

0570127-002-AC

Rcvd 9-16-1997

**City of Tampa, Florida
Environmental Services**

**McKay Bay Refuse-to-Energy Facility
Air Pollution Control Equipment and
Facility Improvements**

**Source Modification Construction
Air Permit Application**

Volume II

**Application for Air Permit-
Long Form No. 62-210.900(1)**

Prepared by:

**Camp Dresser & McKee Inc.
Tampa, Florida**

**RTP Environmental Associates Inc.
Green Brook, New Jersey**

September 1997

Application

Section 1

Department of
Environmental Protection

DIVISION OF AIR RESOURCES MANAGEMENT
APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

Identification of Facility Addressed in This Application

1. Facility Owner/Company Name : City of Tampa	
2. Site Name : McKay Bay Refuse-to-Energy Facility	
3. Facility Identification Number : 0570127	<input type="checkbox"/> Unknown
4. Facility Location : McKay Bay Refuse-to-Energy Facility Street Address or Other Locator : 107 North 34th Street City : Tampa County : Hillsborough Zip Code : 33605-6210	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

I. Part 1 - 1

Owner/Authorized Representative or Responsible Official

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

Name : Dick Greco
Title : Mayor

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

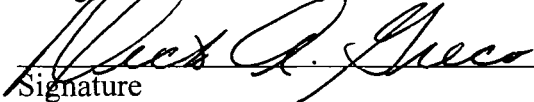
Organization/Firm : City of Tampa
Street Address : 306 E. Jackson
City : Tampa
State : FL Zip Code : 33602-____

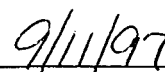
3. Owner/Authorized Representative or Responsible Official Telephone Numbers :

Telephone : (813)274-8251 Fax : (813)274-8127

4. Owner/Authorized Representative or Responsible Official Statement :

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


Signature


Date

* Attach letter of authorization if not currently on file.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type
101	Municipal Waste Combustion Unit #1	
102	Municipal Waste Combustion Unit #2	
103	Municipal Waste Combustion Unit #3	
104	Municipal Waste Combustion Unit #4	
105	Flyash Silo/Ash Handling System	
106	Lime Storage Silos	
107	Activated Carbon Storage Silo	
108	MWC Auxiliary Burner - Unit #1	
109	MWC Auxiliary Burner - Unit #2	
110	MWC Auxiliary Burner - Unit #3	
111	MWC Auxiliary Burner - Unit #4	

Purpose of Application and Category

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

This Application for Air Permit is submitted to obtain :

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

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

Current construction permit number :

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

Operation permit to be renewed :

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

Current construction permit number :

Operation permit to be revised :

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

Operation permit to be revised/corrected :

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

Operation permit to be revised :

Reason for revision :

Category II : All Air Operation Permit Applications Subject to Processing Under Rule 62-210.300(2)(b), F.A.C.

This Application for Air Permit is submitted to obtain :

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

Current operation/construction permit number(s) :

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

Operation permit to be renewed :

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

Operation permit to be revised :

Reason for revision :

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

This Application for Air Permit is submitted to obtain :

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

I. Part 4 - 2

Current operation permit number(s), if any :
A029-206279

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

Current operation permit number(s) :

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

Application Processing Fee

Check one :

Attached - Amount : \$250.00

Not Applicable.

Construction/Modification Information

1. Description of Proposed Project or Alterations :	
<p>The facility's existing four mass-burn combustion units will be upgraded to achieve greater combustion control and improve combustion efficiency. The existing grate furnaces, rotary kilns, electrostatic precipitators (ESP) and ID fans will be replaced. The existing waste heat boiler may also be modified to be compatible with the new combustion system. The new air pollution control (APC) equipment consist of a spray dryer absorber (SDA), a fabric filter (FF), an activated carbon injection (ACI) system, and an ID fan installed downstream of each combustor. In addition, selective non-catalytic reduction (SNCR) systems and auxiliary fuel burners will be installed in the combustion zone of the furnaces. The two existing stacks will be replaced with a single new stack.</p> <p>These facility enhancements will result in a net decrease in actual emissions. The City of Tampa is seeking, with this application, to modify its existing air permit (No. A029-206279). Because of more stringent requirements in the Emissions Guidelines for Municipal Waste Combustors (40 CFR 60 Subpart Cb as adopted in FAC 62-204.800(8)), and improvements made possible by the proposed retrofit, the proposed air emissions limits will be the same or lower than those in the existing permit. In addition, some new limits will be established for pollutants that have not been limited before. Table 1-1 in the Volume 1 of this application shows a comparison of existing and proposed emission limits.</p>	
2. Projected or Actual Date of Commencement of Construction :	12-Aug-1998
3. Projected Date of Completion of Construction :	21-Jan-2001

Professional Engineer Certification

1. Professional Engineer Name : Douglas W. Fredericks Registration Number : 44261	
2. Professional Engineer Mailing Address :	
Organization/Firm : Camp Dresser & McKee, Inc. Street Address : 1715 N. Westshore Blvd. S#875 City : Tampa	State : FL Zip Code : 33602-____

I. Part 5 - 1

3. Professional Engineer Telephone Numbers :

Telephone : (813)221-2900

Fax : (813)221-8787

I. Part 5 - 2

DEP Form No. 62-210.900(1) - Form

Effective : 3-21-96

4. Professional Engineer Statement :

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

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

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

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

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

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

Signature

Date

9/11/97

* Attach any exception to certification statement.

