7.	Facility Comment (limit to 500 characters):			

Facility Contact

1.	Name and Title of Facility Contact:
l	Francois Screve, Facility Manager
l	

2. Facility Contact Mailing Address:

Organization/Firm: Dade County Resource Recovery Facility

Street Address: 6990 NW 97th Avenue

City: Medley State: FL Zip Code: 33178

3. Facility Contact Telephone Numbers:

Telephone: (305) 593-7000 Fax: (305) 593-1826

Facility Regulatory Classifications

Check all that apply:

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

Title V Core List

Effective:03/25/97

[Note: The Title V Core List is intended to simplify the completion of the "List of Applicable Regulations" that apply facility-wide (see Subsection II.B. of DEP Form No. 62-210.900(1), Application for Air Permit Long Form. The Title V Core List is a list of rules to which all Title V Sources are presumptively subject. The Title V Core List may be referenced in its entirety, or with specific exceptions. The Department may periodically update the Title V Core List.

Requirements that apply to emissions units must be identified in Subsection III.B. of DEP Form No. 62-210.900(1), Application for Air Permit - Long Form.

Applicants must identify all "applicable requirements" in order to claim the "permit shield" described at Rule 62-213.460, F.A.C.]

Federal:

(description)

40 CFR 61: National Emission Standards for Hazardous Air Pollutants (NESHAP)

40 CFR 61, Subpart M: NESHAP for Asbestos.

40 CFR 82: Protection of Stratospheric Ozone.

40 CFR 82, Subpart B: Servicing of Motor Vehicle Air Conditioners (MVAC).

40 CFR 82, Subpart F: Recycling and Emissions Reduction.

State:

(description)

CHAPTER 62-4, F.A.C.: PERMITS, effective 10-16-95

62-4.030, F.A.C.: General Prohibition.

62-4.040, F.A.C.: Exemptions.

62-4.050, F.A.C.: Procedure to Obtain Permits; Application

62-4.060, F.A.C.: Consultation.

62-4.070, F.A.C.: Standards for Issuing or Denying Permits; Issuance; Denial.

62-4.080, F.A.C.: Modification of Permit Conditions.

62-4.090, F.A.C.: Renewals.

62-4.100, F.A.C.: Suspension and Revocation.

62-4.110, F.A.C.: Financial Responsibility.

62-4.120, F.A.C.: Transfer of Permits.

62-4.130, F.A.C.: Plant Operation - Problems.

62-4.150, F.A.C.: Review

62-4.160, F.A.C.: Permit Conditions.

62-4.210, F.A.C.: Construction Permits.

62-4.220, F.A.C.: Operation Permit for New Sources.

Chapter 62-103, F.A.C.: Rules of Administrative Procedure, effective 12-31-95

62-103.150, F.A.C.: Public Notice of Application and Proposed Agency Action.

62-103.155, F.A.C.: Petition for Administrative Hearing; Waiver of Right to Administrative Proceeding

CHAPTER 62-210, F.A.C.: STATIONARY SOURCES - GENERAL REQUIREMENTS, effective 03-21-96

- 62-210.300, F.A.C.: Permits Required.
- 62-210.300(1), F.A.C.: Air Construction Permits.
- 62-210.300(2), F.A.C.: Air Operation Permits.
- 62-210.300(3), F.A.C.: Exemptions.
- 62-210.300(3)(a), F.A.C.: Full Exemptions.
- 62-210.300(3)(b), F.A.C.: Temporary Exemption.
- 62-210.300(5), F.A.C.: Notification of Startup.
- 62-210.300(6), F.A.C.: Emissions Unit Reclassification.
- 62-210.350, F.A.C.: Public Notice and Comment.
- 62-210.350(3), F.A.C.: Additional Public Notice Requirements for Sources Subject to Operation Permits for Title V Sources.
- 62-210.360, F.A.C.: Administrative Permit Corrections.
- 62-210.370(3), F.A.C.: Annual Operating Report for Air Pollutant Emitting Facility.
- 62-210.650, F.A.C.: Circumvention.
- 62-210.900, F.A.C.: Forms and Instructions.
- 62-210.900(1) Application for Air Permit Long Form, Form and Instructions.
- 62-210.900(5) Annual Operating Report for Air Pollutant Emitting Facility, Form and Instructions.

CHAPTER 62-213, F.A.C.: OPERATION PERMITS FOR MAJOR SOURCES OF AIR POLLUTION, effective 03-20-96

- 62-213.205, F.A.C.: Annual Emissions Fee.
- 62-213.400, F.A.C.: Permits and Permit Revisions Required.
- 62-213.410, F.A.C.: Changes Without Permit Revision.
- 62-213.412, F.A.C.: Immediate Implementation Pending Revision Process.
- 62-213.420, F.A.C.: Permit Applications.
- 62-213.430, F.A.C.: Permit Issuance, Renewal, and Revision.
- 62-213.440, F.A.C.: Permit Content.
- 62-213.460, F.A.C.: Permit Shield.
- 62-213.900, F.A.C.: Forms and Instructions.
- 62-213.900(1) Major Air Pollution Source Annual Emissions Fee Form, Form and Instructions.

CHAPTER 62-256, F.A.C.: OPEN BURNING AND FROST PROTECTION FIRES, effective 11-30-94

CHAPTER 62-257, F.A.C: ASBESTOS NOTIFICATION AND FEE, effective 03/24/96

CHAPTER 62-281, F.A.C: MOTOR VEHICLE AIR CONDITIONING REFRIGERANT

RECOVERY AND RECYCLING, effective 03-07-96

CHAPTER 62-296, F.A.C.: STATIONARY SOURCES - EMISSION STANDARDS, effective 03-13-96

62-296.320(2), F.A.C.: Objectionable Odor Prohibited.

62-296.320(3), F.A.C.: Industrial, Commercial, and Municipal Open Burning

Prohibited

62-296.320(4)(c), F.A.C.: Unconfined Emissions of Particulate Matter

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant	2. Pollutant	3. Requested E	missions Cap	4. Basis for	5. Pollutant
Emitted	Classif.			Emissions	Comment
		lb/hour	tons/year	Cap	
					Particulate Matter -
PM	Α				Total and MWC Metals
PM ₁₀	A				Particulate Matter - PM ₁₀
NO _x	А				Nitrogen Oxides
voc	В				Volatile Organic Compounds
СО	А				Carbon Monoxide
H027	В				Cadmium
РВ	В				Lead
H114	В				Mercury Compounds
SO ₂	_A_				Sulfur Dioxide
H106	A				MWC acid gases (measured as SO ₂ and HCI)
DIOX	В				Dioxins/Furans (MWC organics)
HAPs	Α				Total HAPs
FL -	В			_	Fluorides - Total
H015	В				Arsenic Compounds
H021	В	· · · · · · · · · · · · · · · · · · ·			Beryllium Compounds
SAM	В				Sulfuric Acid Mist

C. FACILITY SUPPLEMENTAL INFORMATION

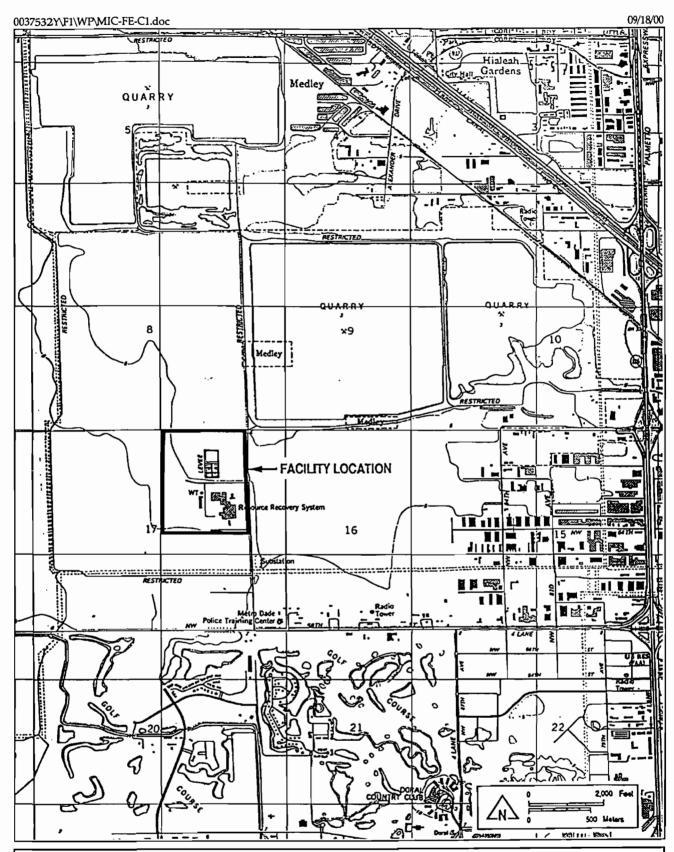
Supplemental Requirements

1.	Area Map Showing Facility Location:
	[X] Attached, Document ID: MIC-FE-C1 [] Not Applicable [] Waiver Requested
2.	Facility Plot Plan:
	[X] Attached, Document ID: MIC-FE-C2 [] Not Applicable [] Waiver Requested
3.	Process Flow Diagram(s):
	[X] Attached, Document ID: MIC-FE-C3[] Not Applicable [] Waiver Requested
4.	Precautions to Prevent Emissions of Unconfined Particulate Matter:
	[X] Attached, Document ID: MIC-FE-C4 [] Not Applicable [] Waiver Requested
5.	Fugitive Emissions Identification:
	[X] Attached, Document ID: MIC-FE-C5 [] Not Applicable [] Waiver Requested
6.	Supplemental Information for Construction Permit Application:
	[] Attached, Document ID: [X] Not Applicable
7.	Supplemental Requirements Comment:
	•

Additional Supplemental Requirements for Title V Air Operation Permit Applications

8. List of Proposed Insignificant Activities:
[X] Attached, Document ID: MIC-FE-C8 [] Not Applicable
9. List of Equipment/Activities Regulated under Title VI:
[X] Attached, Document ID: MIC-FE-C9
[] Equipment/Activities On site but Not Required to be Individually Listed
[] Not Applicable
10. Alternative Methods of Operation:
[X] Attached, Document ID: MIC-FE-C10 [] Not Applicable
11. Alternative Modes of Operation (Emissions Trading):
[X] Attached, Document ID: MIC-FE-C11 [] Not Applicable
12. Identification of Additional Applicable Requirements:
[X] Attached, Document ID: MIC-FE-C12 [] Not Applicable
13. Risk Management Plan Verification:
[] Plan previously submitted to Chemical Emergency Preparedness and Prevention
Office (CEPPO). Verification of submittal attached (Document ID:) or
previously submitted to DEP (Date and DEP Office:)
[] Plan to be submitted to CEPPO (Date required:)
[X] Not Applicable
14. Compliance Report and Plan:
[X] Attached, Document ID: MIC-FE-C14 [] Not Applicable
15. Compliance Certification (Hard-copy Required):
[X] Attached, Document ID: MIC-FE-C15 [] Not Applicable

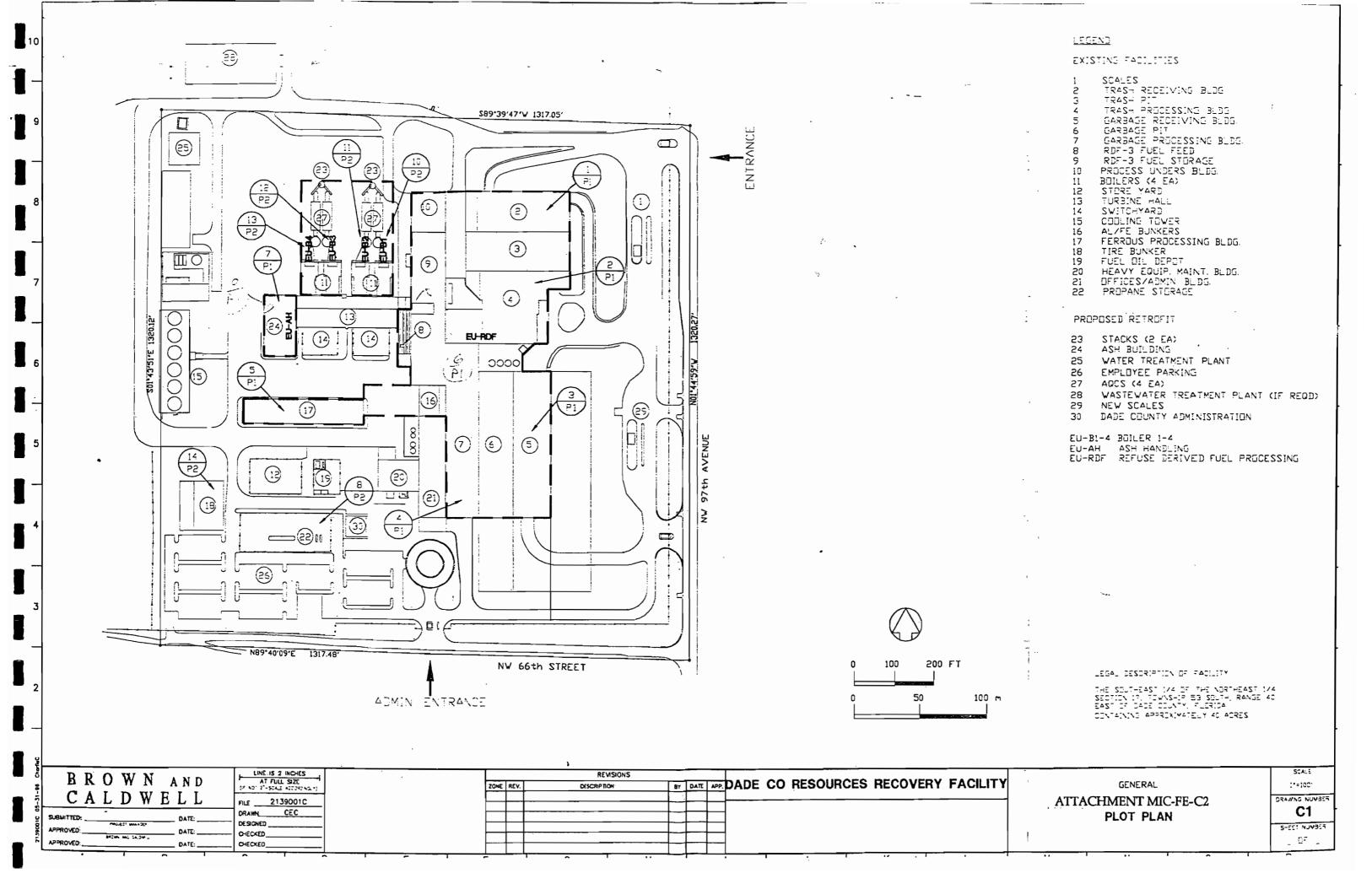
ATTACHMENT MIC-FE-C1
AREA MAP



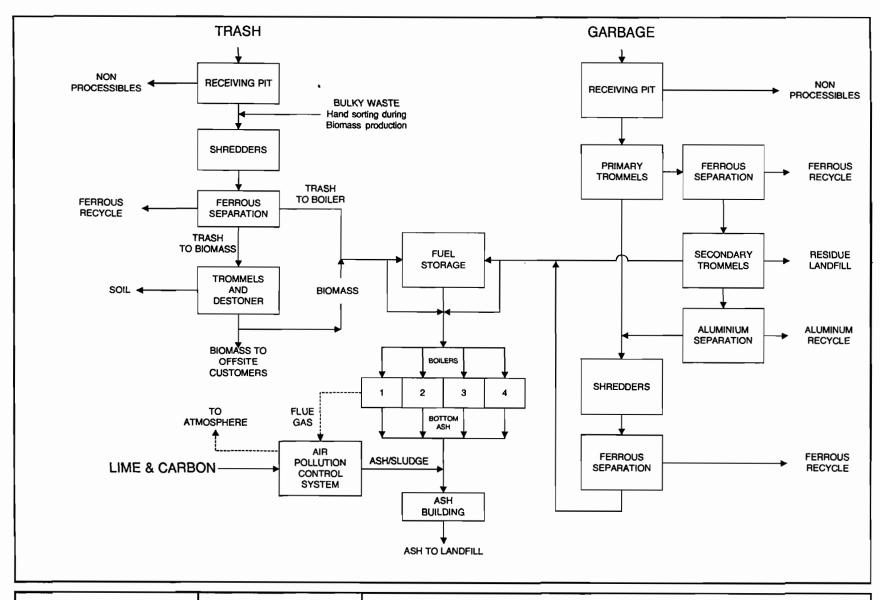
ATTACHMENT MIC-FE-C1
AREA MAP
DADE COUNTY RESOURCES RECOVERY FACILITY
Montenay Power Corporation



ATTACHMENT MIC-FE-C2
FACILITY PLOT PLAN



ATTACHMENT MIC-FE-C3
PROCESS FLOW DIAGRAM



Attachment MIC-FE-3 Process Flow Diagram

Miami-Date County Resources Recovery Facility Process Flow Legend
Solid/Liquid
Gas

Filename: 0037532Y/F1/WP/MIC-FE-C3.VSD

Date: 10/05/00



ATTACHMENT MIC-FE-C4
PRECAUTIONS TO PREVENT EMISSIONS
OF UNCONFINED PARTICULATE MATTER

PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER

Emissions of unconfined particulate matter have the potential to occur during routine operations and maintenance activities and temporary construction activities at the Facility. Most activities occur inside buildings, which reduces the potential for fugitive emissions. Other precautions have been or will be taken at the Facility.

Facility roads, except within the ash landfill, will be adequately paved to control visible dust. Maximum 15 MPH speed limit signs are posted to minimize dust generation. Conveyors are covered or enclosed to minimize dust from waste processing and ash handling operations. Residue from the grates, grate siftings, and ash from the combustor/boiler and fabric filter hoppers during normal operations are discharged into the ash handling system to minimize fugitive dust. The fly ash will be handled by enclosed conveyors to an ash silo and then will be conditioned to minimize dust emissions. The ash/residue in the ash building will be kept sufficiently moist to minimize fugitive dust emissions during handling operations and storage.

In accordance with permit conditions, reasonable precautions during the processing of biomass may include, but shall not be limited to the following:

- 1) Windows and doors of the enclosed space will be kept closed except when in use.
- 2) Conveyor systems handling shredded trash fines and dust will be covered or enclosed.
- 3) Shredded trash conveyor systems have baghouse pick up points at the transfer points.
- 4) Wind breaks will be installed around the biomass load-out area.
- 5) Floors in the enclosed area will be cleaned periodically.
- 6) Loading areas for biomass will be cleaned or wetted as needed to minimize fugitive dust.
- 7) Trucks transporting biomass will be covered.

Rule 62-296.320(4)(c) refers to additional precautions that may also include the following:

- 1) Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
- 2) Application of asphalt, water, oil, chemicals, or other dust suppressants to roads, yards, open stock piles, and similar emissions units.
- 3) Confining abrasive blasting where possible.

Furthermore, doors and the building and roof openings can be closed to minimize fugitive dust. Ventilation fans can be turned off to reduce unconfined emissions, provided that safety and operations are not compromised. Water sprays can also be used to reduce unconfined particulate matter.

ATTACHMENT MIC-FE-C5
FUGITIVE EMISSIONS IDENTIFICATION

FUGITIVE EMISSIONS IDENTIFICATION

The source of fugitive emissions may be from the locations and activities noted below and other activities such as housekeeping. In addition to unconfined particulate matter, trace amounts of VOC, propane, methane, landfill gas, combustion by-products, and other pollutants may be emitted, but at levels below the regulatory threshold. All fugitive emissions identified below are considered to be unregulated, exempted, or below regulatory thresholds,

Trash Handling

Emissions from transfer of trash from trucks to receiving building Emissions from road dust (tires and trash vehicles) (F-RDF-8) Emissions from open doors (during hours of operation) (F-RDF-6) Emissions from trash handling in pit Emissions from trash fires in pit Emissions from trash from pit to trash processing Emissions from trash transfer through roof vents (F-RDF-4) Emissions from trash transfer through louvers (F-RDF-5)

Trash handling is comprised of a trash tipping floor and trash storage pit. The tipping floor currently has 10 tipping bays and a capacity to handle up to 1,500 trucks per week during normal delivery hours. The trash storage pit contains approximately 20,000 cubic yards of storage capacity (approximately 3,000 tons).