I. Part 6 - 1

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Application Contact

1. Name and Title of Application Contact :
Name : Douglas W. Fredericks Title : Project Engineer
2. Application Contact Mailing Address :
Organization/Firm : Camp Dresser & McKee, Inc. Street Address : 1715 N Westshore Blvd Suite875 City : Tampa State : FL Zip Code : 33602-
3. Application Contact Telephone Numbers :
Telephone : (813)221-2900 Fax : (813)221-8787

Application Comment

The City of Tampa is proposing to install new air pollution control (APC) equipment and make other improvements to the City's McKay Bay RefusetEnergy Facility (Facility). The proposed improvements (collectively "the Retrofit") will allow the Facility to meet the new emissions limits and monitoring requirements established by the U.S. EPA's Emissions Guidelines (EG) for large Municipal Waste Combustors (MWC), which are codified in 40 Code of Federal Regulations (CFR) Subpart Cb and adopted by the Florida Department of Environmental Protection (FDEP) in Florida Administrative Code (FAC) 62-204.800(8).

The proposed improvements to the APC equipment consist of replacing the existing electrostatic precipitators (ESP) with spray dry absorbers (SDA), fabric filters (FF), activated carbon injection (ACI) systems, and selective non-catalytic reduction (SNCR) systems. The new APC equipment will require storage silos for lime and carbon. Particulate matter (PM) emissions during silo filling operations will be controlled with fabric filter dust collectors. The City is also planning to improve and upgrade each MWC, most likely by replacing the existing grate furnaces, rotary kilns, and waste heat boilers. New bottom and fly ash handling systems will also be installed to support the new combustion and APC systems, and a new ash residue storage building will be constructed. The two existing 165-foot stacks (two units per stack) will be replaced by a single, multi-flued 201-foot stack.

With this application, the City is requesting amendments to its existing air permit (AO-29206279) and authorization to proceed with the Retrofit in compliance with the EG. Revisions to the existing operating

permit required by the EG include:

New emission limits and/or averaging times for nearly all pollutants, including emission limits for pollutants not currently regulated by the existing permit [carbon monoxide (CO), dioxins/furans, hydrogen chloride (HCl), and cadmium (Cd)].

Continuous emissions monitoring (CEM) for sulfur dioxide (SO₂), nitrogen oxides (NO_x), and CO not currently required under the existing permit.

Annual compliance tests for pollutants not measured by CEM [PM, lead (Pb), mercury (Hg), Cd, HCl, dioxins/furans, and opacity for the MWC and fugitive sources], including some new pollutants and monitoring methods not included in the existing permit.

Real-time, continuous monitoring of Good Combustion Practices (GCP) parameters (steam or feedwater flow to precisely monitor MWC load and PM device inlet temperature) to minimize MWC organic emissions as well as other parameters such as carbon injection rates to ensure compliance with facility-specific requirements established by compliance tests.

In addition to the EG requirements, the City is proposing additional revisions to the existing operating permit for the Facility after the proposed improvements consistent with current industry practices and EG definitions as follows:

Replacement of the VOC limit with the EG requirement for GCP and continuous CO monitoring.

More accurate definition of the types of fuels allowed to be processed at the Facility consistent with the EG definition of municipal solid waste (MSW).

More complete description of the allowable MWC operating conditions which recognizes unit operations under a wide range of MSW heat contents.

Restricting auxiliary burner natural gas usage in each MWC to less than 10 percent of the total annual gross heat input to obviate the NO_x monitoring and reporting requirements under 40 CFR 60 Subpart Db.

Requirement under 40 CFR 60 Subpart E to determine the amount of MSW combusted be determined on a daily average basis for each MWC using the Facility's truck scale weight data for a calendar month and MWC operating data for the same calendar month.

Section 2

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility, Location, and Type

1. Facility UTM Coordinates : Zone : 17 East (km) : 360.20 North (km) : 3092.21			
2. Facility Latitude/Longitude : Latitude (DD/MM/SS) : 27 56 57 Longitude (DD/MM/SS) : 82 25 15			
3. Governmental Facility Code : 4	4. Facility Status Code : A	5. Facility Major Group SIC Code : 49	6. Facility SIC(s) : 4953
7. Facility Comment :			

Facility Contact

1. Name and Title of Facility Contact : George Woodward Plant Manager	
2. Facility Contact Mailing Address : Organization/Firm : McKay Bay Refuse-to-Energy Facility Street Address : 107 N. 34th St. City : Tampa State : FL Zip Code : 33605-6210	
3. Facility Contact Telephone Numbers : Telephone : (813)248-1457 Fax : (813)247-2052	

Facility Regulatory Classifications

1. Small Business Stationary Source?	N
2. Title V Source?	Y
3. Synthetic Non-Title V Source?	N
4. Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?	Y
5. Synthetic Minor Source of Pollutants Other than HAPs?	N
6. Major Source of Hazardous Air Pollutants (HAPs)?	Y
7. Synthetic Minor Source of HAPs?	N
8. One or More Emissions Units Subject to NSPS?	Y
9. One or More Emission Units Subject to NESHAP?	N
10. Title V Source by EPA Designation?	N
11. Facility Regulatory Classifications Comment :	
Section 2 of Volume 1 provides an air quality regulatory overview for the facility. The list that follows also appears in Appendix A with notes.	

B. FACILITY REGULATIONS

Rule Applicability Analysis

See Volume 1, Section 2

B. FACILITY REGULATIONS

List of Applicable Regulations

40 CFR 82 Protection of Stratospheric Ozone

FAC 62-4 Permits

FAC 62-103 Rules of Administrative Procedure

FAC 62-210 Stationary Sources- General Requirements

FAC 62-210.300 Permits Required

FAC 62-210.300(3)(a)5 Exemption for internal combustion engines

FAC 62-210.300(3)(a)16 Exemption for brazing, soldering or welding equipment

FAC 62-210.300(3)(a)20-(3)(a)21 Exemption for emergency electrical generators, heating units, etc.

FAC 62-210.300(5) Notification of Startup

FAC 62-210.300(6) Emission Unit Reclassification

FAC 62-210.350 Public Notice and Comment

FAC 62-210.350(3) Additional Public Notice Requirements for Title V sources

FAC 62-210.360 Administrative Permit Corrections

FAC 62-210.370(3) Annual Operating Reports

II. Part 3b - 1

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

B. FACILITY REGULATIONS

List of Applicable Regulations

FAC 62-210.550 (GEP) Stack Height Policy

FAC 62-210.650 Circumvention

FAC 62-210.700 Excess Emissions

FAC 62-210.900 Forms and Instructions

FAC 62-213 Operating Permits for Major Sources

FAC 62-256 Open Burning and Frost Protection Fires

FAC 62-296 Stationary Sources- Emission Standards

FAC 62-296.320(2) Objectionable Odor Prohibited

FAC 62-296.320(3) Industrial, Commercial, and Municipal Open Burning Prohibited

FAC 62-296.320(4)(c) Unconfined Emissions of Particulate Matter

FAC 62-296.416(3)(e) Specific Emission Limiting and Performance Standards for Mercury

FAC 62-296.320(4)(a) General Particulate Emission Limiting Standards

FAC 62-296.500 RACT - VOC and NOx Emitting Facilities Not Applicable

FAC 62-296.600 RACT - Lead Not Applicable

II. Part 3b - 2

DEP Form No. 62-210.900(1) - Form

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B. FACILITY REGULATIONS

List of Applicable Regulations

FAC 62-296.700 RACT - Particulate matter

40 CFR 60 Subpart A New Source Performance Standards - General Provisions

40 CFR 60 Subpart E Standards of Performance for Incinerators

FAC 62-210.700 Excess Emissions

FAC 62-296.320(4)(b) General Visible Emission Standards

FAC 62-296.401(3) Specific Emission Limiting and Performance Standards Requirements for Incinerators

FAC 62-297.310(1) Required Number of Tests

FAC 62-297.310(2) Operating Rate during testing

FAC 62-297.310(3) Calculation of Emission Rate

FAC 62-297.310(4) Applicable Test Procedures

FAC 62-297(5) Required Stack Sampling Facilities

FAC 62.297.310(6) Frequency of Compliance Tests

FAC 62-297.310(7) Test Reports

40 CFR 50 Ambient Air Quality Standards

II. Part 3b - 3

DEP Form No. 62-210.900(1) - Form

Effective : 3-21-96

B. FACILITY REGULATIONS

List of Applicable Regulations

FAC 62-204.800(8) Emissions Guidelines for Municipal Waste Combustors incorporated by reference

40 CFR 60 Subpart Cb Emissions Guidelines for Existing Municipal Waste Combustors (MWCs)

40 CFR 60 Subpart Db Standards of Performance for Industrial-Commercial-Institutional Steam Generati

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

FAC-62-212 Stationary Sources Preconstruction Review

II. Part 3b - 4

DEP Form No. 62-210.900(1) - Form

Effective : 3-21-96

C. FACILITY POLLUTANTS

Facility Pollutant Information

1. Pollutant Emitted	2. Pollutant Classification
SO2	A
NOX	A
CO	A
H107	A
PM	B
PB	B
H114	B
H027	B
H021	B
DIOX	B
HCL	A

II. Part 4 - 1

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

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 1

1. Pollutant Emitted :	SO2	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :	No emissions cap is requested. The pollutant is subject to limitation in the EG.	

II. Part 4b - 1

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 2

1. Pollutant Emitted :	NOX	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :	No emissions cap is requested. The pollutant is subject to limitation in the EG.	

II. Part 4b - 2

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 3

1. Pollutant Emitted :	CO	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :	No emission cap is requested. The pollutant is subject to limitation in the EG.	

II. Part 4b - 3

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 4

1. Pollutant Emitted :	H107	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :	No emissions cap is requested. The pollutant is subject to limitation in the existing operating permit.	

II. Part 4b - 4

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 5

1. Pollutant Emitted :	PM	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :	No emissions cap is requested. The pollutant is subject to limitation in the EG.	

II. Part 4b - 5

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 7

1. Pollutant Emitted :	PB	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :	No emissions cap is requested. The pollutant is subject to limitation in the EG.	

II. Part 4b - 6

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 8

1. Pollutant Emitted :	H114	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :	No emissions cap is requested. The pollutant is subject to limitation in the EG.	

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 9

1. Pollutant Emitted :	H027	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :	No emissions cap is requested. The pollutant is subject to limitation in the EG.	

II. Part 4b - 8

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 10

1. Pollutant Emitted :	H021	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :	No emissions cap is requested. The pollutant is subject to limitation in the existing operating permit.	

II. Part 4b - 9

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 11

1. Pollutant Emitted :	DIOX	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :	No emissions cap is requested. The pollutant is subject to limitation in the EG.	