Garbage Handling

Emissions from transfer of garbage from trucks to receiving building Emissions from road dust (F-RDF-7)

Emissions from open doors (during hours of operation) (F-RDF-3)

Emissions from garbage handling in pit

Emissions from garbage fires in pit

Emissions from transfer of garbage from pit to garbage processing

Emissions from garbage transfer through roof vents (F-RDF-1)

Emissions from garbage transfer through louvers (F-RDF-2)

Emissions from classifiers

Garbage handling is comprised of a garbage tipping floor and garbage storage pit. The tipping floor has 12 tipping bays and a capacity to handle up to 2,000 trucks per week during normal delivery hours. The garbage storage pit has approximately 30,000 cubic yards of nominal storage capacity (approximately 6,750 tons).

Trash Processing

Emissions through roof-top vent structures (F-RDF-7)
Emissions through wall opening (F-RDF-8)
Emissions from material transfer
Emissions from dust collection conveyors
Emissions from shredder explosions

Garbage Processing

Emissions from road dust (unders material transport)
Emissions from passive vents (turbine ventilators)
Emissions from conveyors, storage pile, and material transfer to trucks
Emissions through roof-top vent structures (F-RDF-10)
Emissions through shredder vents (F-RDF-9)
Emissions from dust collection conveyors
Emissions from shredder explosions

RDF Fuel Feed Storage and Unders Building

Emissions from fuel and material transfer (F-RDF-2)
Emissions from conveyors and enclosures
Emissions from material transfer from conveyors to storage pile
Emissions from storage piles
Emissions through roof-top vents (F-RDF-1)

Ash Handling System

Emissions from the transfer of materials from the conveyors to the ash building Emissions from the Ash Handling building (F-AH-1) Emissions from the loading of ash into trucks (F-AH-3) Emissions from road dust associated with the dump trucks Emissions from ash monofill (F-AH-2)

Closed Ash Monofill

Emissions from monofill unit Emissions from road dust caused by trucks

Active Ash Monofill

Emissions from monofill unit Emissions from road dust caused by trucks

Water Treatment and Cooling Tower System

Emissions from above ground storage and process tanks Emissions from water treatment lime silo and equipment Emissions from cooling tower operation

Ferrous Processing

Emissions from shredding process
Emissions from separation processes
Emissions from material transfer
Emissions from road dust associated with vehicles
Emissions through roof-vents

Heavy Maintenance Area

Emissions from welding operations

Boilers and AQCS

Emissions from #1 boiler, AQCS, and ash conveyors FB1-1 Emissions from #2 boiler, AQCS, and ash conveyors FB2-1 Emissions from #3 boiler, AQCS, and ash conveyors FB3-1 Emissions from #4 boiler, AQCS, and ash conveyors FB4-1 Emissions from lime, and mercury reagent unloading operations

Tire Processing and Other

Emissions from thre shredding operations

Emissions from chemical and fuel unloading operations

ATTACHMENT MIC-FE-C8
LIST OF PROPOSED INSIGNIFICANT ACTIVITIES

ATTACHMENT MIC-FE-C8 LIST OF PROPOSED INSIGNIFICANT ACTIVITIES

Combustion Emissions from Mobile Sources

Air Conditioning Units

Ventilation Systems and Related Facilities

Non-Commercial Food Operations

Plumbing Vents and Drains

Plant Operations, Maintenance and Upkeep

Repair and Maintenance Shop Activities

Portable Electric Generators

Cutting, Grinding, and Other Hand Held Equipment

Welding Equipment, Cutting Torches, and Related Equipment

Air Compressors

Batteries and UPS Systems

Storage Tanks, Vents, and Drains

Continuous Emissions Monitors and Analyzer Vents

Pressure Regulator Vents

Laboratory Equipment and Vents

Analytical Instruments

Fugitive Emissions Noted On Attachment MIC-FE-C5

Demineralizer and Water Treatment Systems

Cooling Towers

Deaerators

Fire Suppression Systems

Steam Vents and Safety Relief Valves

Steam Leaks

Housekeeping

Landscaping

Ash Quenching and Conveying

Ash Monofill

Plant Roads

Chemical Tanks, Vents, Drains

Lubrication Oil, Hydraulic Oil, Grease Tanks, Drums, Vents, Drains

Waste Oil Tanks

Diesel Engine Powered Generators - Cooling Tower, Lift Station, Fire Water

Degreaser, Solvents, and Other Tanks, Drums, Vents, Drains

Propane Tanks

Propane Vaporizers

LP Gas Cylinders

Acetylene and Oxygen Bottles

Portable Tire Shredder

Stormwater, Wastewater, Leachate Systems

Oil/Water Separators

Recovered Material Processing (Ferrous, Aluminum, Etc.)

Deodorizer

Electric Transformers and Equipment

Insecticides, Pesticides, and Herbcides

Paints, Cleaners

Truck Washing

Temporary Construction

Lime Silo Loading Operations

Activated Carbon Silo Loading Operations

Truck Loading and Unloading Operations for Metals and Unprocessible Materials

Module #1 Blowdown Tank

Module #2 Blowdown Tank

The above facilities and pollutant emitting activities are eligible for exemption in accordance with the criteria of Rule 62-213.430(6), F.A.C., based upon the low levels of emissions anticipated. Additionally, activities defined in Attachment A to the U.S. EPA document entitled "White Paper for Streamlined Development of Part 70 Permit Applications", dated July 10, 1995 are assumed to be presumptively exempt whether identified specifically in this application or not.

ATTACHMENT MIC-FE-C9
LIST OF EQUIPMENT/ACTIVITIES REGULATED UNDER TITLE VI

ATTACHMENT MIC-FE-C9 LIST OF EQUIPMENT REGULATED UNDER TITLE VI

No individual piece of equipment at the facility contains more than 50 pounds of charge of any Class I or Class II ozone depleting substance. Air conditioners and other small quantity units are operated onsite and may be repaired onsite. No activities exist at the facility which are subject to the requirements under Title VI of the Clean Air Act.

ATTACHMENT MIC-FE-C10
ALTERNATIVE METHODS OF OPERATION

ATTACHMENT MIC-FE-C10 ALTERNATIVE METHODS OF OPERATION

There are no alternative methods of operation anticipated that would significantly affect air pollutant emissions from the facility. The primary activities of garbage and trash receiving and processing, materials recovery and processing, fuel handling and storage, biomass production and export, RDF, natural gas, and propane combustion, ash landfilling, and all associated activities will continue as currently conducted or allowed by permit.

Three fuel segments have been identified for the Zurn Boilers. Refuse derived fuel (RDF) is the primary fuel and propane and natural gas are auxiliary fuels only. RDF quality will vary within a wide range of characteristics of incoming trash, garbage, and tires. No biological waste, bio-medical waste, sewage sludge or hazardous waste will be combusted without obtaining proper modification to the site certification conditions. Up to three percent (by weight) of used tires may be combusted with the RDF.

ATTACHMENT MIC-FE-C11
ALTERNATIVE MODES OF OPERATION (EMISSIONS TRADING)

ATTACHMENT MIC-FE-C11 ALTERNATIVE MODES OF OPERATION (EMISSIONS TRADING)

There are no alternative modes of operation proposed for this facility or any of the emissions units at this facility. Each of the four boilers has been identified as a separate emissions unit with limits for pollutants on a "per unit" basis. No facility-wide emissions cap is proposed and no emissions trading is requested.

ATTACHMENT MIC-FE-C12
IDENTIFICATION OF ADDITIONAL APPLICABLE REQUIREMENTS

ATTACHMENT MIC-FE-C12

IDENTIFICATION OF ADDITIONAL APPLICABLE REQUIREMENTS

- 1. FDEP Conditions of Certification PA77-08, revised March 2, 1994.
- 2. FDEP/EPA Permit No. PSD-FL-006D, issued July 21, 2000.

ATTACHMENT MIC-FE-C14
COMPLIANCE REPORT AND PLAN

ÄTTACHMENT MIC-FE-14 COMPLIANCE REPORT AND PLAN

The Dade County Resources Recovery Facility is in compliance with (or in the process of implementing changes to comply with) all currently applicable air regulations, air permits, and settlement agreements referenced in this application.

1. The facility is in the process of implementing changes to meet the MACT standards of 40 CFR 60 Subpart Cb. The four boilers were recently modified to comply with the Subpart Cb emission limits for carbon monoxide. The modifications consisted of changes to the overfire air system, fuel feed system and associated fuel distribution system. Dade County is also currently evaluating the voluntary installation of a selective non-catalytic reduction (SNCR) system for NO_x control on the four boilers. Final compliance with the MACT standards of Subpart Cb will be achieved by December 2000.

ATTACHMENT MIC-FE-C15
COMPLIANCE CERTIFICATION

ATTACHMENT MIC-FE-C15 COMPLIANCE CERTIFICATION

"I, the undersigned, am the responsible official as defined in Chapter 62-210.200, F.A.C., of the Title V source for which this report is being submitted. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made and data contained in this report are true, accurate, and complete."

Lee Caséy

Chief, Environmental Compliance Division Department of Solid Waste Management refiofo o

Emissions	Unit	Information	Section	1	of	3
		TITLOTITUDE	Dection		O.	-

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION (All Emissions Units)

Emissions Unit Description and Status

Emissions Citt Description	and Dutus				
1. Type of Emissions Unit A	Addressed in Thi	s Section: (Check one)			
_	nit, or activity, v	on addresses, as a single emis which produces one or more a on point (stack or vent).			
[X] This Emissions Unit Inf process or production u (stack or vent) but may	nits and activitie	s which has at least one defin			
		n addresses, as a single emis s which produce fugitive em			
2. Regulated or Unregulated	Emissions Unit	? (Check one)			
[X] The emissions unit addremissions unit.	ressed in this Em	nissions Unit Information Sec	ction is a regulated		
[] The emissions unit addremissions unit.					
3. Description of Emissions	Unit Addressed	in This Section (limit to 60 c	characters):		
Zurn RDF Spreader Stoker	r Combustion Un	uits 1-4			
4. Emissions Unit Identification	tion Number:		[] No ID		
ID: 001-004	•		[] ID Unknown		
5. Emissions Unit 6. Init Status Code: Dat	tial Startup te:	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit?		
9. Emissions Unit Comment	:: (Limit to 500 (Characters)			
		individual combustor of the distention distributed and steam electric turbine gene			

Emissions Unit Information Section 1 of 3

1.	Control Equipment/Method Descri	ption (Limit to 200 charac	ters per device or method):

There will be a spray dry scrubber (for acid gases), an activated carbon or comparable reactant injection system (for dioxin), and a fabric filter baghouse (for particulate matter and heavy metals) to control emissions. $NO_{\rm X}$ and CO controlled by good combustion practices.

2. Control Device or Method Code(s): 016, 013, 024, 025, 099

Emissions Unit Details

1.	Package Unit:		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating:	38.5 MW each (2 generators)	_
3.	Incinerator Information:		
	Dwell Temperature:	°F	

Dwell Time: seconds
Incinerator Afterburner Temperature: °F

U	n	its	1	-4
~		113		_

B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate:		345.6	mmBtu/hr
2.	Maximum Incineration Rate:	lb/hr		tons/day
3.	Maximum Process or Through	put Rate:		
4.	Maximum Production Rate:	180,000	lb steam/hr	(24-hr block average)
5.	Requested Maximum Operatin	g Schedule:		
	24	hours/day	7	days/week
	52	weeks/year	8,760	hours/year
6.	Operating Capacity/Schedule C	Comment (limit to 200 ch	aracters):	
	Maximum heat input rate is per Each boiler pair cannot exceed			

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

		_	
40 CFR 60.33b		_	
40 CFR 60.34b	-		
40 CFR 60.35b			
40 CFR 60.36b	-		
40 CFR 60.38b	-	_	
40 CFR 60.39b			
40 CFR 60.58b			
62-204.800(8), F.A.C.			
62-296.401, F.A.C.			_
62-296.500, F.A.C.			
62-297.310, F.A.C.			_
62-297.401, F.A.C.			_
62-296.416 (3), F.A.C.			
		-	

D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1.	Identification of Point on Plot Plan or Flow Diagram? 23		2. Emission Point Type Code: 3			
3.	 Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): 					
	A common stack for Units 1 and 2 that is made up of two flues, one for each unit. A common stack for Units 3 and 4 that is made up of two flues; one for each unit.					
4.	ID Numbers or Description	s of Emission Ur	nits with this Emi	ssion Point in Commo	n:	
5.	Discharge Type Code:	6. Stack Heigl	_	7. Exit Diameter:		
	V		250 feet	8.44	feet	
8.	Exit Temperature:	9. Actual Vol	umetric Flow	10. Water Vapor:		
	300 °F	Rate:			%	
11	227,000 acfm					
11.	11. Maximum Dry Standard Flow Rate: 88,250 dscfm 12. Nonstack Emission Point Height: feet					
13.	Emission Point UTM Coord	linates:				
	Zone: E	ast (km):	North	n (km):		
14.	Emission Point Comment (I	imit to 200 chara	acters):			
	Maximum dry standard flow	rate is corrected	to 7% O ₂ .			

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Emissions	Unit Information	Section	1	of	3
	CARLO TANTOT MINERION	Dection		OI.	

E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Ra	ate: Segment	1 of 3					
1. Segment Description (Pro	1. Segment Description (Process/Fuel Type) (limit to 500 characters):						
Solid waste disposal – Go	vernment; munic	ipal incineration;	refuse derived fuel				
2. Source Classification Cod 5-01-001-03	le (SCC):	3. SCC Units:					
4. Maximum Hourly Rate: 43.9	5. Maximum 262,800	Annual Rate:	6. Estimated Annual Activity Factor:				
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit: 10.4				
10. Segment Comment (limit	to 200 characters	s):					
	Max hourly rate based on min heating value of 3,940 Btu/lb. Max annual rate based on average heating value of 5,220 Btu/lb.						
			aracters):				
 Segment Description (Process/Fuel Type) (limit to 500 characters): External combustion boiler; industrial; propane 							
2. Source Classification Cod 1-02-010-02	e (SCC):	3. SCC Units					
4. Maximum Hourly Rate: 0.842	5. Maximum . 7,377		6. Estimated Annual Activity Factor:				
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit: 95.0				
10. Segment Comment (limit	to 200 characters	s):					
Limited to 80 MMBtu/hr pe	r unit.						

E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

<u>Se</u>	Segment Description and Rate: Segment 3 of 3					
1.	1. Segment Description (Process/Fuel Type) (limit to 500 characters):					
	External combustion; indu	strial; natural gas	10-100 MMBtu/l	nr		
2.	Source Classification Cod- 1-02-006-02	e (SCC):	3. SCC Units:	ic feet burned		
4.	Maximum Hourly Rate: 0.08	5. Maximum A 700.8	Annual Rate:	6. Estimated Annual Activity Factor:		
7.	Maximum % Sulfur:	8. Maximum 9	% Ash:	9. Million Btu per SCC Unit: 1000		
10.	Segment Comment (limit	to 200 characters)):			
	Limited to 80 MMBtu/hr per unit.					
Segment Description and Rate: Segment of						
		`				
	Segment Description (Prod			aracters):		
1.		cess/Fuel Type)		: :		
2.	Segment Description (Proc	cess/Fuel Type)	(limit to 500 ch			
2.	Segment Description (Prod	e (SCC):	3. SCC Units	: 6. Estimated Annual Activity		

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	016		EL
PM ₁₀	016		EL
NO _x	024	025	EL
H021	016		EL
voc			EL
со	024	025	EL
H027	016		EL
РВ	016		EL
H114	016	099	EL
SO ₂	013		EL
H106	013		EL
ріох	099		EL
H015	016		EL
FL			EL
SAM	013		EL

Emissions Unit Information Section	_1_	of _	3	Units 1-4
Pollutant Detail Information Page	1	of	15	Particulate Matter - Total

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

ro	tential/Fugitive Emissions					
1.	Pollutant Emitted:	2.	Total Percent Efficie	ency of Control:		
	PM					
3.	Potential Emissions:			4. Synthetically		
	8.3 lb/hour	29.	tons/year	Limited? []		
5.	Range of Estimated Fugitive Emissions:					
	[] 1 [] 2 [] 3		to to	ns/year		
6.	Emission Factor: 0.011 gr/dscf @ 7%	6 O ₂		7. Emissions		
	Reference: PSD Permit Condition: P	L-006D	Method Code: 0			
8.	8. Calculation of Emissions (limit to 600 characters):					
	See Attachment MIC-EU1-G8.					
9.	Pollutant Potential/Fugitive Emissions Com	ment	(limit to 200 charact	ters):		
	_					
	Emissions are per unit. Annual emissions are limited by permit condition (PSD-FL-006D).					
	<u> </u>					
Al	lowable Emissions Allowable Emissions	1	of			
1.	Basis for Allowable Emissions Code:	2.	Future Effective Da	te of Allowable		
_	OTHER	 	Emissions:	1 77 '		
3.	Requested Allowable Emissions and Units:	4.	•	de Emissions:		
	0.011 gr/dscf @ 7% O ₂		8.3 lb/hour	29.0 tons/year		
5.	Method of Compliance (limit to 60 character	:s):				
	EPA Method 5					
6.	Allowable Emissions Comment (Desc. of Op	perat	ing Method) (limit to	200 characters):		
	Downit No. DCD El 00CD Emissions					
	Permit No. PSD-FL-006D. Emissions are per	unit,				

Emissions Unit Information Section	1	_ of _	3	Units 1-4
Pollutant Detail Information Page	2	of	15	Particulate Matter – PM ₁₀

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2. Total Percent Efficiency of Control:
	PM ₁₀	•
3.	Potential Emissions: 8.3 lb/hour	4. Synthetically Limited? []
5.	Range of Estimated Fugitive Emissions:	totons/year
6.	Emission Factor: 0.011 gr/dscf @ 7%	
	Reference: PSD Permit Condition: P	SD-FL-006D Method Code:
8.	Calculation of Emissions (limit to 600 chara	cters):
	See Attachment MIC-EU1-G8.	
	•	
9.	Pollutant Potential/Fugitive Emissions Comm	ment (limit to 200 characters):
	Postacione de company Acceptant de la company de la compan	I without how a week a sendition (DOD EL OCCD)
	Emissions are per unit. Annual emissions are	e limited by permit condition (PSD-FL-006D).
All	owable Emissions Allowable Emissions	<u>1</u> of <u>1</u>
1.	Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	0.011 gr/dscf @ 7% O ₂	8.3 lb/hour 29.0 tons/year
5.	Method of Compliance (limit to 60 character	s):
	EPA Method 201 or 201A.	
6.	Allowable Emissions Comment (Desc. of Op	perating Method) (limit to 200 characters):
	Permit No. PSD-FL-006D. If compliance with PM_{10} are not needed. Annual emissions limited	

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Emissions Unit Information Section	1	of	3	Units 1-4
Pollutant Detail Information Page	3	of	15	Nitrogen Oxides

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2. Total Percent Efficie	ency of Control:
	NO _X		
3.	Potential Emissions:		4. Synthetically
	158.0 lb/hour	614.9 tons/year	Limited? []
5.	Range of Estimated Fugitive Emissions:		
	[] 1 [] 2 [] 3		ns/year
6.	Emission Factor: 250 ppmvd corrected to 7	7% O ₂	7. Emissions
	Reference: 40 CFR 60.33b(d)		Method Code: 0
8.	Calculation of Emissions (limit to 600 chara-	cters):	
	See Attachment MIC-EU1-G8.		
9.	Pollutant Potential/Fugitive Emissions Comm	ment (limit to 200 charac	ters):
	Potential emissions per unit.		
	Annual emissions limited by permit condition	(PSD-FL-006D).	
		•	
All	lowable Emissions Allowable Emissions	<u>1</u> of <u>1</u>	
1.	Basis for Allowable Emissions Code:	2. Future Effective Da	te of Allowable
_	RULE	Emissions:	
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowab	ole Emissions:
	250 ppmvd corrected to 7% O ₂	158.0 lb/hour	614.9 tons/year
5.	Method of Compliance (limit to 60 character	rs):	
	EPA Method 7E and 19, or certified CEMS		
_	Allowahla Emissions Community (Days of Co		200 ahamaatama).
6.	Allowable Emissions Comment (Desc. of Op	perating Method) (limit to	200 characters):
	40 CFR 60.33b(d). Emissions are per unit.		
!	Annual emissions limited by permit condition	(PSD-FL-006D).	
i			