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 12

1. Pollutant Emitted :	HCL	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :	No emissions cap is requested. The pollutant is subject to limitation in the EG.	

II. Part 4b - 11

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D. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications

1. Area Map Showing Facility Location :	Append. A Fig 1
2. Facility Plot Plan :	Append. A Fig 2
3. Process Flow Diagram(s) :	Append. A Fig 3
4. Precautions to Prevent Emissions of Unconfined Particulate Matter :	Append. A Att 1
5. Fugitive Emissions Identification :	Append A, Att 2
6. Supplemental Information for Construction Permit Application :	Volume 1

Additional Supplemental Requirements for Category I Applications Only

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

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 1

Municipal Waste Combustion Unit #1

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

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

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

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

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

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

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

III. Part 1 - 1

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

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Municipal Waste Combustion Unit #1		
2. Emissions Unit Identification Number : 101 [] No Corresponding ID [] Unknown		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? [] Yes [X] No	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment : This combustion unit will have a dedicated flue in a single four-flue stack.		

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Emissions Unit Control Equipment 1

1. Description : Fabric Filter
2. Control Device or Method Code : 16

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Emissions Unit Control Equipment 2

1. Description :	
Spray Dryer Absorber	
2. Control Device or Method Code :	41

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Emissions Unit Control Equipment 3

1. Description :	
Selective Non-Catalytic Reduction System	
2. Control Device or Method Code :	107

III. Part 3 - 3

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Emissions Unit Control Equipment 4

1. Description :	
Activated Carbon Injection	
2. Control Device or Method Code :	48

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Emissions Unit Control Equipment 1

1. Description :
Fabric Filter
2. Control Device or Method Code : 16

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

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Emissions Unit Details

1. Initial Startup Date :	22-Jan-2001		
2. Long-term Reserve Shutdown Date :			
3. Package Unit :			
Manufacturer :	To be provided once a vendor is selected	Model Number :	To be provided
4. Generator Nameplate Rating :	MW		
5. Incinerator Information :			
Dwell Temperature :		Degrees Fahrenheit	
Dwell Time :		Seconds	
Incinerator Afterburner Temperature :		Degrees Fahrenheit	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	120	mmBtu/hr		
2. Maximum Incinerator Rate :	23958.33	lb/hr	287.50	tons/day
3. Maximum Process or Throughput Rate :				
4. Maximum Production Rate :	23858	lbs/hour steam		
5. Operating Capacity Comment :	See operating window in Section 6 of Volume 1.			

Emissions Unit Operating Schedule

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

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Emissions Unit Information Section

1

Municipal Waste Combustion Unit #1

Rule Applicability Analysis

Refer to Volume 1, Section 2

III. Part 6a - 1

DEP Form No. 62-210.900(1) - Form

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List of Applicable Regulations

Refer to Volume 1, Section 2

E. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 1

Municipal Waste Combustion Unit #1

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	See Vol. 1 Fig 6-4		
2. Emission Point Type Code :	2		
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking : (limit to 100 characters per point) Not Applicable for sources with single emission points			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	Emission units 1-4 will have a dedicted flue within a common stack.		
5. Discharge Type Code :	V		
6. Stack Height :	201	feet	
7. Exit Diameter :	4.2	feet	
8. Exit Temperature :	289	°F	
9. Actual Volumetric Flow Rate :	60894	acfm	
10. Percent Water Vapor :	14.77	%	
11. Maximum Dry Standard Flow Rate :	36686	dscfm	
12. Nonstack Emission Point Height :	feet		
13. Emission Point UTM Coordinates :			
Zone : 17	East (km) : 360.196	North (km) :	3092.208
14. Emission Point Comment :			

III. Part 7a - 1

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Municipal Waste Combustion Unit #1

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : The new municipal waste combustion units will have either a refractory, rotary waterwall, or a stoker waterwall furnace.	
2. Source Classification Code (SCC) : 5-01-999-99	
3. SCC Units : Tons Burned (all solid fuels)	
4. Maximum Hourly Rate : 11.98	5. Maximum Annual Rate : 104,937.50
6. Estimated Annual Activity Factor : 100.00	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 10	
10. Segment Comment :	

III. Part 8 - 1

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

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - SO ₂	041	016	EL
2 - NO _X	107		EL
3 - CO			EL
4 - VOC			EL
5 - H ₁₁₄	048	016	EL
6 - H ₀₂₇	016		EL
7 - H ₀₂₁	016		EL
8 - HCL	041	016	EL
9 - H ₁₀₇	041	016	EL
10 - DIOX	041	016	EL
11 - PB	016		EL

III. Part 9a - 1

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

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
12 - PM	016		EL

III. Part 9a - 2

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Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	75.00	percent removal	
4. Equivalent Allowable Emissions :	40.87	lb/hour	179.00 tons/year
5. Method of Compliance :	Continuous Emission Monitors		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Allowable emission is based on a 75% removal of 600 ppmdv inlet @ 7% O2.		

III. Part 9c - 1

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

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted : NOX			
2. Total Percent Efficiency of Control :		%	
3. Potential Emissions :	40.10	lb/hour	175.65 tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Range of Estimated Fugitive/Other Emissions:		to	tons/year
6. Emissions Factor : Reference : Emissions Guidelines			
7. Emissions Method Code : 0			
8. Calculations of Emissions : See Appendix B of Volume 1			
9. Pollutant Potential/Estimated Emissions Comment : Emissions Guidelines for large MWCs			

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	205.00	ppmdv @ 7% O2	
4. Equivalent Allowable Emissions :	40.11	lb/hour	175.69 tons/year
5. Method of Compliance :	Continuous Emissions Monitor		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Allowable emissions request is based on the Emissions Guidelines for MWCs.		

III. Part 9c - 2

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

Emissions Unit Information Section 1

Municipal Waste Combustion Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 3

1. Pollutant Emitted : CO				
2. Total Percent Efficiency of Control :		%		
3. Potential Emissions :		11.91	lb/hour	52.18 tons/year
4. Synthetically Limited? [] Yes [X] No				
5. Range of Estimated Fugitive/Other Emissions:		to tons/year		
6. Emissions Factor : Reference : Emissions Guidelines				
7. Emissions Method Code : 0				
8. Calculations of Emissions : See Appendix B of Volume 1				
9. Pollutant Potential/Estimated Emissions Comment : Based on Emissions Guidelines for large MWCs.				

Emissions Unit Information Section
Municipal Waste Combustion Unit #1

1

Pollutant Information Section

3

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	100.00	ppmdv @ 7% O2	
4. Equivalent Allowable Emissions :	11.91	lb/hour	52.18 tons/year
5. Method of Compliance :	Continuous Emission Monitor		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The allowable emissions is based on the Emissions Guidelines for MWCs.		

III. Part 9c - 3

Emissions Unit Information Section
Municipal Waste Combustion Unit #1

1

Pollutant Information Section

4

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	OTHER
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	
4. Equivalent Allowable Emissions :	
	2.25 lb/hour 9.86 tons/year
5. Method of Compliance :	Methods 18A or 25A
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Requested emission limit is based on the existing permit limit (AO 29-206279).

III. Part 9c - 4

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

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 5

1. Pollutant Emitted : H114		
2. Total Percent Efficiency of Control :	85.00	%
3. Potential Emissions :	lb/hour	tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions: <div style="text-align: right; margin-right: 100px;">to</div> <div style="text-align: right;">tons/year</div>		
6. Emissions Factor : Reference : Emissions Guidelines		
7. Emissions Method Code :		
8. Calculations of Emissions : See Appendix B of Volume 1		
9. Pollutant Potential/Estimated Emissions Comment : The combination of the State Mercury Rule and the Emissions Guidelines specify a 85% removal or a concentration of 70 ug/dscm, whichever is less stringent. Based on a 900 ug/dscm @ 7% O2 maximum inlet, the percent removal basis is less stringent. Item No. 3, above: Potential Emissions: 0.014 lb/hour 0.061 tons/year (ELSA does not permit enough digits in this line.)		

III. Part 9b - 5

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Pollutant Information Section 5

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	85.00 percent removal
4. Equivalent Allowable Emissions :	lb/hour tons/year
5. Method of Compliance :	Method 29
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Allowable emission limit is based on the Emissions Guidelines for MWC, and 85% removal of a maximum inlet concentration of 900 ug/dscm @ 7% O2. Item No. 4, above: Equivalent Allowable Emissions: 0.0014 lb/hour 0.061 tons/year (ELSA does not allow enough digits in this line.)

III. Part 9c - 5

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

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 6

1. Pollutant Emitted : H027		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :	lb/hour	tons/year
4. Synthetically Limited? [] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions:	to	tons/year
6. Emissions Factor : Reference : Emissions Guidelines		
7. Emissions Method Code :	0	
8. Calculations of Emissions :		
See Appendix B, Volume 1.		
9. Pollutant Potential/Estimated Emissions Comment :		
Item No. 3, above: Potential Emissions: 0.00409 lb/hour 0.018 tons/year (ELSA does not allow enough digits in this line.)		

Emissions Unit Information Section
Municipal Waste Combustion Unit #1

1

Pollutant Information Section

6

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	40.00 ug/dscm @ 7% O2
4. Equivalent Allowable Emissions :	lb/hour tons/year
5. Method of Compliance :	Method 29
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The allowable emission limit is based on the Emissions Guidelines for large MWCs. Item No. 4, above: Equivalent Allowable Emissions: 0.00409 lb/hour 0.018 tons/year (ELSA does not allow enough digits in this line.)

III. Part 9c - 6

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

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 7

1. Pollutant Emitted : H021		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :		
lb/hour		tons/year
4. Synthetically Limited? [] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions:		
		to tons/year
6. Emissions Factor : Reference : Current permit limit		
7. Emissions Method Code : 0		
8. Calculations of Emissions : See Appendix B, Volume 1.		
9. Pollutant Potential/Estimated Emissions Comment :		
Item No. 3, above: Potential Emissions: 0.000115 lb/hour 0.000504 tons/year (ELSA does not allow enough digits in this line.)		

Emissions Unit Information Section . 1
Municipal Waste Combustion Unit #1

Pollutant Information Section 7

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	1.15 10-4 lb/hour
4. Equivalent Allowable Emissions :	lb/hour tons/year
5. Method of Compliance :	Method 29
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The allowable emission limit requested is based on the existing permit limit (AO 29-206279). Item No. 4, above: Equivalent Allowable Emissions: 0.000115 lb/hour 0.000504 tons/year (ELSA does not allow enough digits in this line.)