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Emissions Unit Information Section $_$	1_	of	3	Units 1-4
Pollutant Detail Information Page	4	of	15	Beryllium Compounds

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

(Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2. Total Percent Efficien	ncy of Control:			
1.	H021	2. Total Foldont Emolo	noy or control.			
	<u>_</u>					
3.	Potential Emissions:		4. Synthetically			
		x 10 ⁻⁴ tons/year	Limited? []			
5.	Range of Estimated Fugitive Emissions:					
			s/year			
6.	Emission Factor: 0.46 µg/dscm corre	ected to 7% O ₂	7. Emissions			
	Reference: PSD Permit Condition: P	SD-FL-006D.	Method Code: 0			
8.	Calculation of Emissions (limit to 600 charac	cters):				
	See Attachment MIC-EU1-G8.					
9.	Pollutant Potential/Fugitive Emissions Comm	ment (limit to 200 charact	ers):			
	Potential emissions are per unit. Annual emissions limited by permit condition					
	(PSD-FL-006D).	• •				
	•					
All	Allowable Emissions 1 of 1					
1.	Basis for Allowable Emissions Code:	2. Future Effective Dat	e of Allowable			
	OTHER	Emissions:				
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowab	le Emissions:			
	0.46 μg/dscm corrected to 7% O ₂	1.5 x 10 ⁻⁴ lb/hour	5 x 10 ⁻⁴ tons/year			
5.	Method of Compliance (limit to 60 character	rs):				
	EPA Method 29.					
6.	EPA Method 29. Allowable Emissions Comment (Desc. of Opposite Comment)	perating Method) (limit to	200 characters):			
6.		perating Method) (limit to	200 characters):			
6.	Allowable Emissions Comment (Desc. of Op	perating Method) (limit to	200 characters):			

Emissions Unit Information Section _	1	of	3	Units 1-4
Pollutant Detail Information Page	5	of	15	Volatile Organic Compounds

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2.	Total Percent Efficie	ency of Control:		
	VOC			, ,		
3.	Potential Emissions:			4. Synthetically		
	5.5 lb/hour	19.	1 tons/year	Limited? [_]		
5.	Range of Estimated Fugitive Emissions:					
	[] 1 [] 2 [] 3		to to	ns/year		
6.	Emission Factor: 25 ppmvd correc	ted 1	o 7% O ₂	7. Emissions		
	Reference: PSD permit Condition: P	SD-F	L-006D	Method Code: 0		
8.	Calculation of Emissions (limit to 600 charac	cters):			
	See Attachment MIC-EU1-G8.					
9.	Pollutant Potential/Fugitive Emissions Comm	ment	(limit to 200 charac	ters):		
	Potential emissions are per unit. Annual emis	eeio	ne limited by permit (condition		
	Potential emissions are per unit. Annual emissions limited by permit condition. Evidence must be furnished to FDEP to show that the facility is emitting less than					
	100 TPY or obtain legally enforceable limits (I	PSD-	FL-006D).			
∟ All	owable Emissions Allowable Emissions		of			
	Basis for Allowable Emissions Code:	12	Future Effective Da	ate of Allowable		
1.	Basis for Allowable Emissions Code:	2.	Emissions:	ile of Allowable		
3.	Requested Allowable Emissions and Units:	4.	Equivalent Allowab	ole Emissions:		
			lb/hour	tons/year		
5.	Method of Compliance (limit to 60 character	:s):				
	•	-				
6.	Allowable Emissions Comment (Desc. of Op	erat	ing Method) (limit to	o 200 characters):		
	(= 120, 01 01		,,,	,		

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Emissions Unit Information Section	1	of _	3	Units 1-4
Pollutant Detail Information Page	6	of	15	Carbon Monoxide

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

FO	tential/Fugitive Emissions					
1.	Pollutant Emitted:	2.	Tota	Percent Effic	iency	of Control:
	СО					
3.	Potential Emissions:				4.	Synthetically
	76.9 lb/hour	267.7		tons/year		Limited? []
5.	Range of Estimated Fugitive Emissions:					
					ons/y	
6.	Emission Factor: 200 ppmvd corre	ected	to 7%	% O₂	7.	Emissions Method Code
	Reference: 40 CFR 60.34b					Method Code: 0
8.	Calculation of Emissions (limit to 600 chara	cters):			
	See Attachment MIC-EU1-G8.					
		,				
9.	Pollutant Potential/Fugitive Emissions Com	ment	(lim	it to 200 chara	cters):
	Production amington and accounts					
	Potential emissions are per unit. Annual emissions limited by permit condition (PSD-FL-006D).					
	•					
All	owable Emissions Allowable Emissions	1	of_	1		
1.	Basis for Allowable Emissions Code:	2.	Futu	re Effective I	Date of	of Allowable
	RULE			ssions:		
3.	Requested Allowable Emissions and Units:	4.	Equ	ivalent Allow	able I	Emissions:
1	200 ppmvd corrected to 7% O ₂			76.9 lb/hour	•	267.7 tons/year
5.	Method of Compliance (limit to 60 character	rs):				
	EPA Method 10					
6.	Allowable Emissions Comment (Desc. of Op	perati	ng N	lethod) (limit	to 20	0 characters):
	40 CFR 60.34b. Emissions are per unit.					
	and por units					

Emissions Unit Information Section	_1_	of .	3	_
Pollutant Detail Information Page	7	of	15	

Cadmium

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

	tentiavi ugitive Dimssions					
1.	Pollutant Emitted:	2. Total Percent Efficie	ency of Control:			
	H027					
3.	Potential Emissions:	<u> </u>	4. Synthetically			
	0.005 lb/hour	0.027 tons/year	Limited? []			
5.	Range of Estimated Fugitive Emissions:					
	_ [] 1 [] 2 [] 3	to to:	ns/year			
6.	Emission Factor: 15 µg/dscm cor	rected to 7% O ₂	7. Emissions			
	Reference: 40 CFR 60.33b(2)(i)		Method Code: 0			
8.	Calculation of Emissions (limit to 600 chara	cters):				
	0 444					
	See Attachment MIC-EU1-G8.					
9.	Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 charac	ters):			
	Potential emissions are per unit. Annual emissions are based on permit condition					
	(PSD-FL-006D).					
All	lowable Emissions Allowable Emissions	<u>1</u> of <u>1</u>				
1.	Basis for Allowable Emissions Code:	2. Future Effective Da	ite of Allowable			
	RULE	Emissions:				
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowab	ole Emissions:			
	15 μg/dscm corrected to 7% O ₂	0.005 lb/hour	0.027 tons/year			
5.	Method of Compliance (limit to 60 characte	rs):				
	EPA Method 29					
6.	Allowable Emissions Comment (Desc. of O	perating Method) (limit to	o 200 characters):			
	40 CFR 60.33b(2)(i). Emissions are per unit.					
	.,,,	•				

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Emissions Unit Information Section $_$	1	of	3	Units 1-4
Pollutant Detail Information Page	8	of	15	Lead

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

<u> </u>	tentian rugitive Emissions						
1.	Pollutant Emitted:	2.	Total Percent Efficiency of Control:				
	PB						
3.	Potential Emissions:		4. Synthetically				
L	0.13 lb/hour	0.4	tons/year Limited? []				
5.	Range of Estimated Fugitive Emissions:						
			to tons/year				
6.	Emission Factor: 380 μ g/dscm at 7	% O	7. Emissions Method Code:				
	Reference: PSD Permit Condition: P	SD-I	FL-006D Method Code.				
8.	Calculation of Emissions (limit to 600 chara	cters	s):				
	See Attachment MIC-EU1-G8.						
1							
9.	Pollutant Potential/Fugitive Emissions Com	meni	t (limit to 200 characters):				
١,٠	Tonutant Potential/Pugitive Emissions Com	mem	t (mint to 200 characters).				
	Potential emissions are per unit. Annual emi (PSD-FL-006D).	ssio	ns limited by permit condition				
	•						
Al	lowable Emissions Allowable Emissions	1	of 1				
1.	Basis for Allowable Emissions Code: OTHER	2.	Future Effective Date of Allowable Emissions:				
3.	Requested Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:				
	380 µg/dscm at 7% O2		0.13 lb/hour 0.44 tons/year				
5.	Method of Compliance (limit to 60 character	rs):	-				
	-	,					
	EPA Method 29						
6.	Allowable Emissions Comment (Desc. of O	perat	ting Method) (limit to 200 characters):				
	Permit No. PSD-FL-006D. Emissions are per	unit					
	remin No. Fob-FE-0000. Emissions are per	aiiit.	•				
1							

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Emissions Unit Information Section $_$	1	of	3	Units 1-4
Pollutant Detail Information Page	9	of	15	Mercury Compounds

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

1.	Pollutant Emitted:	2. Total Percent Efficiency of Control:
١.		2. Total refeelt Efficiency of Control.
	H114	· · · · · · · · · · · · · · · · · · ·
3.	Potential Emissions:	4. Synthetically
		0.080 tons/year Limited? []
5.	Range of Estimated Fugitive Emissions:	
<u> </u>		to to syear
6.	Emission Factor: 70 μ g/dscm core	rected to 7% O ₂ 7. Emissions
	Reference: PSD Permit No. PSD-FL-0	Method Code: 0
8.	Calculation of Emissions (limit to 600 charac	cters):
	See Attachment MIC-EU1-G8.	
9.	Pollutant Potential/Fugitive Emissions Comm	ment (limit to 200 characters):
	Potential emissions are per unit. Annual emis	esions are limited by permit condition
	(PSD-FL-006D).	solons are minica by permit contains
L	•	
All	owable Emissions Allowable Emissions	<u>1</u> of <u>1</u>
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
	OTHER	Emissions:
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	70 µg/dscm @ 7% O₂	0.023 lb/hour 0.080 tons/year
5.	Method of Compliance (limit to 60 character	rs):
	EPA Method 29	
6.	Allowable Emissions Comment (Desc. of Op	perating Method) (limit to 200 characters):
	DOD Dawell No. DOD EL COOD No	000/ duction and its a subjective is least
	PSD Permit No. PSD-FL-006D. Numeric limit stringent. Emissions are per unit.	or 80% reduction applies, whichever is least
	The second section of the second section second sec	

Emissions Unit Information Section	1	of	3
Pollutant Detail Information Page	10	οf	15

Sulfur Dioxide

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

10	tentiabl agitive Emassions		
1.	Pollutant Emitted:	2.	Total Percent Efficiency of Control:
	SO₂		
3.	Potential Emissions:		4. Synthetically
	25.5 lb/hour	214.:	
5.	Range of Estimated Fugitive Emissions:		
	[]1 []2 []3	_	totons/year
6.	Emission Factor: 29 ppmvd corre	cted	
	Reference: 40 CFR 60.33b(b)(3)(i)		Method Code: 0
8.	Calculation of Emissions (limit to 600 chara	cters	s):
	One American MIO FILE OF		
	See Attachment MIC-EU1-G8.		
9.	Pollutant Potential/Fugitive Emissions Com	ment	t (limit to 200 characters):
-			(
	Potential emissions are per unit. Emission fa		
	Annual emissions based on permit specific c	ondi	ition (PSD-FL-006D).
	•		
<u>Al</u>	lowable Emissions Allowable Emissions	1	of <u>1</u>
1.	Basis for Allowable Emissions Code:	2.	Future Effective Date of Allowable
	RULE		Emissions:
3.	Requested Allowable Emissions and Units:	4.	Equivalent Allowable Emissions:
	29 ppmvd corrected to 7% O ₂		25.5 lb/hour 214.2 tons/year
5.	Method of Compliance (limit to 60 character	:(s	
	EDA Malland On and Life		
	EPA Method 6c and 19		
6.	Allowable Emissions Comment (Desc. of Op	perat	ting Method) (limit to 200 characters):
	40 CFR 60.33b(b)(3)(i). Numeric emission I	imit	applies or 75% removal, whichever is
	least stringent. Emission factor is based on		
	unit.		

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Emissions Unit Information Section	1	of	3	Units 1-
Pollutant Detail Information Page	11	of	15	Hydrochloric Acid

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2. To	tal Percent Effici	ency of Control:
	H106			
3.	Potential Emissions: 14.3 lb/hour	57.1	tons/year	4. Synthetically Limited? []
5.	Range of Estimated Fugitive Emissions:			_
_				ons/year
6.	Emission Factor: 29 ppmvd corre	cted to	7% O₂	7. Emissions
	Reference: 40 CFR 60.33b(b)(3)(i)			Method Code: 0
8.	Calculation of Emissions (limit to 600 chara	cters):		
	See Attachment MIC-EU1-G8.			
9.	Pollutant Potential/Fugitive Emissions Comm	ment (li	mit to 200 charac	eters):
	Potential emissions are per unit.			
	. Otomia omosiono aro por anna			
Al	owable Emissions Allowable Emissions	1 of	1	
1.	Basis for Allowable Emissions Code:			ate of Allowable
_	RULE		nissions:	
3.	Requested Allowable Emissions and Units:	4. E	quivalent Allowal	
_	29 ppmvd corrected to 7% O ₂		14.3 lb/hour	57.1 tons/year
5.	Method of Compliance (limit to 60 character	's):		
	EPA Method 26 or 26A			
6.	Allowable Emissions Comment (Desc. of Op	erating	Method) (limit t	o 200 characters):
	40 CFR 60.33b(b)(3)(i). Numeric emission I	imit or	05% removal an	nlies whichever is
	least stringent. Emissions are per unit.	mint Of	35/0 Temoval ap	plies, Willelievel 13

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Emissions Unit Information Section	1	of	3_	Units 1-4
Pollutant Detail Information Page	12	of	15	Dioxins/Furans

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2. Total Percent Efficiency of Control:
	DIOX	·
3.	Potential Emissions:	4. Synthetically
L_	9.9 x 10 ⁻⁶ lb/hour 3.8	x 10 ⁻⁵ tons/year Limited? []
5.	Range of Estimated Fugitive Emissions:	
<u> </u>		totons/year
6.	_	rected to 7% O ₂ 7. Emissions Method Code:
	Reference: 40 CFR 60.33b(c)(1)(ii)	0
8.	Calculation of Emissions (limit to 600 chara	cters):
	See Attachment MIC-EU1-G8.	
	Oce Attachment and Ec. Co.	
<u></u>	Dille De diameter De de	(II) 1 (1) (1) (1)
9.	Pollutant Potential/Fugitive Emissions Comm	ment (limit to 200 characters):
	Potential emissions are per unit as total tetra	-through octa-dioxins/furans. Annual
	emissions are limited by permit condition (PS	SD-FL-006D).
	•	
All	owable Emissions Allowable Emissions	<u>1</u> of <u>1</u>
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
<u> </u>	RULE	Emissions:
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	30 ng/dscm corrected to 7% O ₂	3.8 x 10 ⁻⁶ lb/hour 3.8 x 10 ⁻⁵ tons/year
5.	Method of Compliance (limit to 60 character	rs):
	EPA Method 23	
<u> </u>		
6.	Allowable Emissions Comment (Desc. of Op	perating Method) (limit to 200 characters):
	40 CFR 60.33b(c)(1)(ii). Emissions are per un	it as total tetra - through octa-dioxin/furans

Emissions Unit Information Section	1	of _	3	Units 1-4
Pollutant Detail Information Page	13	of	15	Arsenic Compounds

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2. Total Percent Efficiency of Control:
	H015	
3.	Potential Emissions: 0.0031 lb/hour	4. Synthetically Limited? []
5.	Range of Estimated Fugitive Emissions:	
		totons/year
6.	Emission Factor: 9.3 µg/dscm core	rrected to 7% O ₂ 7. Emissions
	Reference: PSD Permit Condition: (F	PSD-FL-006D) Method Code:
8.	Calculation of Emissions (limit to 600 chara-	acters):
	See Attachment MIC-EU1-G8.	
9.	Pollutant Potential/Fugitive Emissions Comm	ment (limit to 200 characters):
	Potential emissions are per unit. Annual emis	issions are limited by a permit condition
	(PSD-FL-006D).	issions are ninited by a permit condition
	•	
Al	lowable Emissions Allowable Emissions	<u>1</u> of <u>1</u>
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
<u> </u>	OTHER	Emissions:
3.	Requested Allowable Emissions and Units:	•
	9.3 μg/dscm corrected to 7% O ₂	0.0031 lb/hour 0.011 tons/year
5.	Method of Compliance (limit to 60 character	rs):
	EPA Method 108 or 29.	
6.	Allowable Emissions Comment (Desc. of Op	perating Method) (limit to 200 characters):
	PSD Permit No. PSD-FL-006D. Annual (PSD-FL-006D). Emissions are per unit.	emissions limited by permit condition

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Emissions Unit Information Section	1	of	3
Pollutant Detail Information Page	14	of	15

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2. Total Percent Efficiency of Control:
	FL	
3.	Potential Emissions:	4. Synthetically
	0.278 lb/hour	0.97 tons/year Limited? []
5.	Range of Estimated Fugitive Emissions:	
	[]1 []2 []3	to tons/year
6.	Emission Factor: 840 µg/dscm cor	rected to 7% O ₂ 7. Emissions
	Reference: PSD Permit Condition (Ps	Method Code: 0
8.	Calculation of Emissions (limit to 600 chara	eters):
	See Attachment MIC-EU1-G8.	
	See Attachment Mio-Eo i-Go.	
9.	Pollutant Potential/Fugitive Emissions Comm	nent (limit to 200 characters):
	-	
	Potential emissions are per unit. Annual emis	ssions are limited by permit condition
	(PSD-FL-006D).	
	•	
<u>All</u>	owable Emissions Allowable Emissions	<u>1</u> of <u>1</u>
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
	OTHER	Emissions:
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	840 μg/dscm corrected to 7% O ₂	0.278 lb/hour 0.97 tons/year
5.	Method of Compliance (limit to 60 character	s):
	EPA Method 13A or 13B.	
	EPA Wethod 15A of 15B.	
6.	Allowable Emissions Comment (Desc. of Op	erating Method) (limit to 200 characters):
	PSD Permit No. PSD-FL-006D. Potential e	missions are per unit. Annual emissions
	limited by permit condition (PSD-FL-006D). E	
	,	-

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Units 1-4

Fluorides

Emissions Unit Information Section	1	of	3
Pollutant Detail Information Page	15	οf	15

Sulfuric Acid Mist

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

<u> </u>	tentian agree Dimissions					
1.	Pollutant Emitted:	2.	Tota	l Percent Effici	ency	of Control:
	SAM					
3.	Potential Emissions:				4.	Synthetically
	2.8 lb/hour	9.	8	tons/year		Limited? []
5.	Range of Estimated Fugitive Emissions:					
					ns/y	
6.	Emission Factor: 2.1 ppmvd corre	cted	to 79	% O₂	7.	Emissions Method Code:
	Reference: PSD Permit Condition: P	'SD-F	FL-00	6D		0
8.	Calculation of Emissions (limit to 600 charac	cters):			
	See Attachment MIC-EU1-G8.					
	Pollutant Potential/Evoitive Emissions Com-			it to 200 abaro		<u> </u>
٦٠.	9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):					
	Emissions are per unit. Annual emissions are	e lim	ited l	y permit condi	tion	(PSD-FL-006D).
	·		_			
Al	owable Emissions Allowable Emissions	1	of_	1		
1.	Basis for Allowable Emissions Code:	2.		ıre Effective D	ate o	of Allowable
2	OTHER Paguested Allowable Emissions and United	 _		ssions:	hla I	- Emissions:
<i>)</i> 5.	Requested Allowable Emissions and Units:	4.	Equ	ivalent Allowa		
	2.1 ppmvd corrected to 7% O ₂			2.8 lb/hour		9.8 tons/year
5.	Method of Compliance (limit to 60 character	rs):				
	EPA Method 8					
6.	Allowable Emissions Comment (Desc. of Op	perat	ing N	Method) (limit t	o 20	0 characters):
	PSD Permit No. PSD-FL-006D. Potential emis	ssior	s are	per unit. Anni	ual e	misions limited
	by permit condition (PSD-FL-006D).			har min rame	3.	

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Emissions Unit Information Section 1 of 3	Emissions	Unit	Information	Section	1	of	3
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H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

	(Only Regulated Emissions Units Subject to a VE Limitation)				
<u>Vi</u>	Visible Emissions Limitation: Visible Emissions Limitation of				
1.	Visible Emissions Subtype: VE10	2. Basis for Allowable Opa [X] Rule [acity:] Other		
3.	1 1 2	ceptional Conditions:	% min/hour		
4.	Method of Compliance:				
	EPA Method 9				
5.	Visible Emissions Comment (limit to 200 cl	naracters):	.		
	40 CFR 60, Subpart Cb. 10% based on 6 min	utes block arithmetic mean.			
L_					
<u>Co</u>	I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring) Continuous Monitoring System: Continuous Monitor1 of10				
1.	Parameter Code: EM	2. Pollutant(s): NO _x			
3.	CMS Requirement:	[X] Rule []	Other		
4.	Monitor Information: Manufacturer: KVB Analect Model Number:	Serial Number:			
5.	Installation Date:	6. Performance Specificati	on Test Date:		
7.	Continuous Monitor Comment (limit to 200	characters):			
	40 CFR 60.58b and 62-204.800(8), F.A.C.				

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Emissions	Unit Information	Section	1	of	3
	Onic minor manion	Dection	•	O.	

H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

$\overline{}$		ons Limitation of		
1.	Visible Emissions Subtype:	Basis for Allowable Opacity: Nule Other		
3.	Requested Allowable Opacity:			
	Normal Conditions: % Ex	cceptional Conditions: %		
	Maximum Period of Excess Opacity Allowe	ed: min/hour		
4.	Method of Compliance:	<u>-</u>		
5.	Visible Emissions Comment (limit to 200 c	haracters):		
I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring) Continuous Monitoring System: Continuous Monitor				
		Monitor <u>2</u> of <u>10</u>		
	Parameter Code: EM			
1.		Monitor <u>2</u> of <u>10</u>		
1.	Parameter Code: EM CMS Requirement: Monitor Information:	Monitor 2 of 10 2. Pollutant(s): CO		
1.	Parameter Code: EM CMS Requirement: Monitor Information: Manufacturer: KVB Analect	Monitor of		
1. 3. 4.	Parameter Code: EM CMS Requirement: Monitor Information: Manufacturer: KVB Analect Model Number:	Monitor		
1.	Parameter Code: EM CMS Requirement: Monitor Information: Manufacturer: KVB Analect	Monitor of		
1. 3. 4.	Parameter Code: EM CMS Requirement: Monitor Information: Manufacturer: KVB Analect Model Number:	Monitor		
1. 3. 4.	Parameter Code: EM CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	Monitor		

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Emissions	Unit	Information	Section	1	of	3
TATELOUIVE			Section		V L	

H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

	sible Emissions Limitation: Visible Emiss	ons Limitation of				
1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity:				
<u> </u>	Decree de dell'emplete Occasion	[] Rule [] Other				
3.	Requested Allowable Opacity: Normal Conditions: % Ex	cceptional Conditions: %				
	Maximum Period of Excess Opacity Allow					
4.	Method of Compliance:	-				
5.	Visible Emissions Comment (limit to 200 c	haracters):				
	`	,				
	_	NITOR INFORMATION				
	•	(Only Regulated Emissions Units Subject to Continuous Monitoring)				
<u>Co</u>						
	ontinuous Monitoring System: Continuous	Monitor <u>3</u> of <u>10</u>				
1.	Parameter Code: VE	Monitor <u>3</u> of <u>10</u> 2. Pollutant(s):				
1. 3.	Parameter Code: VE	2. Pollutant(s):				
3.	Parameter Code: VE CMS Requirement:	2. Pollutant(s):				
	Parameter Code: VE CMS Requirement: Monitor Information:	2. Pollutant(s):				
3.	Parameter Code: VE CMS Requirement: Monitor Information: Manufacturer: KVB Analect	2. Pollutant(s):				
3.	Parameter Code: VE CMS Requirement: Monitor Information:	2. Pollutant(s): [X] Rule [] Other Serial Number:				
3. 4. 5.	Parameter Code: VE CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date:				
3.	Parameter Code: VE CMS Requirement: Monitor Information: Manufacturer: Model Number: KVB Analect	Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date:				
3. 4. 5.	Parameter Code: VE CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date: Continuous Monitor Comment (limit to 200)	Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date:				
3. 4. 5.	Parameter Code: VE CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date:				
3. 4. 5.	Parameter Code: VE CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date: Continuous Monitor Comment (limit to 200)	Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date:				
3. 4. 5.	Parameter Code: VE CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date: Continuous Monitor Comment (limit to 200)	Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date:				

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u	nı	ts		-4

Emissions Unit Information Section	1	of	· 3	
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H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

<u>Visible I</u>	Emissions Limitation: Visible Emissi	ons Limitation of_	
1. Visib	ole Emissions Subtype:	2. Basis for Allowable O	pacity:
		[] Rule	[] Other
	ested Allowable Opacity:		
Norm	nal Conditions: % Ex	ceptional Conditions:	%
Maxi	mum Period of Excess Opacity Allow	ed:	min/hour
4. Meth	od of Compliance:		
4. 1410111	od of Comphance.		
5. Visib	la Emissions Commant (limit to 200 a	horostors):	
3. VISID	le Emissions Comment (limit to 200 c	naracters):	
		NITOR INFORMATION	
	(Only Regulated Emissions Units	Subject to Continuous M	onitoring)
Continue	ous Monitoring System: Continuous	Monitor <u>4</u> of <u>10</u>	-
1. Paran	neter Code: EM	2. Pollutant(s): SO ₂	
3. CMS	Requirement:	[X] Rule [] Other
4. Moni	tor Information:		
Man	ufacturer: KVB Analect		
Mod	el Number:	Serial Number:	
5. Instal	lation Date:	6. Performance Specifica	ation Test Date:
7. Conti	nuous Monitor Comment (limit to 200	 characters):	
/. Conti	ndous Monitor Comment (mint to 200	Characters).	
40 CF	R 60.58b and 62-204.800(8), F.A.C.		
	• •		

H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

<u>Vi</u>	sible Emissions Limitation: Visible Emissi	ons Limitation of
1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity:
		[] Rule [] Other
3.	Requested Allowable Opacity:	
		ceptional Conditions: %
	Maximum Period of Excess Opacity Allowe	ed: min/hour
	Mathad of Compliance	- *
4.	Method of Compliance:	
5.	Visible Emissions Comment (limit to 200 c	haracters):
	I CONTINUOUS MO	NITOR INFORMATION
		Subject to Continuous Monitoring)
α-		
<u>Co</u>	ontinuous Monitoring System: Continuous	Monitor 5 of 10
1.	Parameter Code: O ₂	2. Pollutant(s):
3.	CMS Requirement:	[X] Rule [] Other
<u> </u>	·	
4.		
	Manufacturer: KVB Analect	
	Model Number:	Serial Number:
5.	Installation Date:	6. Performance Specification Test Date:
_	G .:	
7.	Continuous Monitor Comment (limit to 200	characters):
	40 CFR 60.58b and 62-204.800(8), F.A.C.	
	40 01 11 00.000 and 02 204.000(0), 1 .A.O.	
1		

Emissions	Unit	Information	Section	1	of	3
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H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

<u>Visit</u>	ble Emissions Limitation: Visible Emissi	ons Limitation of		
1. V	Visible Emissions Subtype:	2. Basis for Allowable Opacity:		
		[] Rule [] Other		
3. R	Requested Allowable Opacity:			
N	Normal Conditions: % Ex	ceptional Conditions: %		
l N	Maximum Period of Excess Opacity Allower	ed: min/hour		
<u> </u>				
4. N	Method of Compliance:			
5. V	Visible Emissions Comment (limit to 200 c	haracters):		
	5. Visible Elinissions Comment (infint to 200 characters).			
	A CONTRACTION OF THE	NUMBER ANTIQUES A MECANI		
		NITOR INFORMATION		
	(Only Regulated Emissions Units	Subject to Continuous Monitoring)		
Continuous Monitor 6 of 10				
1. P	arameter Code: See Comment	2. Pollutant(s):		
2 0	TMC Dequirements	[VI Dula [] Other		
3. C	CMS Requirement:	[X] Rule [] Other		
4. M	Monitor Information:	-		
1	Manufacturer:			
N	Model Number:	Serial Number:		
5. Ir	11 . 2			
• •	nstallation Date:	6. Performance Specification Test Date:		
	Continuous Monitor Comment (limit to 200			
7. C	Continuous Monitor Comment (limit to 200	characters):		
7. C	Continuous Monitor Comment (limit to 200 otal steam production (lb/hr, press., temp)	characters):		
7. C	Continuous Monitor Comment (limit to 200	characters):		
7. C	Continuous Monitor Comment (limit to 200 otal steam production (lb/hr, press., temp)	characters):		
7. C	Continuous Monitor Comment (limit to 200 otal steam production (lb/hr, press., temp)	characters):		

Emissions Un	it Information	Section	1	of	3
LIMITORION CIT		Decion		O.	

H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

<u>Vi</u>	sible Emissions Limitation: Visible Emissi	ons Limitation of			
1.	Visible Emissions Subtype:	Basis for Allowable Opacity: Rule Other			
3.	Requested Allowable Opacity: Normal Conditions: % Ex Maximum Period of Excess Opacity Allower	cceptional Conditions: % ed: min/hour			
4.	Method of Compliance:				
5.	Visible Emissions Comment (limit to 200 c	haracters):			
<u>Co</u>	I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring) Continuous Monitoring System: Continuous Monitor7 of10				
1.	Parameter Code: TEMP	2. Pollutant(s):			
3.	CMS Requirement:	[X] Rule [] Other			
4.	Monitor Information: Manufacturer: KVB Analect Model Number:	Serial Number:			
5.	Installation Date:	6. Performance Specification Test Date:			
7.	7. Continuous Monitor Comment (limit to 200 characters): Measure temp. of flue gas at fabric filter inlet as per 40 CFR 60.58b and 62-204.800(8), F.A.C.				

Units	1-4
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Emissions	Unit	Information	Section	1	Ωf	3	
CHIBSIONS	UIIIL	IIIIOIIIIauoii	Section	•	OI	3	

H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

Vi	sible Emissions Limitation: Visible Emissi	ons Limitation of	
1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity:	
		[] Rule _ [] Other	
3.	Requested Allowable Opacity:		
		ceptional Conditions:	
	Maximum Period of Excess Opacity Allowe	ed: min/hou	ır
4.	Method of Compliance:		
5.	Visible Emissions Comment (limit to 200 c	haracters):	
Co	(Only Regulated Emissions Units	NITOR INFORMATION Subject to Continuous Monitoring)	
<u>Co</u>	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous	Subject to Continuous Monitoring) Monitor 8 of 10	
<u>Co</u>	(Only Regulated Emissions Units	Subject to Continuous Monitoring)	
1. 3.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous	Subject to Continuous Monitoring) Monitor 8 of 10	
1.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: See Comment	Subject to Continuous Monitoring) Monitor 8 of 10 2. Pollutant(s):	
1.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: See Comment CMS Requirement: Monitor Information: Manufacturer:	Subject to Continuous Monitoring) Monitor 8 of 10 2. Pollutant(s):	
1.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: See Comment CMS Requirement: Monitor Information: Manufacturer: Model Number:	Subject to Continuous Monitoring) Monitor8of10 2. Pollutant(s): [X] Rule [] Other Serial Number:	
1.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: See Comment CMS Requirement: Monitor Information: Manufacturer:	Subject to Continuous Monitoring) Monitor 8 of 10 2. Pollutant(s): [X] Rule [] Other	
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: See Comment CMS Requirement: Monitor Information: Manufacturer: Model Number:	Subject to Continuous Monitoring) Monitor 8 of 10 2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date:	
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: See Comment CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	Subject to Continuous Monitoring) Monitor8of10 2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date: characters): ers as per 40 CFR 60.58b and 62-204.800(8)	

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Emissions	Unit	Information	Section	1	of	3
	~	***********	Section		O.	_

Units 1-4

H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

<u>Vi</u>	sible Emissions Limitation: Visible Emissi	ions Limitation of
1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity:
		[] Rule [] Other
3.	Requested Allowable Opacity:	. 10 12
		sceptional Conditions: %
	Maximum Period of Excess Opacity Allowe	ed: min/hour
4.	Method of Compliance:	
5.	Visible Emissions Comment (limit to 200 c	haracters):
	`	•
	I. CONTINUOUS MO	NITOR INFORMATION
		NITOR INFORMATION Subject to Continuous Monitoring)
<u>C</u> o		Subject to Continuous Monitoring)
	(Only Regulated Emissions Units	Subject to Continuous Monitoring)
	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous	Subject to Continuous Monitoring) Monitor 9 of 10
1. 3.	(Only Regulated Emissions Units entinuous Monitoring System: Continuous Parameter Code: See Comment	Subject to Continuous Monitoring) Monitor9of10 2. Pollutant(s):
1. 3.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: See Comment CMS Requirement:	Subject to Continuous Monitoring) Monitor9of10 2. Pollutant(s):
1. 3.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: See Comment CMS Requirement: Monitor Information:	Subject to Continuous Monitoring) Monitor9of10 2. Pollutant(s):
1. 3.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: See Comment CMS Requirement: Monitor Information: Manufacturer:	Subject to Continuous Monitoring) Monitor9of10 2. Pollutant(s): [X] Rule [] Other
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: See Comment CMS Requirement: Monitor Information: Manufacturer: Model Number:	Subject to Continuous Monitoring) Monitor9 _ of10 2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date:
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: See Comment CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date: Continuous Monitor Comment (limit to 200	Subject to Continuous Monitoring) Monitor9of10 2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date: characters):
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: See Comment CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	Subject to Continuous Monitoring) Monitor9of10 2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date: characters):
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: See Comment CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date: Continuous Monitor Comment (limit to 200	Subject to Continuous Monitoring) Monitor9of10 2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date: characters):
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: See Comment CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date: Continuous Monitor Comment (limit to 200	Subject to Continuous Monitoring) Monitor9of10 2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date: characters):
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: See Comment CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date: Continuous Monitor Comment (limit to 200	Subject to Continuous Monitoring) Monitor9of10 2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date: characters):

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H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

<u>Vi</u>	sible Emissions Limitation: Visible Emissi	ions Limitation of
1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity:
		[] Rule [] Other
3.	Requested Allowable Opacity:	
		cceptional Conditions: %
	Maximum Period of Excess Opacity Allowe	ed: min/hour
<u> </u>	N. (1. CO 1:	
4.	Method of Compliance:	
5.	Visible Emissions Comment (limit to 200 c	haracters):
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	I CONTINUOUS MO	NITOD INFORMATION
		NITOR INFORMATION Subject to Continuous Monitoring)
	(Only Regulated Emissions Units	Subject to Continuous Monitoring)
<u>C</u> o		Subject to Continuous Monitoring)
<u>Co</u>	(Only Regulated Emissions Units	Subject to Continuous Monitoring)
1.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: TEMP	Subject to Continuous Monitoring) Monitor 10 of 10 2. Pollutant(s):
1. 3.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous	Subject to Continuous Monitoring) Monitor 10 of 10
1.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: TEMP CMS Requirement: Monitor Information:	Subject to Continuous Monitoring) Monitor 10 of 10 2. Pollutant(s):
3.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: TEMP CMS Requirement: Monitor Information: Manufacturer: KVB Analect	Subject to Continuous Monitoring) Monitor 10 of 10 2. Pollutant(s): [X] Rule [] Other
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: TEMP CMS Requirement: Monitor Information: Manufacturer: KVB Analect Model Number:	Subject to Continuous Monitoring) Monitor10 of10 2. Pollutant(s): [X] Rule [] Other Serial Number:
3.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: TEMP CMS Requirement: Monitor Information: Manufacturer: KVB Analect	Subject to Continuous Monitoring) Monitor 10 of 10 2. Pollutant(s): [X] Rule [] Other
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: TEMP CMS Requirement: Monitor Information: Manufacturer: KVB Analect Model Number: Installation Date:	Subject to Continuous Monitoring) Monitor10of10 2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date:
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: TEMP CMS Requirement: Monitor Information: Manufacturer: KVB Analect Model Number:	Subject to Continuous Monitoring) Monitor10of10 2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date:
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: TEMP CMS Requirement: Monitor Information: Manufacturer: KVB Analect Model Number: Installation Date: Continuous Monitor Comment (limit to 200	Subject to Continuous Monitoring) Monitor 10 of 10 2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date: characters):
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: TEMP CMS Requirement: Monitor Information: Manufacturer: KVB Analect Model Number: Installation Date: Continuous Monitor Comment (limit to 200	Subject to Continuous Monitoring) Monitor10of10 2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date:
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: TEMP CMS Requirement: Monitor Information: Manufacturer: KVB Analect Model Number: Installation Date: Continuous Monitor Comment (limit to 200 Temperature of combustion zone as per 40 C	Subject to Continuous Monitoring) Monitor 10 of 10 2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date: characters):
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: TEMP CMS Requirement: Monitor Information: Manufacturer: KVB Analect Model Number: Installation Date: Continuous Monitor Comment (limit to 200 Temperature of combustion zone as per 40 C	Subject to Continuous Monitoring) Monitor 10 of 10 2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date: characters):
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: TEMP CMS Requirement: Monitor Information: Manufacturer: KVB Analect Model Number: Installation Date: Continuous Monitor Comment (limit to 200 Temperature of combustion zone as per 40 C	Subject to Continuous Monitoring) Monitor 10 of 10 2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date: characters):

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

1.	Process Flow Diagram
	[X] Attached, Document ID: MCI-EU1-J1 [] Not Applicable [] Waiver Requested
2.	Fuel Analysis or Specification
	[X] Attached, Document ID: MCI-EU1-J2 [] Not Applicable [] Waiver Requested
3.	Detailed Description of Control Equipment
	[X] Attached, Document ID: MCI-EU1-J3 [] Not Applicable [] Waiver Requested
4.	1 0
	[X] Attached, Document ID: MCI-EU1-J4 [] Not Applicable [] Waive
5.	Compliance Test Report
	[] Attached, Document ID:
	Previously submitted, Date:
	[X] Not Applicable
6.	Procedures for Startup and Shutdown
	[X] Attached, Document ID: MCI-EU1-J6 [] Not Applicable [] Waiver Requested
7.	Operation and Maintenance Plan
	[X] Attached, Document ID: MCI-EU1-J7 [] Not Applicable [] Waiver Requested
8.	Supplemental Information for Construction Permit Application
	[] Attached, Document ID: [X] Not Applicable
9.	Other Information Required by Rule or Statute
	[] Attached, Document ID: [X] Not Applicable
10	. Supplemental Requirements Comment:

Emissions Unit	Information Section	1 of	3
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Units 1-4

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[X] Attached, Document ID: MIC-FE-C10 [] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[X] Attached, Document ID: MIC-FE-C12 [] Not Applicable
[**] ********************************
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part Application (Hard-copy Required)
[] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:
[] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:
[] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:
· · · · · · · · · · · · · · · · · · ·
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:
[] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:
[X] Not Applicable

ATTACHMENT MIC-EU1-G8 EMISSION CALCULATIONS

Attachment MIC-EU1-G8. Summary of Maximum Emission Rates of Regulated Pollutants for Units 1 through 4, Dade County Resource Recovery

	Basis of	Emission Factor		mum Emission ite per Unit		Total Annual Emission Rate For All Four Units
Regulated Pollutant	Emission Factor	(at 7% O ₂)	Maximum 1-hr *	Average b	(TPY) °	(TPY)
Ü		(a.v.a.a. 2	(lb/hr)	(lb/hr)		()
Particulate Matter (TSP)	40 CFR 60, Subpart Cb	0.011 gr/dscf	8.32	8.25	29.0	116.0
Particulate Matter (PM ₁₀)	40 CFR 60, Subpart Cb	0.011 gr/dscf	8.32	8.25	29.0	116.0
Sulfur Dioxide	40 CFR 60, Subpart Cb	29 ppmvd d	25.50	23.19	214.2	856.8
lydrogen Chloride	40 CFR 60, Subpart Cb	29 ppmvd °	14.34	13.04	57.1	228.5
Vitrogen Oxides	40 CFR 60, Subpart Cb	250 ppmvd	158.01	143.69	614.9	2,459.6
Carbon Monoxide	40 CFR 60, Subpart Cb	200 ppmvd	76.94	69.97	267.7	1,070.8
Volatile Organic Compounds	PSD-FL-006D	25 ppmvd ^h	5.50	5.00	19.1	76.4
ead	40 CFR 60, Subpart Cb	380 μg/dscm	0.126	0.114	0.44	1.76
Mercury	F.A.C. Rule 62-296.416	70 μg/dscm ^f	0.023	0.021	0.080	0.32
Beryllium	PSD-FL-006D	$0.46 \mu \text{g/m}^3$	0.00015	0.00014	0.0005	0.0020
Cadmium	40 CFR 60, Subpart Cb	15 μg/dscm	0.005	0.005	0.027	0.11
Arsenic	PSD-FL-006D	$9.3 \mu g/dscm$	0.0031	0.0028	0.011	0.044
luorides	PSD-FL-006D	840 μ g/dscm	0.278	0.253	0.97	3.88
oulfuric Acid Mist	PSD-FL-006D	2.1 ppmvd	2.83	2.57	9.80	39.2
Dioxin/Furan ⁸	40 CFR 60, Subpart Cb	30 μg/dscm	9.92E-06	9.02E-06	0.000038	0.00015

See the Following Page for Notes, References, and Footnotes.