III. Part 9c - 7

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

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 8

1. Pollutant Emitted : HCL			
2. Total Percent Efficiency of Control :	95.00	%	
3. Potential Emissions :	15.51	lb/hour	67.92 tons/year
4. Synthetically Limited? [] Yes [X] No			
5. Range of Estimated Fugitive/Other Emissions:		to	tons/year
6. Emissions Factor : Reference : Emissions Guidelines			
7. Emissions Method Code : 0			
8. Calculations of Emissions : See Appendix B of Volume 1.			
9. Pollutant Potential/Estimated Emissions Comment :			
<p>The Emissions Guidelines specify a 95% removal or a concentration of 29 ppmdv @ 7% O₂, whichever is less. Based on a 2000 ppmdv maximum inlet @ 7% O₂, the percent removal basis is less stringent.</p>			

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Pollutant Information Section 8

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	95.00	percent removal	
4. Equivalent Allowable Emissions :	15.51	lb/hour	67.92 tons/year
5. Method of Compliance :	Methods 26 and 26A		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The emission limit requested is based on a 95% removal of a 2000 ppmdv inlet @ 7% O2.		

III. Part 9c - 8

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Pollutant Information Section 9

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		OTHER	
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :		1.50	lb/hr
4. Equivalent Allowable Emissions :			
	1.50	lb/hour	6.57 tons/year
5. Method of Compliance :			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :			
Emission limit is based on current permit limits (AO 29-206279).			

III. Part 9c - 9

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

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 10

1. Pollutant Emitted : DIOX		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :	lb/hour	tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions:	to	tons/year
6. Emissions Factor : Reference : 40 CFR 60 Subpart Cb		
7. Emissions Method Code : 0		
8. Calculations of Emissions : See Appendix B of Volume 1.		
9. Pollutant Potential/Estimated Emissions Comment : Item No. 3 above: Potential emissions: 3.07 x 10 ⁻⁶ lb/hour 1.34 x 10 ⁻⁵ tons/year (ELSA does not permit entry of this many digits in this line.)		

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Pollutant Information Section 10

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	30.00 ng/dscm @ 7% O2
4. Equivalent Allowable Emissions :	lb/hour tons/year
5. Method of Compliance :	Method 23
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	<p>The allowable emissions limit is based on the Emissions Guidelines for large MWCs.</p> <p>Item No. 4., above: Equivalent Allowable Emissions: 3.07 x 10⁻⁶ lb/hour 1.34 x 10⁻⁵ tons/year (ELSA does not permit this many digits in this line.) (ELSA does not allow entry of this many digits in that line.)</p>

III. Part 9c - 10

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

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 11

1. Pollutant Emitted : PB				
2. Total Percent Efficiency of Control :		%		
3. Potential Emissions :		0.05	lb/hour	0.20 tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
5. Range of Estimated Fugitive/Other Emissions: <p align="right">to tons/year</p>				
6. Emissions Factor : Reference : Emissions Guidelines				
7. Emissions Method Code : 0				
8. Calculations of Emissions : See Appendix B of Volume 1.				
9. Pollutant Potential/Estimated Emissions Comment :				

Emissions Unit Information Section
Municipal Waste Combustion Unit #1

1

Pollutant Information Section

11

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	440.00	ug/dscm @ 7% O2	
4. Equivalent Allowable Emissions :	0.05	lb/hour	0.20 tons/year
5. Method of Compliance :	Method 29		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The emission limit requested is based on the Emissions Guidelines for large MWCs.		

III. Part 9c - 11

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

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 12

1. Pollutant Emitted : PM				
2. Total Percent Efficiency of Control :		%		
3. Potential Emissions :				
	2.81	lb/hour	12.31	tons/year
4. Synthetically Limited? [] Yes [X] No				
5. Range of Estimated Fugitive/Other Emissions:				
		to		tons/year
6. Emissions Factor : Reference : Emissions Guidelines				
7. Emissions Method Code : 0				
8. Calculations of Emissions : See Appendix B of Volume 1.				
9. Pollutant Potential/Estimated Emissions Comment :				

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Pollutant Information Section 12

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	0.01	gr/dscf @ 7% O2	
4. Equivalent Allowable Emissions :	2.81	lb/hour	12.31 tons/year
5. Method of Compliance :	Method 5		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The requested allowable limit is 0.12 gr/dscf @7% O2. This number does not fit in field # 3 above.		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	15
2. Basis for Allowable Opacity :	OTHER
3. Requested Allowable Opacity :	Normal Conditions : 10 % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :	Method 9 and Continuous Opacity Monitor
5. Visible Emissions Comment :	The opacity limit is based on Emissions Guidelines for large MWC units.

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code : VE	2. Pollutant :
3. CMS Requirement : RULE	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Information above to be provided. Two monitors to be required for % control calculations.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code : EM	2. Pollutant : CO
3. CMS Requirement : RULE	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Information above to be provided.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Continuous Monitoring System : Continuous Monitor 3

1. Parameter Code : EM	2. Pollutant : NOX
3. CMS Requirement :	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Information above to be provided.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
Municipal Waste Combustion Unit #1

Continuous Monitoring System : Continuous Monitor 4

1. Parameter Code : EM	2. Pollutant : SO2
3. CMS Requirement :	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Information above to be provided.	

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

Emissions Unit Information Section 1

Municipal Waste Combustion Unit #1

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

-] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
-] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
-] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
-] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
-] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

III. Part 12 - 13

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2. Increment Consuming for Nitrogen Dioxide?