Attachment MIC-EU1-G8. Summary of Maximum Emission Rates of Regulated Pollutants for Units 1 through 4, Dade County Resource Recovery (continued)

Notes:

gr/dscf = grains per dry standard cubic foot.

lb/hr = pounds per hour.

lb/MMBtu = pounds per million British thermal units.

lb/ton = pounds per ton.

mg/dscf = milligrams per dry standard cubic meter.

 $\mu g/m^3 = micrograms per actual cubic meter.$

MMBtu = million British thermal units.

PM10 = particulate matter with an aerodynamic diameter less than 10 microns.

ppmvd = parts per million by volume dry.

TPY = tons per year.

TSP = total suspended particulate.

Footnotes:

Based on a maximum 1-hour average heat input rate of 345.6 MMBtu/hr and a steam rate of 198,000 lb/hr; assuming an average RDF heating value of 5,220 Btu/lb and 31.25 TPH RDF input. A flue gas flow rate of 88,250 dscfm at 7% oxygen (2,273 dscm/min) was used in the emission rate calculations.

Based on a steam rate of 180,000 lb/hr. A flue gas flow rate of 80,250 dscfm at 7% oxygen (2,273 dscm/min) was used in the emission rate calculations.

^c Annual emissions for all pollutants are limited by permit conditions (PSD-FL-006D).

^d CFR 40 60.33b(b)(3)(i) allows an SO₂ concentration in the flue gas discharged to the atmosphere of 29 ppmvd or a 75% reduction in weight or volume (whichever is less stringent).

^c CFR 40 60.33b(b)(3)(ii) allows an HCl concentration in the flue gas discharged to the atmosphere of 29 ppmvd or a 95% reduction in weight or volume (whichever is less stringent).

F.A.C. Rule 62-296.416 allows a mercury concentration in the flue gas discharged to the atmosphere of 70 µg/dscm or an 80% reduction in weight or volume.

⁸ As total tetra- through octa-dioxins/furans.

b Dade County Resource Recovery must furnish to FDEP evidence that the facility emits less than 100 TPY of hydrocarbons, or must obtain legally enforceable limits for the hydrocarbon emissions from the facility.

Calculations:

To calculate emissions with an emission factor (EF) in terms of gr/dscf:

 $lb/hr = EF(gr/dscf) \times flow rate(dscfm) \times 60 (min/hr)/7000$

 $TPY = lb/hr \times 8760 (hr/yr) / 2000 (lb/ton)$

To calculate emissions with an emission factor (EF) in terms of mg/dscm:

 $lb/hr = (EF(mg/dscm) \times flow rate (dscf/min) \times 2.832E-2(m^3/ft^3) \times 2.205E-3 (lb/g) \times 60(min/hr))/1E3$

 $TPY = lb/hr \times 8760 (hr/yr) / 2000 (lb/ton)$

To calculate emissions with an emission factor (EF) in terms of ug/dscm:

 $lb/hr = (EF(ug/dscm) \times flow rate (dscf/min) \times 2.832E-2(m^3/ft^3) \times 2.205E-3 (lb/g) \times 60(min/hr))/1E6$

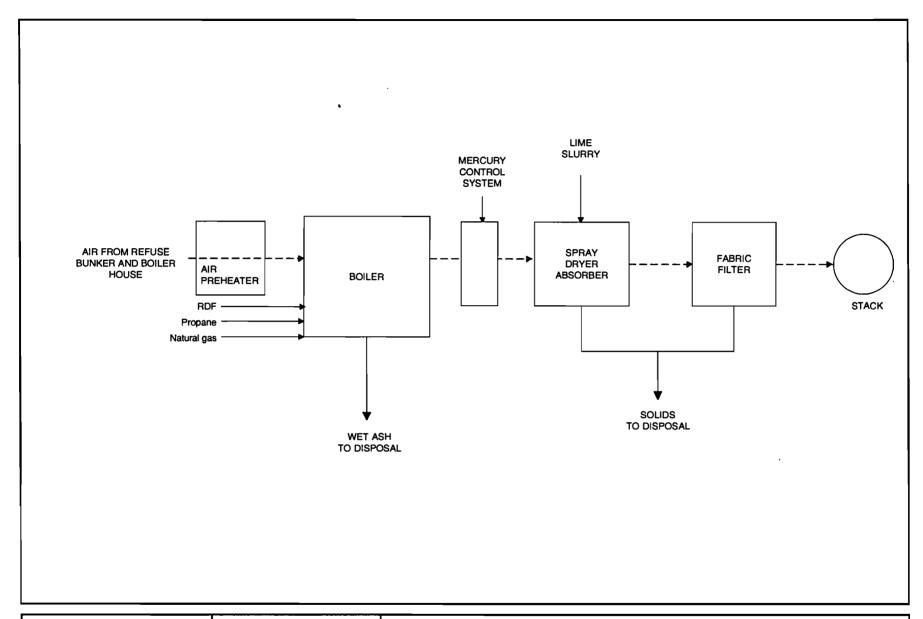
 $TPY = lb/hr \times 8760 (hr/yr) / 2000 (lb/ton)$

To calculate emissions with an emission factor (EF) in terms of ppmvd:

 $lb/hr = (EF(ppmvd) \times MW \times flow rate(dscf/min) \times 2.116.8 lbf/ft^2 \times 60(min/hr))/(1.545 ft-lbf/lbm-R \times 528R \times 1E6)$

 $TPY = lb/hr \times 8760 (hr/yr) / 2000 (lb/ton)$

ATTACHMENT MIC-EU1-J1
PROCESS FLOW DIAGRAM



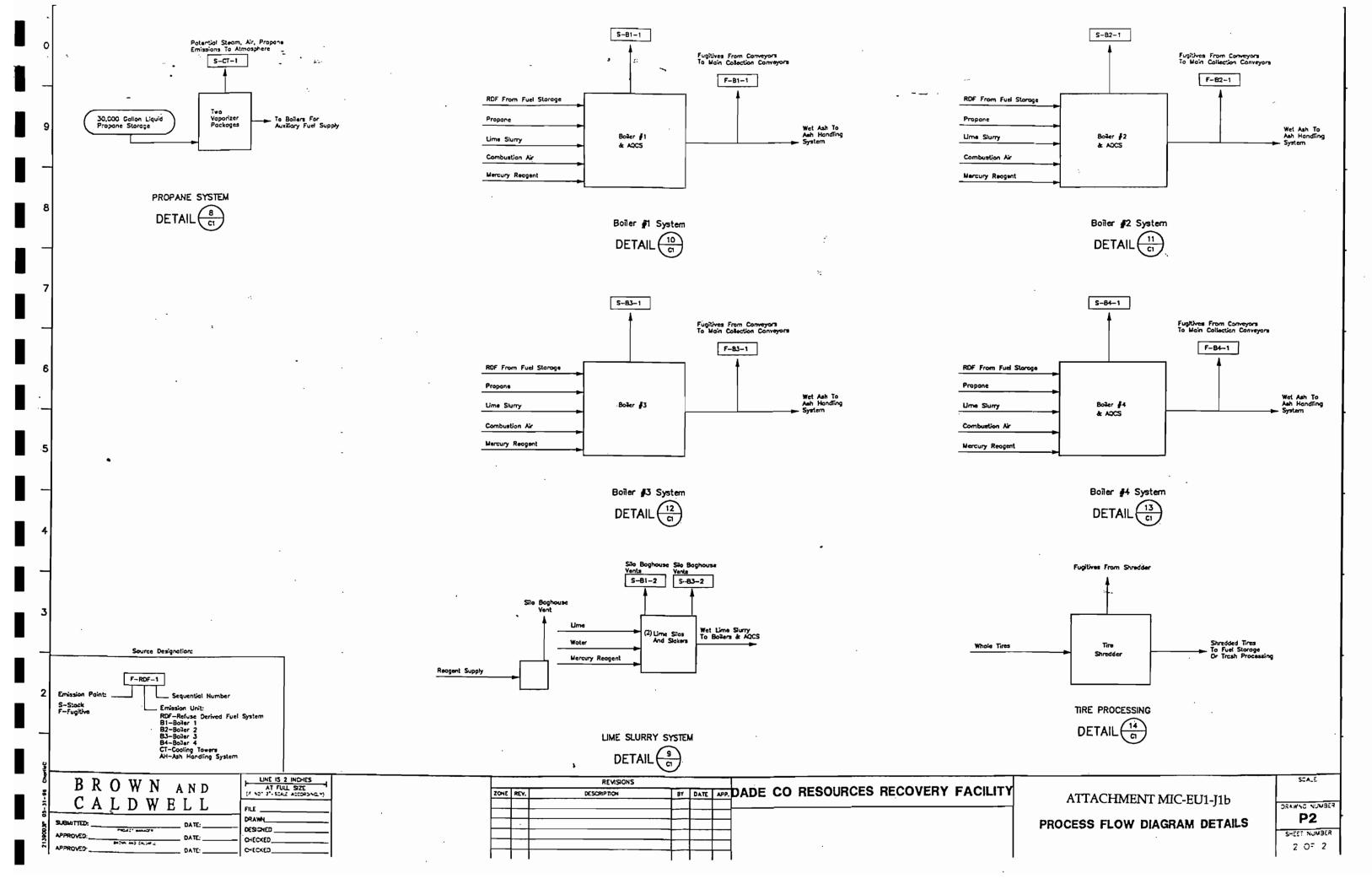
Attachment MIC-EU1-J1a Boiler Process Flow Diagram

Miami-Date County Resources Recovery Facility Process Flow Legend
Solid/Liquid
Gas

Filename: 0037532Y\F1\WP\MIC-EU1-J1A.VSD

Date: 09/18/00





ATTACHMENT MIC-EU1-J2
FUEL ANALYSIS

ATTACHMENT MIC-EU1-J2

HEATING VALUE AND ULTIMATE ANALYSIS OF RDF

	AVERAGE
AS RECEIVED	-
Moisture %	38.0
Ash %	7.32
Sulfur %	0.23
Btu/lb	5,220
DRY BASIS	
Ash %	<u></u> 11. 7 9
Sulfur %	0.36
Btu/lb	8,419
ULTIMATE ANALYSIS	
Carbon %	27.18
Hydrogen % *	8.00
Nitrogen %	0.32
Oxygen %	56.76
Chlorine %	0.20
Hydrogen % **	3.75
Oxygen % **	23.08

^{*} including water
** excluding water

ATTACHMENT MIC-EU1-J3
DETAILED DESCRIPTION OF CONTROL EQUIPMENT

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

This plant is a waste-to-energy facility consisting of four refuse derived fuel (RDF) fired boilers. Each of the four boilers has been designated a separate emissions unit. The RDF will be burned in each boiler in suspension and on a grate with a primary and secondary air system designed to provide air in varying proportions to promote the proper combustion of the RDF. The gases from the combustion process will pass through the furnace and convection sections of the boiler and then through the spray dryer scrubber and fabric filter baghouse. An induced draft fan with related ductwork is installed downstream of each baghouse and exhausts the flue gases into individual flues of two multi flue stacks. Continuous emissions monitoring systems are installed to monitor stack gases. Propane or natural gas will be burned as an auxiliary fuel, primarily during start-up.

Pebble lime is delivered in tank trucks and pneumatically off-loaded into lime storage silos. Pebble lime is fed to a slaker where water is added to slake the lime. Insoluble grit is removed from the slaker by a degritting device and collected in portable containers for ultimate disposal. One lime slurry preparation system is provided for each pair of boiler units.

On top of each lime silo, a fabric filter is installed for lime delivery and recovery. The dust collecting bag filter section consists of stainless steel wire mesh inserted into filter envelopes. A hinged, clamped and gasketed door is provided for bag filter access. The exhaust section is fitted with a removable bird and insect screen. The filter section is of sufficient size to allow a 20 ton truck to unload in a maximum time of one hour. Emissions are less than 5 percent opacity (six-minute average as measured by EPA Method 9).

Lime slurry flows from the slaker to an agitated lime tank serving two boilers. A monitoring and control system based on spray dryer exit temperature is provided to control lime slurry and/or dilution water feed flow. The acid flue gas reacts with the slaked lime droplets, converting SO₂ gas to calcium sulfite (CaSO₃) and calcium sulfate (CaSO₄); HCl to calcium chloride (CaCl₂); and HF to calcium fluoride (CaFl₂). Dry solids separated in the spray dryer

are removed from the bottom of the spray dryer and conveyed to an ash silo. A mercury reagent is mixed with the lime slurry for injection into the spray dryer scrubber.

Flue gas and residual particulates leaving the spray dryer pass through a baghouse to remove remaining particulates. Induced draft fans discharge the clean flue gas to a common stack with separate flues (i.e., one dual-flue stack for each pair of boilers).

Recently to comply with Subpart Cb emission limits for carbon monoxide (CO), the four boilers were modified. The modifications consisted of changes to the overfire air system, fuel feed system and associated fuel distribution systems and relocation of steam tubes to accommodate the new fuel feed system. The boiler control system was also modified.

Dade County plans to voluntarily install selective non-catalytic reduction (SNCR) system for NO_x control on the four boilers. Once available, design specifications for the SNCR system will be submitted to the Florida Department of Environmental Protection for approval.

Listed on the next page are the design parameters for the AQCS.

Parameters	Design
Spray Dryers	
Flue Gas Inlet Temperature	482 F
Quench Reactors	30 ft diameter x 83 ft high
Туре	Downflow
Reagents	Lime or equivalent
Reagent Consumption	774 lb/hr (maximum)
Fabric Filters	
Cleaning Mechanism	Reverse Air
Number of Modules	10
Number of Bags per Module	121
Effective Bag Area	
Per Module	99.5 ft ²
Total Baghouse	120,342 ft ²
Air/Cloth Ratio	3.0:1
Material	Fiberglass
Weight	16 oz/yd²
Guaranteed Bag Life	24 months
Outlet Grain Loading (@ $7\% O_2$)	0.011 gr/dscf
Flue Gas Outlet Temperature	270 F
Mercury Control System	
Reactant	Activated carbon or equivalent
NO _x Control System	
Reactant	To be determined
Injection Point	To be determined
Overall System	
Pressure Drop	13.1 inches w.c.
Power Consumption	340 kW
Water Consumption	100 gpm

Note: all data are per unit. Actual selected control equipment will be equivalent in performance to stated design but may vary from data shown.

F = degrees Fahrenheit	oz/yd ² = ounces per square yard
$ft^2 = square feet$	RDF = refuse-derived fuel
gpm = gallons per minute	TPH = tons per hour
gr/dscf = grains per dry standard cubic feet	w.c. = water column
kW = kilowats	
lb/hr = pounds per hour	

ATTACHMENT MIC-EU1-J4
DESCRIPTION OF STACK SAMPLING FACILITIES

DESCRIPTION OF STACK SAMPLING FACILITIES

Only the four boiler emissions units require stack sampling. Sample ports will be provided into each unit's independent flue, inside the two concrete stack shells.

The stack sampling facilities will comply with 62-297. 310.6, F.A.C. as noted below.

62-297.310.6

Stack Sampling Facilities Provided by the Owner of an Emissions Unit.

Sampling facilities include sampling ports, work platforms, access to work platforms, electrical power, and sampling equipment support. All stack sampling facilities must meet any Occupational Safety and Health Administration (OSHA) Safety and Health Standards described in 29 CFR Part 1910, Subparts D and E.

- (a) Permanent Test Facilities. The owner or operator of an emissions unit for which a compliance test, other than a visible emission test, is required on at least an annual basis, will install and maintain permanent stack sampling facilities.
- (b) Temporary Test Facilities. The owner or operator of an emissions unit that is not required to conduct a compliance test on at least an annual basis may use permanent or temporary sampling facilities. If the owner chooses to use temporary sampling facilities on an emissions unit, such temporary facilities will be installed on the emissions unit within 5 days of a request by the Department and remain on the emissions unit until the test is completed.
 - (c) Sampling Ports.
 - 1. All sampling ports will have a minimum inside diameter of 3 inches.
 - 2. The ports will be capable of being sealed when not in use.
- 3. The sampling ports will be located in the stack at least 2 stack diameters or equivalent diameters downstream and at least 0.5 stack diameter or equivalent diameter upstream from any fan, bend, constriction or other flow disturbances.
- 4. For emissions units for which a complete application to construct has been filed prior to December 1, 1980, at least two sampling ports, 90 degrees apart, will be installed at each sampling location on all circular stacks that have an outside diameter of 15 feet or less. For stacks with a larger diameter, four sampling ports, each 90 degrees apart, will be installed. For emissions units for which a complete application to construct is filed on or after December 1, 1980, at least two sampling ports, 90 degrees apart, will be installed at each sampling location on all circular stacks that have an outside diameter of 10 feet or less. For stacks with larger diameters, four sampling ports, each 90 degrees apart, will be installed. On horizontal circular ducts, the ports will be located so that the probe can enter the stack vertically, horizontally or at a 45 degree angle.
- 5. On rectangular ducts, the cross sectional area will be divided into the number of equal areas in accordance with EPA Method 1. Sampling ports will be provided which allow access to each sampling point. The ports will be located so that the probe can be inserted perpendicular to the gas flow.
 - (d) Work Platforms.
- 1. Minimum size of the working platform will be 24 square feet in area. Platforms will be at least 3 feet wide.

- 2. On circular stacks with 2 sampling ports, the platform will extend at least 110 degrees around the stack.
- 3. On circular stacks with more than two sampling ports, the work platform will extend 360 degrees around the stack.
- 4. All platforms will be equipped with an adequate safety rail (ropes are not acceptable), toeboard, and hinged floor-opening cover if ladder access is used to reach the platform. The safety rail directly in line with the sampling ports will be removable so that no obstruction exists in an area 14 inches below each sample port and 6 inches on either side of the sampling port.

(e) Access.

- 1. Ladders to the work platform exceeding 15 feet in length will have safety cages or fall arresters with a minimum of 3 compatible safety belts available for use by sampling personnel.
 - 2. Walkways over free fall areas will be equipped with safety rails and toeboards.
 - (f) Electrical Power.
- 1. A minimum of two 120 volts AC, 20 amps outlets will be provided at the sampling platform within 20 feet of each sampling port.
- 2. If extension cords are used to provide the electrical power, they will be kept on the plant's property and be available immediately upon request by sampling personnel.
 - (g) Sampling Equipment Support.
- 1. A three-quarter inch eyebolt and an angle bracket will be attached directly above each port on vertical stacks and above each row of sampling ports on the sides of horizontal ducts.
- a. The bracket will be a standard 3 inch x 3 inch x one-quarter inch equal-legs bracket which is 1 and one-half inches wide. A hole that is one-half inch in diameter will be drilled through the exact center of the horizontal portion of the bracket. The horizontal portion of the bracket will be located 14 inches above the centerline of the sampling port.
- b. A three-eighth inch bolt which protrudes 2 inches from the stack may be substituted for the required bracket. The bolt will be located 15 and one-half inches above the centerline of the sampling port.
- c. The three-quarter inch eyebolt will be capable of supporting a 500 pound working load. For stacks that are less than 12 feet in diameter, the eyebolt will be located 48 inches above the horizontal portion of angle bracket. For stacks that are greater than or equal to 12 feet in diameter, the eyebolt will be located 60 inches above the horizontal portion of the angle bracket. If the eyebolt is more than 120 inches above the platform, a length of chain will be attached to it to bring the free end of the chain to within safe reach from the platform.
- 2. A complete monorail or dualrail arrangement may be substituted for the eyebolt and bracket.
- 3. When the sample ports are located in the top of a horizontal duct, a frame will be provided above the port to allow the sample probe to be secured during the test.

Specific Authority: 403.061, F.S.

Law Implemented: 403.021, 403.031, 403.061, 403.087, F.S. History: Formerly 17-2.700(4), Formerly 17-297.345, Amended

11-23-94, 1-1-96.

ATTACHMENT MIC-EU1-J6
PROCEDURES FOR STARTUP AND SHUTDOWN

ATTACHMENT MIC-EU1-J6

PROCEDURES FOR STARTUP AND SHUTDOWN

The Zurn boilers have the potential to cause excess emissions during startup and shutdown. Dade County implements a detailed startup and shutdown procedure to minimize the duration and such emissions. Procedures which minimize such emissions include, but are not limited to, the following:

- Prior to boiler startup, the ESP is set at the necessary power level to maintain opacity levels.
- As the boiler startups, ESP power levels are adjusted to maintain opacity levels below 10 percent.
- Ash conveyors are to remain closed and fully sealed. If a conveyor needs to be opened, only one conveyor per boiler at a time on an operating unit can be opened.
- Water spray is used to minimize ash dust.
- The boilers blow soot 2 hours prior to a scheduled shutdown.
- During shutdown, ESP's are not turned off until I.D. fan is stopped.

ATTACHMENT MIC-EU1-J7
OPERATION AND MAINTENANCE PLAN

ATTACHMENT MIC-EU1-J7 ALTERNATIVE METHODS OF OPERATION

The operations and maintenance plan submitted in the Site Certification Application is attached. The plan will be updated following completion of the biomass processing and air pollution control system upgrade.

EXHIBIT "H"

Facility General Operating and Maintenance Description

$\overline{}$	CONCERNICATION AND TOTAL TION	YES	NO	THUE	11/3
»	CONSTRUCTION VERIFICATION	153	NO	UNK	и/у
1.	Subgrade or foundation adequately prepared	<u> </u>	<u> </u>	1	
	Liner construction/installation according to plans	<u> </u>	<u> </u>	1	<u></u>
3.	Leachate control system installation to plans	i	<u> </u>	-i	
4.	Surface water system/construction to plans		i —	1	
5.	Gas control system installation per plans		<u> </u>	 	<u> </u>
6.	Groundwater monitoring system constructed per plans	i	i		<u> </u>
-		<u> </u>	1	 	
ł	Comments	1	1	1	}
		1	1	<u> </u>	į .
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<u>B</u>	OPERATIONS	,	 		-
		<u> </u>	 	-	
7.	Copy of approved drawings/plans/permit onsite	 			
8.	All permit conditions complied with	ļ	 		
9.	Only permitted waste types disposed of	 	}		
10.	Waste quantity records kept/forwarded as required	-	 		
11.	Weighing of incoming waste	ļ			—
12.	Method and sequence of filling waste per plans		┼	-	ļ
13.	Waste compaction as required	-	<u> </u>		
	Working face/grades - slope <= 30 degree		-		1
	Attendant present		+-	-	
16.	Sufficient operating equipment	+	+	_	
	Sufficient reserve equipment or other arrangements				4
18.	Adequate communication facilities		↓		<u> </u>
19.	Salvaging/res. recovery under operating authority	+	 	-	
		1	ļ	1	1
	Comments	-		 -	
		1			
					+
		1			
			+-		
			+-	+	+
С	MAINTENANCE		l	-	
	FATAILEMINITE	+	+	+-	+
20.	Effective barrier preventing unauthorized entry				
21.	Disposal area easily accessible	-	+		+
22.		-	+-		+
		+-	-	- -	
22	Lucrience enhances orac courtor mactiods				
23.	Adequate vector control by surround matheda			- 1	
	Adequate vector control by approved methods Litter control maintained	-			-

PAGE 2

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T		YES	NO	UNK	N/A
- i			ĺ	Ī	
-	CLOSURE (Cont.)	<u> </u>	<u> </u>	<u> </u>	
Ī				1	
	Comments	<u> </u>	<u> </u>	<u> </u>	1
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		┼		+	†
G	RDF PLANT/STRUCTURES-WASTE RECEIVING AREAS 40T/41T		ł		
_	Building Damages and Tipping Floors	-	i -	 	† —
	(Accessibility/Repair/Cleanliness-O & M Hanual)	1	 	1	†
44.	Vector control (Bait Traps/Fogging-O & H Hanual)		1		1
	Dust control(Contained within building)		j		
_	Fire protection systems evident		T		
	(Eq. fire hose/fire cannon/overhead sprinklers)	1	T		1
47.	Operating Equipment while receiving	1	1	1	T
	(rolling stock/overhead cranes)				
48.	Hazardous waste staging area designated				
	Comments		<u> </u>		
	,				
			- -	+	
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	<u> </u>	+			_
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H	WASTE PROCESSING PLANT AREAS 40 & 41				 -
			1	.	-
	Drain and sump pump/operational in trash Alley			- }	
50	Fire protection systems evident				_
	(Eg. fire hose/fire cannon/overhead sprinklers)				
51	Dust collectors				
	(bachouses-fugitive dust emissions observed)			- }	
52.	Vector control (Bait traps/Fogging-O & H Manual)	_			
53.	RDF/Spillage control inside building-O & M Manual)				
54.	Operational Equipment (trommel/shredder/conveyor/				
	cherry pickers-O & M. Hanual)				
55.	Damage that allows fugitive emissions/leachate/	- 	- -	- 	-
	litter to building exterior				.
	8	- 1			1
	Comments	+-	- ·		
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		YES	ИО	UNK	N/A
L	AIR EMISSION CONTROL UNITS/ASH - AREAS 64 & 645			i	
1	Pending Clean Air Act Ammendments (Cont.)			1	
1		<u> </u>	!	1	
59.	Lime slaker residue				
70.	Fire protection system (Eq. portable extinguishers)		1	1	
71.	Stacks sealed	1		j	!
		-			
] (CONTINUOUS EXISSION MONITORS		<u> </u>	<u> </u>	<u> </u>
T		1	1	1]
	Opacity	<u> </u>	<u> </u>		
	Sulphur dioxide	1		1	<u> </u>
	Nitrogen oxides	<u> </u>	ļ	1	
75.	Carbon monoxide	<u> </u>			
76.	Other	1		1	
		i		1	
	Comments		 	<u> </u>	<u> </u>
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		+	 		
			ı		1
	ASH HANDLING AREA		1	-}	
77.	Ash containment in ash building	+	 	+	┼
1	•	1		1	ł
	Comments				
- 1		1		1	
		+	 		
- 1			1	1	
					
- 1		1	1	1	1
	•	+	+	╅	
×	PERIMETER COMMONS & PLANT COMMONS - AREAS 20 & 68	1		l	
	Litter control evident - O & H Hanual		╅╾╸		-
	Perimeter fence maintained inside contract area as		+	+	+-
	designated	+	+		
	Signage (hours of operation, owner/operation,	+	+	-	
-80-1	tipping fees)	+	+-	-	
	CIDDING IEES)		+	╌┼	+
	Comments	į			İ
	· ·	+	+	+	-
- 1					
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			+-	+	+
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PAGE 6.

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		YES	110	UNK	N/A
Q	WATER TREATMENT - AREA 62				
91.	Chemical storage - Sulphuric Acid & Caustic tank		Ι	I	
	above ground - storage & removal - O & H Manual	7			(
92.	Lime slakers slurry contained within structure	T	1	1	1
93.	Lime silo dust control (filter bag) visible	T	<u> </u>	1	1
	emissions during truck loading operation			1	1
94.	Wastewater neutralization (applicable until new	7	Π		Ī
	storm water/wastewater treatment plant/surge pond			1	
	area on line				
95.	Fire protection (Eq. fire extinguisher)	-	Ţ	1	
	Comments				
-					
				1	
-	·		<u> </u>		
		İ			<u> </u>
	Signed: Date				
	Site Representative				
cc:				-	
	·				
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Exhibit "H" Page 8 of 36

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EXHIBIT "H"

Inspection Reference Manual to be used as a reference manual for the Inspection Report Form

INSPECTION REFERENCE MANUAL

G-RDF Plant/Structures-Waste Receiving Areas 40T/41T

- * tipping floors accessible for waste delivery
- * floors smooth and easily cleanable
- * floors cleaned per O & M Manual
- * building damage that allows solid waste to spill outside of building onto tarmac or grass
- * hazardous waste(s) temporarily stored in designated area

H-Waste Processing Plant Areas 40 & 41

- * leachate flows into the sump/drain area
- * RDF spillage controlled inside of building

I-RDF Storage Building - Area 61

* Doors closed when receiving RDF

J-Unders Storage Building - Area 41U

- * Unders contained inside of building
- * bait traps evident
- * fogging per O & M Manual

K-Power Plant - Areas 63, 66 & 67

* RDF/litter mixing with rain water which is discharging into surface waters/ground water or into surface water management system

Exhibit "H" Page 11 of 36

DADE COUNTY RESOURCES RECOVERY FACILITY GENERAL OPERATING AND MAINTENANCE DESCRIPTION

INTRODUCTION

Operation and Maintenance of the facility is briefly described in this document for the purpose of identifying the general practices at the facility with regards to the control of environmental cleanliness. All areas of the plant are operated in a manner that prevents environmental problems from fugitive air emissions, leachate, and other contamination.

Exhibit "H" Page 13 of 36

"DUST CONTROL #45, 51,54,57,58

When dusty conditions occur within the garbage or trash tipping floor areas, due to incoming waste all man doors and overhead doors are closed to prevent dust from leaving the areas.

If possible light fraction material or the material that is causing the dust problem is mixed in the receiving pit with the more dense material and the natural moisture content of the denser material is used to control the dust problem.

Processing equipment in both areas 40 and 41 are equipped with baghouses to control dust emissions. Pick-up points for the dust collectors are at conveyor transition points and at the shredders as well. This will keep operationable equipment in these areas controlled within the buildings.

Each processing line is fitted with water spray systems at each infeed conveyor to add additional moisture to help control dust at the shredder.

Conveyor covers are kept in the closed position during operational hours and conveyor side skirting is inspected daily, repairs if necessary.

RDF will be contained in the fuel storage building and both east and west doors will be kept closed unless maintenance is being done in the building.

There is a pressurized air system which removes the air from the garbage pit and the fuel storage building and ducts it to the boilers for makeup air. This is primarily designed for odor control but also gives some dust control.

Exhibit "H"
Page 15 of 36

FIRE PROTECTION #46,50,56,61,70,88,89,95

Fire extinguishers are inventoried and located for each area of the plant. They are checked weekly by designated inspectors and serviced as necessary. Also see attached inspection form for fire system and hose designations by area.

Fire extinguishers are placed at strategic locations around the operating areas and in the offices. There are thirty two units placed to cover the offices, garbage receiving, garbage processing, stores, heavy equipment maintenance, and receiving. In addition there are twenty one extinguishers distributed throughout the trash receiving and processing areas. These numbers may increase as a need is identified.

In the powerhouse there are extinguishers located on all levels around the boilers and the fuel feed system. Thirty four of the eighty eight extinguishers are located on the J conveyor, H conveyor, and control levels of the powerhouse. The rest are located to adequately cover the remaining powerhouse levels, water treatment, cooling tower, and the ash building.

Exhibit "H" Page 17 of 36

IRASH_FIRE_HOSE_REPORT

LOCATION:			 :	#	:	50':	100':	NOTES:		 	-
"TF4":	EAST		:	1	:	:				 	_
	WEST						1			 	_
MILL DECK:	SW SIDE #2 MILL		:	3	:	:					
	SW SIDE #1 MILL										
	NW SIDE #3 MILL		:	5	:	:					
"ST" CONVEYORS:	ORS: HEAD SECTION		:	6.	 :	:					
				7	:	:		:			
INFEED DECK:		•	:	8	:	:		:			
	#2 INFEED W. SIDE	Ε	:						•		
	#3 INFEED E. SIDE		:	10):	:				 	
	E. SIDE BY MCC RO		:							 	•
	NW BY EXIT DOOR							:		 	
	NEXT TO PULPIT LA	ADDER	:	13	 3:	:		:		 	
NORTH SIDE MOTOR			:				 : :			 	
TIPPING FLOOR N		EAST								 	
"FR1" BASEMENT	LEVEL ·	EAST	:	1	7: 		: 	: 		 	
		WEST								 	
N.W. COLUMN N.	EXIT OF BASEMENT		:	1	9: 		: 	:		 	
BETWEEN MAGS OVER NON-FERROUS TRANSFER CONV.			:	2	0:		: :	:			
S.E. SIDE OF #3 MILL BASEMENT LEVEL										 	
REMARKS:										 <u>-</u>	

NUMBER OF SCOTT PACKS SPARE BOTTLES			-
DATE:	: SIGNATURE:	Exhibit Page 19 of 36	-

HEIL FIRE HOSE REPORT

LOCATION	#	50.	1001	NOTES:
TIPPING FLOOR EAST WALL	1			********************
	2			***************************************
"S.P." DECK NE BY DOOR	3			
"P1" NORTH WALL BY OPENING	4			
"S" CONVEYOR NEXT TO STEPS	5			
EAST WALL PROCESS BUILDING	6			
	7			
	8			***************************************
	9			
EAST OF RECEIVING DOOR	10			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
PICKER STATIONS N.	11			~
S.	12	 -		b
S.W. EXIT DOOR HEIL TIPPING FLOOR	13			
N.W. LEVEL BY CRANE LADDER	14			
N. WALL FERROUS BUNKER	15		-	

1.	NUMBER	OF	SCOTT	FACKS
----	--------	----	-------	-------

DATE:	-	SIGNATURE:
		Exhibit "H" Fage 21 of 36

^{2.} SPARE BOTTLES
3. CRANE EMERGENCY BREATHING APPARATUS



montenay power corp.

6990 n.w. 97th avenue • miami, florida 33178 telephone (305) 593-7000

HEIL_EXTINGUISHER_LOCATION_LIST

```
Office entrance to Visitors Center
1.
2.
     East front office hallway
ತ.
     Receiving area (west wall)
4.
     Pit entrance ramp (south wall)
5.
     Machine shop (north wall)
6.
     Machine shop (west wall)
7.
     Heil process system, south entrance way (concrete pillar)
8.
     Magnet house
9.
     Magnet house .
10.
     Picker hydraulic pumps (concrete pillar)
11.
     Picker control level
12.
     Compressor area (west wall) -
13..
     Heavy Equipment shop (east wall)
14.
     H.E Shop (south wall).
15.
     H.E. Shop (west wall) by bay door
16.
     H.E. Shop (west wall) by door way
17.
     H.E. Shop (north east) corner
18.
     Bag house deck
19.
     Heil control room (north wall) by air conditioning unit
20.
     Heil control (north exit door exterior)
21.
     Fan level (north steel column)
22.
     M.C.C. room (south wall from exit door)
23.
     M.C.C. room (west wall by exit door
     Exterior of electric shop entrance door
24.
25.
     Interior of electric shop (north wall partition)
      "GP" level (west wall)
26.
      "GP" deck (north wall)
27.
28.
     N.A.
     Mill deck (exterior "105")
29.
     Mill deck (exterior "205")
30.
 31.
      Instrumentation deck (below pulsort)
```

Exhibit "H" Page 23 of 36

32. Instrumentation deck (below pulsort)

RDF/LITTER CONTROL #53,62

Dust suppression is kept to a minimum by ensuring that all conveyors are covered, transition inspection doors are kept closed and the conveyor skirting is maintained to minimize leakage. It becomes necessary on occasion to remove dust and grit build up from the areas of the conveyor rollers and pans to minimize damage and inspect the proper operation of the rollers through use of compressed air. This operation is performed within the confines of the building and on the outside conveyors only over paved areas. The paved areas are then cleaned up immediately following the blowdown. Water usage is restricted in cleaning due to the inherent electrical problems that could be encountered.

Exhibit "H" Page 25 of 36

BUILDING DAMAGE #55

When damage to the building occurs, an incident report is written, describing what sort of damage transpired, the location where the incident happened, the time the damage occurred, and who was responsible.

A work order is also prepared for the repair of the damage, and depending on the nature of the damage, the correct priority is assigned to the work order.

In the case of a damaged entrance or exit door on the tipping floors, every effort is made to repair them immediately, even if the repair is temporary so the door can be closed. This same procedure would be followed for the fuel storage area doors.

If damage occurs in an area where repairs do not have to be handled on an emergency basis, a work order is prepared and turned over to the Resources Recovery engineering department for scheduling.

Any material that has the potential to generate leachate, is removed to a controlled area as soon as possible. An ash loading ramp is located on the west side of the power house for containing ash or RDF will be promptly disposed of or relocated so as not to generate a leachate problem.

Exhibit "H" Page 27 of 36

OIL AND CHEMICALS STORAGE #63,65,82,90,91

There is a central fuel depot and oil storage area west of the vehicle maintenance shop where full and empty drums are kept plus storage tanks. The area is equipped with an oil/water separator. Used oil and empty drums are disposed of by approved methods through licensed vendors. Covered storage for oil also exists at the powerhouse and in the Trash processing area. This is for current drum supplies for the operating areas.

Chemicals for water treatment are stored in approved tank storage at the water treatment area as well as at the cooling tower. These materials are handled in a safe manner and in accordance with manufacturers suggested procedures.

Exhibit "H" Page 29 of 36

POWERHOUSE DRAINS AND SUMPS #68,69

On the north side of the powerhouse there are two sumps, east for module #1 and west for module #2. The drains underneath the boiler drain into these two sumps. The east sump is larger than the west one and has a solid separator. Both sumps have pumps to the sanitary sewer system for eventual treatment.

The solids separator is cleaned out every 2-3 weeks or on an as needed basis. The sumps are checked on a daily basis.

In case of emergency failure of the sump pumps Montenay will provide portable pumps that pump into the sewer system and prevent any overflow onto the ground.

Lime slacker residue is collected in a surfaced sump in the middle of the water treatment area and is pumped to the sanitary sewer system.

Exhibit "H" Page 31 of 36

EQUIPMENT MAINTENANCE AREA #81,83

The drain and sumps in the fuel depot and the vehicle wash down areas all drain through an oil/water separator and into the sanitary sewer. The oil shall continue to be disposed of on a scheduled regular basis by a licensed used oil dealer. The washdown area is roofed and shall be cleaned regularly with a surfaced floor and walls for containment.

Exhibit "H" Page 33 of 36

WATER TREATMENT #92,93,94

Lime slacker slurry is contained within the building and handled according to accepted procedures. The lime silo filter bag is checked periodically to maintain dust control of visible emissions. The neutralization system for demineralizer backwash water is controlled to pump the resultant liquids to the wastewater sanitary sewer system for treatment.