- [X] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- [] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :		
PM :	C	NO2 : E
SO2 :	C	
4. Baseline Emissions :		
PM :	0.0000 lb/hour	0.0000 tons/year
SO2 :	0.0000 lb/hour	0.0000 tons/year
NO2 :		189.7000 tons/year
5. PSD Comment :		

III. Part 12 - 15

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L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 1

Municipal Waste Combustion Unit #1

Supplemental Requirements for All Applications

1. Process Flow Diagram :	App. A, Fig. 3
2. Fuel Analysis or Specification :	Vol. 1, Sect. 6
3. Detailed Description of Control Equipment :	To be provided.
4. Description of Stack Sampling Facilities :	To be provided.
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statute :	NA

Additional Supplemental Requirements for Category I Applications Only

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

III. Part 13 - 1

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

III. Part 13 - 2

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 2

Municipal Waste Combustion Unit #2

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

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

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

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

III. Part 1 - 2

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

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Municipal Waste Combustion Unit #2		
2. Emissions Unit Identification Number : 102 <input type="checkbox"/> No Corresponding ID <input type="checkbox"/> Unknown		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment : This combustion unit will have a dedicated flue in a single four-flue stack.		

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Emissions Unit Control Equipment 1

1. Description :	
Fabric Filter	
2. Control Device or Method Code :	16

III. Part 3 - 1

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Emissions Unit Control Equipment 2

1. Description :	
Spray Dryer Absorber	
2. Control Device or Method Code :	41

III. Part 3 - 2

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Emissions Unit Control Equipment 3

1. Description :	
Selective Non-Catalytic Reduction System	
2. Control Device or Method Code :	107

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Emissions Unit Control Equipment 4

1. Description :	
Activated Carbon Injection	
2. Control Device or Method Code :	48

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

Emissions Unit Information Section

2

Municipal Waste Combustion Unit #2

Emissions Unit Details

1. Initial Startup Date :	22-Jan-2001		
2. Long-term Reserve Shutdown Date :			
3. Package Unit :			
Manufacturer :	To be provided once a vendor is selected	Model Number :	To be provided
4. Generator Nameplate Rating :	MW		
5. Incinerator Information :			
Dwell Temperature :		Degrees Fahrenheit	
Dwell Time :		Seconds	
Incinerator Afterburner Temperature :		Degrees Fahrenheit	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	120	mmBtu/hr		
2. Maximum Incinerator Rate :	23958.33	lb/hr	287.50	tons/day
3. Maximum Process or Throughput Rate :				
4. Maximum Production Rate :	23858	lbs/hour steam		
5. Operating Capacity Comment :	See operating window in Section 6 of Volume 1.			

Emissions Unit Operating Schedule

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

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Rule Applicability Analysis

Refer to Volume 1, Section 2

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List of Applicable Regulations

Refer to Volume 1, Section 2

E. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 2

Municipal Waste Combustion Unit #2

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	See Vol. 1 Fig 6-4		
2. Emission Point Type Code :	2		
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking : (limit to 100 characters per point) Not Applicable for sources with single emission points			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	Emission units 1-4 will have a dedicted flue within a common stack.		
5. Discharge Type Code :	V		
6. Stack Height :	201	feet	
7. Exit Diameter :	4.2	feet	
8. Exit Temperature :	289	°F	
9. Actual Volumetric Flow Rate :	60894	acfm	
10. Percent Water Vapor :	14.77	%	
11. Maximum Dry Standard Flow Rate :	36686	dscfm	
12. Nonstack Emission Point Height :	feet		
13. Emission Point UTM Coordinates :			
Zone :	17	East (km) :	360.196
		North (km) :	3092.208
14. Emission Point Comment :			

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F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2

Municipal Waste Combustion Unit #2

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : The new municipal waste combustion units will have either a refractory, rotary waterwall, or a stoker waterwall furnace.	
2. Source Classification Code (SCC) : 5-01-999-99	
3. SCC Units : Tons Burned (all solid fuels)	
4. Maximum Hourly Rate : 11.98	5. Maximum Annual Rate : 104,937.50
6. Estimated Annual Activity Factor : 100.00	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 10	
10. Segment Comment :	

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

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - SO2	041	016	EL
2 - NOX	107		EL
3 - CO			EL
4 - VOC			EL
5 - H114	048	016	EL
6 - H027	016		EL
7 - H021	016		EL
8 - HCL	041	016	EL
9 - H107	041	016	EL
10 - DIOX	041	016	EL
11 - PB	016		EL

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

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
12 - PM	016		EL

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

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : SO2			
2. Total Percent Efficiency of Control :	75.00	%	
3. Potential Emissions :	40.85	lb/hour	178.95 tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Range of Estimated Fugitive/Other Emissions:		to	tons/year
6. Emissions Factor : Reference : Emissions Guidelines			
7. Emissions Method Code : 0			
8. Calculations of Emissions : See Volume 1, Appendix B			
9. Pollutant Potential/Estimated Emissions Comment : The Emission Guidelines specifies a 75% removal or a concentration of 29 ppmdv @ 7% O2, whichever is less stringent. Based on a 600 ppmdv maximum inlet, the percent removal basis is less stringent.			

Emissions Unit Information Section
Municipal Waste Combustion Unit #2

2

Pollutant Information Section

1

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	75.00 percent removal
4. Equivalent Allowable Emissions :	40.87 lb/hour 179.00 tons/year
5. Method of Compliance :	Continuous Emission Monitors
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Allowable emission is based on a 75% removal of 600 ppm _{dv} inlet @ 7% O ₂ .