Exhibit "H" Page 35 of 36

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION (All Emissions Units)

Emissions Unit Description and Status

1.	Type of Emission	ns Unit Addressed in Thi	s Section: (Check one)			
[] 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).					
[X	process or prod		n addresses, as a single emis s which has at least one defi gitive emissions.			
[=		n addresses, as a single emises which produce fugitive em			
2.	Regulated or Unr	egulated Emissions Unit	? (Check one)			
[x] The emissions unit.	unit addressed in this Em	nissions Unit Information Sec	ction is a regulated		
[The emissions unit.	unit addressed in this Em	nissions Unit Information Sec	ction is an unregulated		
3.	Description of En	nissions Unit Addressed	in This Section (limit to 60	characters):		
	Refuse Derived Fo	uel (RDF) Processing and	l Biomass Production			
4.		dentification Number:		[] No ID		
	ID:			[X] ID Unknown		
5.	Emissions Unit	6. Initial Startup	7. Emissions Unit Major	8. Acid Rain Unit?		
	Status Code: A	Date:	Group SIC Code: 49			
9.	9. Emissions Unit Comment: (Limit to 500 Characters)					
	This emission unit consists of trash and garbage receiving, processing and storage. Biomass processing and production is also included. Includes garbage dust collectors and trash and biomass dust collectors. This emission unit also includes fugitive emissions.					

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

0037532Y/F2/TV 10/5/00

Emissions Unit Information Section	2	of	3	RDF Processing
---	---	----	---	----------------

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

Fabric Filter - Existing - Clarke Equipment Serial No. PAFX5720XX88337 (baghouse) filter. This filter connects primarily with the #3 trash processing shredder and also services covered conveyor belts.

Fabric Filter - Existing - Clarke Equipment Serial No. PAFX5720XX88338 (baghouse) filter. This filter connects primarily with the #1 trash processing shredder and also services covered conveyor belts.

Fabric Filter - Existing - Clarke Equipment Serial No. PAFX5720XX88338 (baghouse) filter. This filter connects primarily with the #2 trash processing shredder and also services covered conveyor belts.

Fabric Filter - Existing - Clarke Equipment Serial No. PAFX9520XX88340 (baghouse) filter. This filter connects with the #1 & #2 trash processing magnets and also services covered conveyor belts.

Fabric Filters (2) - Existing - MAC Equipment 144MWP212-160 garbage shredder line (baghouse) filters. These filters connect with the garbage shredder and also services covered conveyor belts.

Fabric Filters (2) - Existing - MAC Equipment 120MWP312-256 garbage process line (baghouse) filters. These filters connect to an unders magnet and to various conveyors and trommels.

2	Contro	l Device	or Method	Code(s)	. 017
	- Olling	1 20 1100	01 11100100		

Emissions Unit Details

1.	. Package Unit:			
	Manufacturer:	Model Number:		
2.	. Generator Nameplate Rating:	MW		
3.	Incinerator Information:			
	Dwell Temperature:		°F	
	Dwell Time:		seconds	
	Incinerator Afterburner Temperature:		°F	

Emissions	Unit	Information	Section	2	of	3
					U -	

B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate:			mmBtu/hr
2.	Maximum Incineration Rate:	lb/hr		tons/day
3.	Maximum Process or Throug	hput Rate:	1,336,000	TPY
4.	Maximum Production Rate:			
5.	Requested Maximum Operati	ng Schedule:		-
	24	hours/day	7	days/week
	52	weeks/year	8,760	hours/year
6.	Operating Capacity/Schedule	Comment (limit to 20	0 characters):	
	Maximum throughput is the trate. Per PSD-FL-006D the trate. 180,000 lbs/hr per unit @ 625 p	unit capacity is deterr		

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

62-296.320(2), F.A.C.
62-296.320(4), F.A.C.
62-297.310, F.A.C.
62-297.401, F.A.C.
62-297.620, F.A.C.

D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1.	Identification of Point on Pi Flow Diagram? SRDF1,2,3	3,4,5,6,7&8	2. Emission Point Type Code: 3			
3.	3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):					
	SRDF1 is a 5 ft dia. vent a shredders & process.	bove the 17 ft d	lia. trash baghou	se with 21,500 dscfm from		
4.	ID Numbers or Descriptions	s of Emission Ur	nits with this Emi	ssion Point in Common:		
	Not Applicable					
5.	Discharge Type Code:	6. Stack Heig		7. Exit Diameter:		
	W		feet	feet		
8.	Exit Temperature:	9. Actual Vol	umetric Flow	10. Water Vapor:		
	77 °F	Rate:	acfm	%		
11.	Maximum Dry Standard Flo	ow Rate: dscfm	12. Nonstack Emission Point Height: 55 feet			
13.	Emission Point UTM Coord	linates:				
	Zone: E	ast (km):	Norti	n (km):		
14.	Emission Point Comment (1	imit to 200 chara	acters):	-		
	The combined flow rates for points 1-4 and 5-8 after biomass are 113,000 dscfm & 106,000 dscfm, respectively.					

Emissions	Unit	Information Section	2	of	3
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D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1.	Identification of Point on Plot Plan or Flow Diagram? SRDF1,2,3,4,5,6,7&8		2. Emission Point Type Code: 3			
3.	 Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): SRDF2 is a 5 ft dia. vent above the 17 ft dia. trash baghouse with 21,500 dscfm from 					
	shredders & process.					
4.	ID Numbers or Description	s of Emission U	nits with this Emi	ssion Point in Common:		
	Not Applicable					
5.	Discharge Type Code:	6. Stack Heig		7. Exit Diameter:		
	VV		feet	feet		
8.	Exit Temperature:	9. Actual Vol	umetric Flow	10. Water Vapor:		
	77 °F	Rate:	acfm	%		
11	. Maximum Dry Standard Flo	ow Rate: dscfm	1	12. Nonstack Emission Point Height: 55 feet		
13	. Emission Point UTM Coord	linates:	<u> </u>			
	Zone: E	ast (km):	North (km):			
14	. Emission Point Comment (imit to 200 char	acters):			
	14. Emission Point Comment (limit to 200 characters): The combined flow rates for points 1-4 and 5-8 after biomass are 113,000 dscfm & 106,000 dscfm, respectively.					

Emissions Unit Information Section 2 of 3

RDF Processing

D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1.	Identification of Point on P. Flow Diagram? SRDF1,2,3	- · · - · · - · · - · · - · · · · · · ·	2. Emission Point Type Code: 3				
3.	 Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): SRDF3 is a 5 ft dia. vent above the 17 ft dia. trash baghouse with 28,000 dscfm from biomass trommels. 						
4.	4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:						
	Not Applicable						
5.	Discharge Type Code: W	6. Stack Heig	ht: feet	7. Exit Diameter: feet			
8.	Exit Temperature: 77 °F	9. Actual Vol Rate:	umetric Flow acfm	10. Water Vapor: %			
11	. Maximum Dry Standard Flo	ow Rate: dscfm		mission Point Height: 55 feet			
13	. Emission Point UTM Coord	dinates:		-			
	Zone: E	ast (km):	North (km):				
14	14. Emission Point Comment (limit to 200 characters): The combined flow rates for points 1-4 and 5-8 after biomass are 113,000 dscfm & 106,000 dscfm, respectively.						

Emissions Unit Information Section 2 of 3

RDF Processing

D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1.	Identification of Point on Plot Plan or Flow Diagram? SRDF1,2,3,4,5,6,7&8		2. Emission Po	oint Type Code:		
3.	 Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): SRDF4 is a 5 ft dia. vent above the 19 ft dia. trash baghouse w/42,000 dscfm from biomass trommels. 					
4.	ID Numbers or Descriptions	s of Emission U	nits with this Emi	ssion Point in Common:		
	Not Applicable					
5.	Discharge Type Code: W	6. Stack Heig	ht: feet	7. Exit Diameter: feet		
8.	Exit Temperature: 77 °F	9. Actual Vol Rate:	umetric Flow acfm	10. Water Vapor: %		
11.	. Maximum Dry Standard Flo	ow Rate: dscfm	12. Nonstack Er	nission Point Height: 55 feet		
13.	. Emission Point UTM Coord	linates:				
	Zone: E	ast (km):	North (km):			
14.	14. Emission Point Comment (limit to 200 characters): The combined flow rates for points 1-4 and 5-8 after biomass are 113,000 dscfm & 106,000 dscfm, respectively.					

Emissions Unit Information Section 2 of 3

RDF Processing

D. EMISSION PÖINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1.	Identification of Point on Plot Plan or Flow Diagram? SRDF1,2,3,4,5,6,7&8		2. Emission Point Type Code: 3				
3.	Descriptions of Emission Poly 100 characters per point):	oints Comprising	g this Emissions \	Unit for VE Tracking (limit to		
	SRDF5 is a 2 ft dia. vent above the 11.5 ft dia. trash baghouse with 20,000 dscfm from shredders & process.						
4.	ID Numbers or Descriptions	s of Emission U	nits with this Emi	ssion Point in Commo	n:		
	Not Applicable						
5.	Discharge Type Code:	6. Stack Heig	ht:	7. Exit Diameter:			
	W		feet		feet		
8.	Exit Temperature:	9. Actual Vol	umetric Flow	10. Water Vapor:			
	77 °F	Rate:	acfm		%		
11.	Maximum Dry Standard Flo		12. Nonstack Emission Point Height:				
		dscfm	55 feet				
13.	Emission Point UTM Coord	linates:					
	Zone: E	ast (km):	North (km):				
14.	Emission Point Comment (1	imit to 200 char	acters):				
	The combined flow rates for points 1-4 and 5-8 after biomass are 113,000 dscfm & 106,000 dscfm, respectively.						

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Emissions Unit Information Section	2	of	3
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D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1.	Identification of Point on Plot Plan or Flow Diagram? SRDF1,2,3,4,5,6,7&8		2. Emission Point Type Code: 3		
3.	 Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): SRDF6 is a 2 ft dia. vent above the 11.5 ft dia. trash baghouse with 20,000 dscfm from shredders & process. 				
4.	ID Numbers or Descriptions	s of Emission Ur	nits with this Emi	ssion Point in Common:	
Not Applicable					
5.	Discharge Type Code: W	6. Stack Heigl	ht: feet	7. Exit Diameter: feet	
8.	Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate:		10. Water Vapor: %	
11.	Maximum Dry Standard Flo	ow Rate: dscfm		nission Point Height: 55 feet	
13.	Emission Point UTM Coord	linates:			
	Zone: E	ast (km):	North (km):		
14.	Emission Point Comment (1	imit to 200 char	acters):		
	The combined flow rates f 106,000 dscfm, respectively.		nd 5-8 after bion	nass are 113,000 dscfm &	

D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

	Identification of Point on Plot Plan or Flow Diagram? SRDF1,2,3,4,5,6,7&8		 Emission Point Type Code: 3 			
3. Descriptions of Emission P 100 characters per point):						
SRDF7 is a 2 ft dia. vent above the 13.7 ft dia. trash baghouse with 33,000 dscfm from process points.						
4. ID Numbers or Description	s of Emission U	nits with this Emi	ssion Point in Common:			
Not Applicable	Not Applicable					
5. Discharge Type Code:	6. Stack Heig		7. Exit Diameter:			
W		feet		feet		
8. Exit Temperature:	9. Actual Vol	umetric Flow	10. Water Vapor:			
77 °F	Rate:	acfm		%		
11. Maximum Dry Standard Flo	ow Rate: dscfm		nstack Emission Point Height: 55 feet			
13. Emission Point UTM Coor	dinates:					
Zone: E	East (km):	North (km):				
14. Emission Point Comment (limit to 200 char	acters):	-			
The combined flow rates for points 1-4 and 5-8 after biomass are 113,000 dscfm & 106,000 dscfm, respectively.						

Emissions Uni	t Information Section	2	of	3
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D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1.	Identification of Point on Plot Plan or Flow Diagram? SRDF1,2,3,4,5,6,7&8		2. Emission Point Type Code: 3			
3.	Descriptions of Emission Policy 100 characters per point):	oints Comprising	g this Emissions V	Unit for VE Tracking	(limit to	
	SRDF8 is a 2 ft dia. vent above the 13.7 ft dia. trash baghouse with 33,000 dscfm from process points.					
4.	ID Numbers or Descriptions	s of Emission Ur	nits with this Emi	ssion Point in Commo	on:	
	Not Applicable					
5.	Discharge Type Code: W	6. Stack Height: feet		7. Exit Diameter:	feet	
8.	Exit Temperature:	9. Actual Volumetric Flow		10. Water Vapor:	%	
	ПГ	Rate:	acfm		70	
11.	11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: 55 feet			
13.	Emission Point UTM Coord	linates:				
	Zone: E	ast (km):	North	h (km):		
14.	Emission Point Comment (l	imit to 200 char	acters):			
	The combined flow rates for points 1-4 and 5-8 after biomass are 113,000 dscfm & 106,000 dscfm, respectively.					

Emissions Unit Information Section	2	of	3
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E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

<u>Se</u>	Segment Description and Rate: Segment 1 of 1				
1.	1. Segment Description (Process/Fuel Type) (limit to 500 characters):				
	Bulk materials & conveyors - others not classified. RDF and biomass processing				
2.	Source Classification Cod 3-05-101-99	e (SCC):	3. SCC Units		
4.	Maximum Hourly Rate: 152.5	5. Maximum A	Annual Rate:	6. Estimated Annual Activity Factor:	
7.	Maximum % Sulfur:	8. Maximum 9	% Ash:	9. Million Btu per SCC Unit:	
10	. Segment Comment (limit	to 200 characters):		
	Based on the maximum RI processing rate of 400,000		te of 936,000 TP	Y and the maximum biomass	
<u>Se</u>	gment Description and Ra	ite: Segment	of		
1.	Segment Description (Prod	cess/Fuel Type)	(limit to 500 ch	aracters):	
	•				
	2. Source Classification Code (SCC): 3. SCC Units:				
2.	Source Classification Code	e (SCC):	3. SCC Unit	5.	
-	Maximum Hourly Rate:	5. Maximum A		6. Estimated Annual Activity Factor:	
-			Annual Rate:	6. Estimated Annual Activity	
4.	Maximum Hourly Rate:	5. Maximum A	Annual Rate: % Ash:	6. Estimated Annual Activity Factor:	
4.	Maximum Hourly Rate: Maximum % Sulfur:	5. Maximum A	Annual Rate: % Ash:	6. Estimated Annual Activity Factor:	
4.	Maximum Hourly Rate: Maximum % Sulfur:	5. Maximum A	Annual Rate: % Ash:	6. Estimated Annual Activity Factor:	

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F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	Secondary Control Device Code	4. Pollutant Regulatory Code
PM	017		EL
PM ₁₀	017		EL
-			
-			
		-	
		-	

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Emissions Unit Information Section	2	of _	3	RDF Processing
Pollutant Detail Information Page	1	of	2	Particulate Matter - Total

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Po	tential/Fugitive Emissions		
1.	Pollutant Emitted:	2. Total Percent Efficie	ency of Control:
	РМ		
3.	Potential Emissions:		4. Synthetically
		82.22 tons/year	Limited? []
5.	Range of Estimated Fugitive Emissions: [] 1 [X] 2 [] 3	5.00 to .05.00 t	
6.	[] 1 [X] 2 [] 3 Emission Factor: 0.01 gr/dscf	toto	7. Emissions
0.			Method Code:
	Reference: PSD-FL-006D		5
8.	Calculation of Emissions (limit to 600 chara	cters):	
	{[(106,000 dscfm*.01 gr/dscf) + (113,000 dsc	cfm*.01 ar/dscf)] * (60 m	in/hr) * (1 lb/7.000
	grains)} = 18.77 lb/hr.		, ,
	18.77 lb/hr * 8,760 hr/yr / 2,000 lb/ton = 82.22 lb/sign limit of 0.01 grains/dscf per F		ot include fugitive
	emissions.		·
	Calculations based on normal operating cond	ditions and maximum may	y vary.
	Dellacate Data dial/Eurisia Eurisia C		4 >-
9.	Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 charac	ters):
	There are two sets of four baghouses in the		
	emits 106,000 dscfm (9.08 lb/hr) and the of emission rate of 18.77 lb/hr.	other 113,000 dscfm (9.6	9 lb/hr) for a total
All	owable Emissions Allowable Emissions	1 of 1	
1.	Basis for Allowable Emissions Code:	2. Future Effective Da	te of Allowable
	RULE	Emissions:	
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowab	ole Emissions:
	0.01 gr/dscf	18.77 lb/hour	82.22 tons/year
5.	Method of Compliance (limit to 60 character	rs):	_
	EPA Method 9 or 5		
6.	Allowable Emissions Comment (Desc. of Op	perating Method) (limit to	200 characters):
	Per PSD-FL-006D, emissions shall not excee	d particulate matter limit	of 0.01 grains/dscf
	or visible emissions of 5% opacity. Item 4		
	maximum may vary.		

Emissions Unit Information Section	2	of _	3	RDF Processing
Pollutant Detail Information Page	2	of	2	Particulate Matter – PM ₁₀

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

10	Fotential/Fugitive Emissions					
1.	Pollutant Emitted:	2. Total Percent Efficie	ency of Control:			
	PM ₁₀					
3.	Potential Emissions:		4. Synthetically			
	18.77 lb/hour	82.22 tons/year	Limited? []			
5.	Range of Estimated Fugitive Emissions:					
Ļ	[] 1 [X] 2 [] 3					
6.	Emission Factor: 0.01 gr/dscf		7. Emissions Method Code:			
	Reference: PSD-FL-006D		5			
8.	Calculation of Emissions (limit to 600 chara	cters):				
	{[(106,000 dscfm*.01 gr/dscf) + (113,000 dscfm*.01 gr/dscf)] * (60 min/hr) * (1 lb/7,000 grains)} = 18.77 lb/hr. 18.77 lb/hr * 8,760 hr/yr / 2,000 lb/ton = 82.22 TPY Emission limit of 0.01 grains/dscf per PSD-FL-006D. Does not include fugitive emissions. Calculations based on normal operating conditions and maximum may vary.					
9.	Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): There are two sets of four baghouses in the RDF facility. At normal operation, one set emits 106,000 dscfm (9.08 lb/hr) and the other 113,000 dscfm (9.69 lb/hr) for a total emission rate of 18.77 lb/hr.					
All	lowable Emissions Allowable Emissions	<u>1</u> of <u>1</u>				
1.	Basis for Allowable Emissions Code: RULE	2. Future Effective Da Emissions:	te of Allowable			
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowab	le Emissions:			
	0.01 gr/dscf	18.77 lb/hour	82.22 tons/year			
5.	Method of Compliance (limit to 60 character	rs):				
	EPA Method 9 or 5					
6.	Allowable Emissions Comment (Desc. of O	perating Method) (limit to	200 characters):			
	Per PSD-FL-006D, emissions shall not exceed particulate matter limit of 0.01 grains/dscf or visible emissions of 5% opacity. Item 4 based on normal operating conditions and maximum may vary.					

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Emissions Unit Information Section	2	of	3
Emissions one imornation section	_	υı	_

H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

<u>Vi</u>	Visible Emissions Limitation: Visible Emissions Limitation1 of1					
1.	Visible Emissions Subtype: VE	2. Basis for Allowable Opacity: [X] Rule [] Other				
3.	Requested Allowable Opacity: Normal Conditions: 5 % Ex Maximum Period of Excess Opacity Allower	cceptional Conditions: % ed: min/hour				
4.	Method of Compliance:					
	EPA Method 9					
5.	Visible Emissions Comment (limit to 200 c	haracters):				
	Visible Emissions Monitoring required by Permit No. PSD-FL006(D). FDEP allows 2 hours max. of excess emissions during start-up, shut down, or malfunction during any 24-hour period. Opacity limit for biomass baghouse is 5%, other baghouses are 10%.					
<u>Cc</u>		NITOR INFORMATION Subject to Continuous Monitoring) Monitorof				
1.	Parameter Code:	2. Pollutant(s):				
3.	CMS Requirement:	[] Rule [] Other				
4.	Monitor Information: Manufacturer: Model Number:	Serial Number:				
5.	Installation Date:	6. Performance Specification Test Date:				
7.	Continuous Monitor Comment (limit to 200	characters):				

Emissions	Unit	Information	Section	2	of	3
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J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

_	
1.	Process Flow Diagram
	[X] Attached, Document ID: MIC-EU2-J1 [] Not Applicable [] Waiver Requested
2.	Fuel Analysis or Specification
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
3.	Detailed Description of Control Equipment
	[X] Attached, Document ID: MIC-EU2-J3 [X] Not Applicable [] Waiver Requested
4.	Description of Stack Sampling Facilities
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
5.	Compliance Test Report
	[] Attached, Document ID:
	[] Previously submitted, Date:
	[X] Not Applicable
6.	Procedures for Startup and Shutdown
	[X] Attached, Document ID: MIC-EU2-J6 [] Not Applicable [] Waiver Requested
7	Operation and Maintenance Plan
' '	[X] Attached, Document ID: MIC-EU1-J7 [] Not Applicable [] Waiver Requested
8.	
	[] Attached, Document ID: [X] Not Applicable
9.	Other Information Required by Rule or Statute
	[] Attached, Document ID: [X] Not Applicable
10	Cural mantal Description and Comments
10. 	Supplemental Requirements Comment:

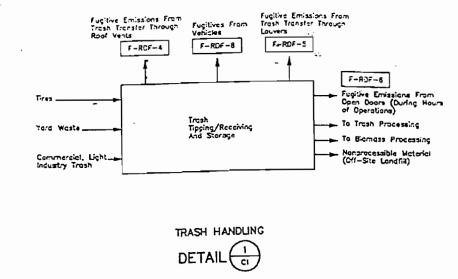
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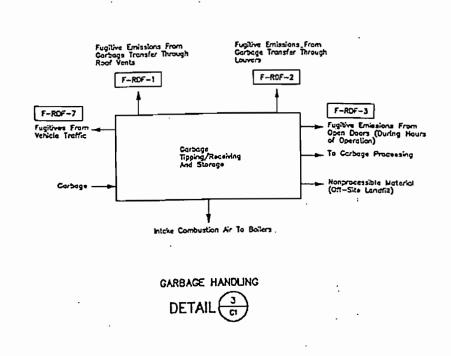
Emissions Unit Information Section 2 of 3	Emissions	Unit	Information	Section	2	of	3
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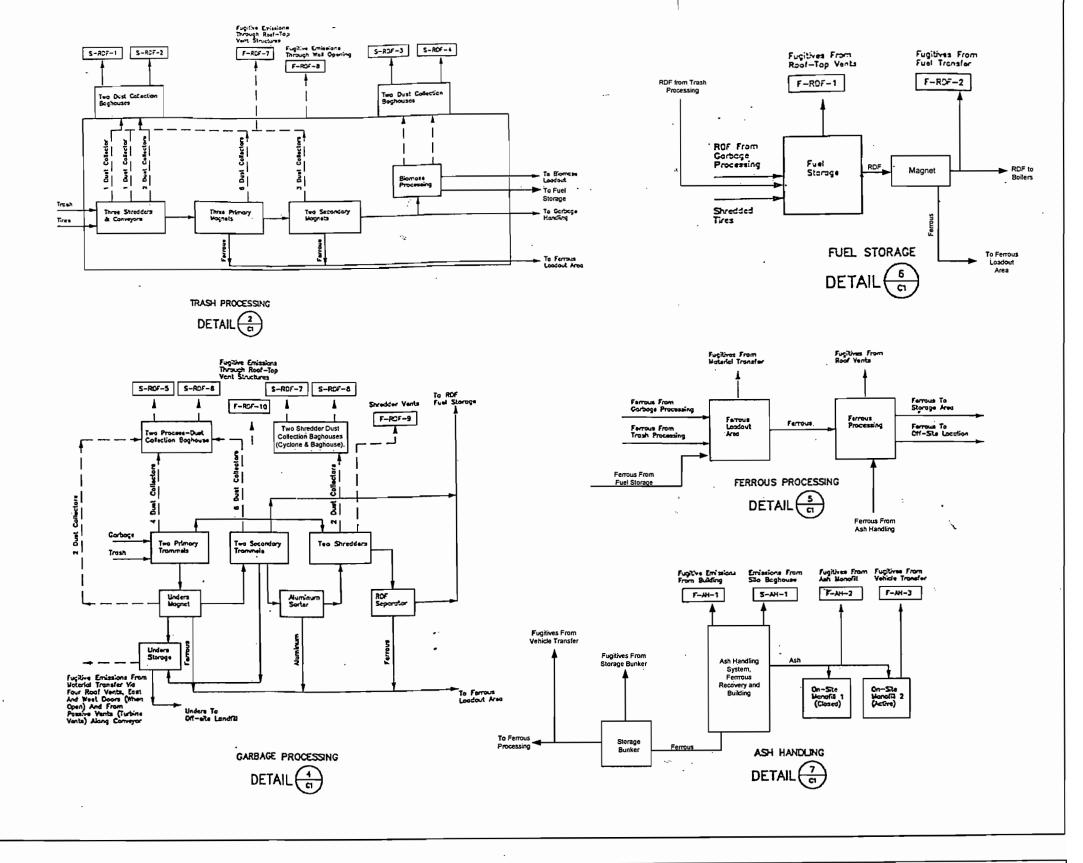
Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
10.71 .10 .1 .0 .1 .1 .1 .1 .1
13. Identification of Additional Applicable Requirements
[X] Attached, Document ID: MIC-FE-C12 [] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part Application (Hard-copy Required)
[] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:
[] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:
[] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:
[] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:
[X] Not Applicable
[\] Not Applicable

ATTACHMENT MIC-EU2-J1
PROCESS FLOW DIAGRAM







ATTACHMENT MIC-EU2-J1
PROCESS FLOW DIAGRAM DETAILS
DADE COUNTY RESOURCES RECOVERY FACILITY

Filename: 0037532Y\F2\WP\MIC-EU2-J1.vsd

Last Updated: 09/19/00 by PAC



ATTACHMENT MIC-EU2-J3
DETAILED DESCRIPTION OF CONTROL EQUIPMENT

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

The control equipment for the refuse derived fuel and biomass processing system includes two sets of four dust collector baghouses. The dust control system for the garbage processing system is currently installed and will remain as is. The dust collection system for the trash and biomass processing systems are currently being upgraded. The data included in the application is as anticipated following these changes. All equipment numbers and data noted below and in the application is nominal data and may be replaced with similar equipment with comparable performance.

Each garbage processing line (Line Nos. 100 and 200) within the facility has two dust collection systems to control dust generated within the process line. These systems consist of a 33,000 cfm process line dust collection system and a 20,000 cfm shredder dust collection system.

The garbage processing system dust collection system for the trommels, magnets, and conveyors consists of the following major components:

- 1. Dust pickup hoods at the points where dust is to be controlled (seven locations).
- 2. Interconnecting ductwork with dampers at each pickup point.
- 3. MAC Model 120MWP312-256 Dust Filter
- 4. Chicago Blower Model 36 Fan with 100 Hp motor and outlet damper.
- 5. MAC 24 x 24 Airlock to remove the collected dust.
- 6. Common collection conveyor (Equipment No. 41-26-320) to transport the collected dust back to the process line.

The garbage shredder dust collection system consists of the following major components:

- 1. Dust pickup hood at the shredder discharge area on conveyors 41-26-106 and 206.
- 2. Interconnecting ductwork.
- 3. MAC Model 144MWP212-160 Dust Filter
- 4. Chicago Blower Model 33 Fan with 100 Hp motor and outlet damper.
- 5. MAC Model H96 Cyclone Collector.
- 6. MAC 24 x 24 Airlock (on filter) and 36 x 36 Airlock (on cyclone)

The trash and biomass processing system dust collection system is being upgraded. The proposed system includes reuse of existing filters 1 and 2 to pick up dust from three trash shredders, from all existing conveyor and magnetic separation transfer points. Filters 3 and 4 will pick up dust from the biomass process equipment and transfer points located within the trommel building. Simplex filter bags will be replaced with duplex bags to assure sufficient cloth area is available for the expected dust removal service.

Filters 1 and 2 combined will handle 43,000 cubic feet per minute and filters 3 and 4 combined will handle 70,000 cubic feet per minute.

ATTACHMENT MIC-EU2-J6
PROCEDURES FOR STARTUP AND SHUTDOWN

ATTACHMENT MIC-EU2-J6

PROCEDURES FOR STARTUP AND SHUTDOWN

The refuse derived fuel processing and biomass production emission unit has the potential to cause excess emissions during startup and shutdown. Dade County implements a detailed startup and shutdown procedure to minimize the duration and such emissions. Procedures which minimize such emissions include, but are not limited to, the following:

- Prior to startup, all shredder and trommel access doors must be closed.
- During shutdown, there is at least one minute between stopping each piece
 of equipment to in order to allow the refuse on or in that piece of equipment
 to clear itself.

Emissions Unit Information Section	3	of	3
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III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION (All Emissions Units)

Emissions Unit Description and Status

1.	Type of Emissions Unit Addressed in This Section: (Check one)							
[] 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).							
[x	(] 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.							
2.	Regulated or Unr	egulated Emissions Unit	? (Check one)					
[x	The emissions unit.	unit addressed in this Em	nissions Unit Information Sec	ction is a regulated				
[] The emissions unit.	unit addressed in this Em	nissions Unit Information Sec	ction is an unregulated				
3.	Description of En	nissions Unit Addressed	in This Section (limit to 60 o	characters):				
	Ash Building and	Handling System						
4.	Emissions Unit Io	dentification Number:		[] No ID				
	ID:			[X] ID Unknown				
5.	Emissions Unit	6. Initial Startup	7. Emissions Unit Major	8. Acid Rain Unit?				
	Status Code: A	Date:	Group SIC Code: 49	[]				
9.	Emissions Unit C	comment: (Limit to 500 C	Characters)	-				
	Emissions Unit Comment: (Limit to 500 Characters) This emission unit includes the bottom and fly ash handling, fly ash silo, ash conditioning agent silo (if any), the Ash Handling Building (AHB), and related fugitive emissions. The AHB is designed to store about 3 days of bottom and fly ash with 4 roof fans and 7 east and 3 west louvers. Trucks enter through doors from the south, exit to the north and haul ash to a monofill. One 26.5 acre section of monofill is closed.							

Emissions	Unit	Information	Section	3	of	3
			~~~~		<b>-</b>	

### **Emissions Unit Control Equipment**

Emissions one coners Burginene						
1.	Control Equipment/Method Description (Limit to 200 characters per device or method):					
	Ash Silo Baghouse					
	Ash Conditioner					
	·					
2.	Control Device or Method Code(s): 17, 61					

### **Emissions Unit Details**

1.	Package Unit:		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating:	MW	<del></del>
3.	Incinerator Information:		
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F

Ash	ı Ha	ndl	ind

Emissions	<b>Unit Information Section</b>	3	of	3

## B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

### **Emissions Unit Operating Capacity and Schedule**

1.	Maximum Heat Input Rate:		_	mmBtu/hr
2.	Maximum Incineration Rate:	lb/hr		tons/day
3.	Maximum Process or Through	put Rate:	200,000	TPY
4.	Maximum Production Rate:			
5.	Requested Maximum Operation	g Schedule:		
	24	hours/day	7	days/week
	52_	weeks/year	8,760	hours/year
6.	Operating Capacity/Schedule (	Comment (limit to 200	characters):	
	Throughput rate in item No. 3 maximum limit. Per PSD-FL-0 180,000 lb/hr per unit @ 625 ps	06(D) the max capacity		

Emissions	Unit	Information	Section	3	of	3
		TITLOT TITESTICIT			O.	_

## C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

### **List of Applicable Regulations**

62-296.320(4), F.A.C.	
62-297.401, F.A.C.	
62-297.620, F.A.C.	
62-296.320(2), F.A.C.	
62-702.570, F.A.C.	

<b>Emissions Unit Information Section</b>	3	of	3
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## D. EMISSION PÖINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

### **Emission Point Description and Type**

1.	Identification of Point on I Flow Diagram? S-AH-1	Plot Plan or	2. Emission Po	oint Type Code:	
3	Descriptions of Emission I	Points Comprising	this Emissions 1	Unit for VE Tracking	(limit to
	100 characters per point):	omb Comprising	5 11110 2311110010110	ome for vib fraction,	5 (1111111 10
	100 characters per point).				
	Ash silo baghouse and ash	conditioning rea	gent baghouse		
4	ID Numbers or Description	ns of Emission U	nits with this Emi	ssion Point in Comp	non:
,,,	2 Trumbers of 2 coefficient	is of Emission C.			
_	Discharge Time Code:	Charle IIaia	L.s.	7 Evit Diamatan	
٥.	Discharge Type Code:	6. Stack Heig		7. Exit Diameter:	c .
	Р		feet		feet
8.	Exit Temperature:	9. Actual Vol	umetric Flow	10. Water Vapor:	
	<b>77</b> °F	Rate:			%
			acfm		
11.	Maximum Dry Standard F	low Rate:	12. Nonstack Er	nission Point Height	••
	2,0			85	feet
	_,-	<b></b>			
13	Emission Point UTM Coor	dinates:			
	Zone:	East (km):	Nort	h (km):	
14	Emission Point Comment	limit to 200 char	acters):		
		(iiiiiii to 200 ciiai	uototoj.		

<b>Emissions Unit Information Section</b>	3	of	3
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## E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate: Segment 1 of 1					
1. Segment Description (Pr	1. Segment Description (Process/Fuel Type) (limit to 500 characters):				
Not Applicable					
2 Source Classification Co	do (CCC):	3. SCC Units			
2. Source Classification Co	de (SCC):	3. SCC Onts	·		
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6. Estimated Annual Activity Factor:		
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit:		
10. Segment Comment (limi	t to 200 characters	s):			
Segment Description and R	tate: Segment	of			
1. Segment Description (Pro	ocess/Fuel Type)	(limit to 500 ch	aracters):		
		T	<del></del>		
2. Source Classification Co	de (SCC):	3. SCC Units	S:		
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 6. Estimated Annual Activity Factor:				
10. Maximum % Sulfur:	8. Maximum % Ash:  9. Million Btu per SCC Unit:				
10. Segment Comment (limit	10. Segment Comment (limit to 200 characters):				

## F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	2. Primary Control	Secondary Control     Device Code	4. Pollutant
	Device Code	Device Code	Regulatory Code
РМ	016	061	EL
<u> </u>			
		-	
		2	

Emissions Unit Information Section $_$	3	of _	3	Ash Handling
Pollutant Detail Information Page	1	of	1	Particulate Matter - Total

## G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

**Emissions-Limited and Preconstruction Review Pollutants Only)** 

#### **Potential/Fugitive Emissions**

1.	Pollutant Emitted:	2. Total Percent Efficiency of Control:			
	PM	99.90 %			
3.	Potential Emissions:  0.17 lb/hour	4. Synthetically Limited? [ ]			
5.	Range of Estimated Fugitive Emissions: [X] 1 [ ] 2 [ ] 3				
6.	Emission Factor: 0.01 gr/dscfm	7. Emissions			
	Reference: PSD-FL-006D	Method Code:			
8.	Calculation of Emissions (limit to 600 chara	cters):			
	2000 dscfm x 0.01 gr/dscf x .00858 = 0.1714 lb/hr (0.1714 lb/hr x 8,760 hr/yr) / 2000 lb/ton = 0.7507 TPY Per PSD-FL-006(D) limit of 0.01 grains/dscf. Does not include fugitive emissions. Calculations based on normal operating conditions and maximum may vary.				
9.		ment (limit to 200 characters): or visible emissions of 5% opacity. Item 3 excludes fugitive emissions. Maximum may			
All	lowable Emissions Allowable Emissions	<u>1</u> of <u>1</u>			
1.	Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:			
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:			
ĺ	0.01 grains/dscf	<b>0.17</b> lb/hour <b>0.75</b> tons/year			
5.	Method of Compliance (limit to 60 character	rs):			
	EPA Method 5 or 9				
6.	Allowable Emissions Comment (Desc. of O	perating Method) (limit to 200 characters):			
	Per PSD-FL-006D particulate matter limit of opacity. Item 4 is based on normal operating				

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0037532Y/F2/TV 10/6/00

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## H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation1 of1_					
1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity:			
	VE	[X] Rule _ [ ] Other			
3.	Requested Allowable Opacity:				
	Normal Conditions: 5 % Ex	ceptional Conditions: %			
	Maximum Period of Excess Opacity Allowe	ed: min/hour			
4.	Method of Compliance:				
	EPA Method 9				
5.	Visible Emissions Comment (limit to 200 c	haracters):			
		ermit No. PSD-FL006D. FDEP allows 2 hours hut-down, or malfunction during any 24-hour			
<u>Co</u>	I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring)  Continuous Monitoring System: Continuous Monitorof				
1.	Parameter Code:	2. Pollutant(s):			
3.	CMS Requirement:	[ ] Rule [ ] Other			
4.	Monitor Information:				
	Manufacturer:	0 111			
_	Model Number:	Serial Number:			
5.	Installation Date:	6. Performance Specification Test Date:			
7.	Continuous Monitor Comment (limit to 200	characters):			

<b>Emissions</b>	Unit Inforn	nation Section	3	of	3
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## J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

### **Supplemental Requirements**

1.	Process Flow Diagram
	[X] Attached, Document ID: MCI-EU2-J1 [] Not Applicable [] Waiver Requested
2.	Fuel Analysis or Specification
	[ ] Attached, Document ID: [X] Not Applicable [ ] Waiver Requested
3.	Detailed Description of Control Equipment
	[X] Attached, Document ID: MIC-EU3-J3 [ ] Not Applicable [ ] Waiver Requested
4.	Description of Stack Sampling Facilities
	[ ] Attached, Document ID: [X] Not Applicable [ ] Waiver Requested
5.	Compliance Test Report
	[ ] Attached, Document ID:
	[ ] Previously submitted, Date:
	[X] Not Applicable
6	Procedures for Startup and Shutdown
0.	[ ] Attached, Document ID: [X] Not Applicable [ ] Waiver Requested
7.	Operation and Maintenance Plan
	[X] Attached, Document ID: MIC-EU1-J7 [ ] Not Applicable [ ] Waiver Requested
8.	Supplemental Information for Construction Permit Application
	[ ] Attached, Document ID: [X] Not Applicable
9.	Other Information Required by Rule or Statute
	[ ] Attached, Document ID: [X] Not Applicable
10.	Supplemental Requirements Comment:

Emissions Unit Information Section 3 of 3
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### Additional Supplemental Requirements for Title V Air Operation Permit Applications

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ſ	11. Alternative Methods of Operation	
I	[ ] Attached, Document ID: [X] Not Applicable	
L		
l	12. Alternative Modes of Operation (Emissions Trading)	
l	[ ] Attached, Document ID: [X] Not Applicable	
ŀ		_
l	13. Identification of Additional Applicable Requirements	
	[X] Attached, Document ID: MIC-FE-C12 [ ] Not Applicable	
Ì	14. Compliance Assurance Monitoring Plan	
l	[ ] Attached, Document ID: [X] Not Applicable	
ļ		_
l	15. Acid Rain Part Application (Hard-copy Required)	
ĺ	[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))	
l	Attached, Document ID:	
l	[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)	
l	Attached, Document ID:	
l		
l	[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID:	
l		
١	[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)	
	Attached, Document ID:	
	[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)	
	Attached, Document ID:	
	[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)	
	Attached, Document ID:	
	[X] Not Applicable	
	[ A ] Not Applicable	

ATTACHMENT MIC-EU3-J3
DETAILED DESCRIPTION OF CONTROL EQUIPMENT

# ATTACHMENT MIC-EU3-J3 DETAILED DESCRIPTION OF CONTROL EQUIPMENT

The fly ash from the air quality control system will be conveyed to a fly ash silo in enclosed conveyors. A small baghouse fabric filter is installed on the top of the silo to contain fly ash dust. The design parameters are as follows:

<u>Parameter</u>	<u>Range</u>
Connection to silo	2 - 5 square feet
Cloth Area	100 - 900 square feet
Air Volume	500 - 2,500 cfm
Air to Cloth Ratio	2.5 – 5.0:1