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

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted : NOX			
2. Total Percent Efficiency of Control :		%	
3. Potential Emissions :	40.10	lb/hour	175.65 tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Range of Estimated Fugitive/Other Emissions:		to	tons/year
6. Emissions Factor : Reference : Emissions Guidelines			
7. Emissions Method Code : 0			
8. Calculations of Emissions : See Appendix B of Volume 1			
9. Pollutant Potential/Estimated Emissions Comment : Emissions Guidelines for large MWCs			

Emissions Unit Information Section
Municipal Waste Combustion Unit #2

2

Pollutant Information Section

2

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	205.00 ppmdv @ 7% O2
4. Equivalent Allowable Emissions :	
	40.11 lb/hour 175.69 tons/year
5. Method of Compliance :	
	Continuous Emissions Monitor
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	
	Allowable emissions request is based on the Emissions Guidelines for MWCs.

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Emissions Unit Information Section
Municipal Waste Combustion Unit #2

2

Pollutant Information Section

3

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	100.00	ppmdv @ 7% O2	
4. Equivalent Allowable Emissions :	11.91	lb/hour	52.18 tons/year
5. Method of Compliance :	Continuous Emission Monitor		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The allowable emissions is based on the Emissions Guidelines for MWCs.		

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

Emissions Unit Information Section 2

Municipal Waste Combustion Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 4

1. Pollutant Emitted : VOC				
2. Total Percent Efficiency of Control :		%		
3. Potential Emissions :		2.25	lb/hour	9.86 tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
5. Range of Estimated Fugitive/Other Emissions: <p align="right">to tons/year</p>				
6. Emissions Factor : Reference : current permit limit				
7. Emissions Method Code : 0				
8. Calculations of Emissions : See Appendix B of Volume 1.				
9. Pollutant Potential/Estimated Emissions Comment :				

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Pollutant Information Section 4

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	
4. Equivalent Allowable Emissions :	
	2.25 lb/hour 9.86 tons/year
5. Method of Compliance :	Methods 18A or 25A
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Requested emission limit is based on the existing permit limit (AO 29-206279).

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

Emissions Unit Information Section 2

Municipal Waste Combustion Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 5

1. Pollutant Emitted : H114		
2. Total Percent Efficiency of Control :	85.00	%
3. Potential Emissions :	lb/hour	tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions: <div style="text-align: right; margin-right: 100px;">to</div> <div style="text-align: right;">tons/year</div>		
6. Emissions Factor : Reference : Emissions Guidelines		
7. Emissions Method Code :		
8. Calculations of Emissions : See Appendix B of Volume 1		
9. Pollutant Potential/Estimated Emissions Comment : The combination of the State Mercury Rule and the Emissions Guidelines specify a 85% removal or a concentration of 70 ug/dscm, whichever is less stringent. Based on a 900 ug/dscm @ 7% O2 maximum inlet, the percent removal basis is less stringent. Item No. 3, above: Potential Emissions: 0.014 lb/hour 0.061 tons/year (ELSA does not permit enough digits in this line.)		

Emissions Unit Information Section
Municipal Waste Combustion Unit #2

2

Pollutant Information Section

5

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	85.00 percent removal
4. Equivalent Allowable Emissions :	lb/hour tons/year
5. Method of Compliance :	Method 29
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Allowable emission limit is based on the Emissions Guidelines for MWC, and 85% removal of a maximum inlet concentration of 900 ug/dscm @ 7% O2. Item No. 4, above: Equivalent Allowable Emissions: 0.0014 lb/hour 0.061 tons/year (ELSA does not allow enough digits in this line.)

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

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 6

1. Pollutant Emitted : H027		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :	lb/hour	tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions:	to	tons/year
6. Emissions Factor : Reference : Emissions Guidelines		
7. Emissions Method Code : 0		
8. Calculations of Emissions : See Appendix B, Volume 1.		
9. Pollutant Potential/Estimated Emissions Comment : Item No. 3, above: Potential Emissions: 0.00409 lb/hour 0.018 tons/year (ELSA does not allow enough digits in this line.)		

Emissions Unit Information Section
Municipal Waste Combustion Unit #2

2

Pollutant Information Section

6

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	40.00 ug/dscm @ 7% O2
4. Equivalent Allowable Emissions :	lb/hour tons/year
5. Method of Compliance :	Method 29
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The allowable emission limit is based on the Emissions Guidelines for large MWCs. Item No. 4, above: Equivalent Allowable Emissions: 0.00409 lb/hour 0.018 tons/year (ELSA does not allow enough digits in this line.)

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

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 7

1. Pollutant Emitted : H021		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :		
lb/hour		tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions:		
		to tons/year
6. Emissions Factor : Reference : Current permit limit		
7. Emissions Method Code : 0		
8. Calculations of Emissions : See Appendix B, Volume 1.		
9. Pollutant Potential/Estimated Emissions Comment : Item No. 3, above: Potential Emissions: 0.000115 lb/hour 0.000504 tons/year (ELSA does not allow enough digits in this line.)		

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Pollutant Information Section 7

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	1.15 10-4 lb/hour
4. Equivalent Allowable Emissions :	lb/hour tons/year
5. Method of Compliance :	Method 29
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The allowable emission limit requested is based on the existing permit limit (AO 29-206279). Item No. 4, above: Equivalent Allowable Emissions: 0.000115 lb/hour 0.000504 tons/year (ELSA does not allow enough digits in this line.)

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

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 8

1. Pollutant Emitted : HCL				
2. Total Percent Efficiency of Control :		95.00	%	
3. Potential Emissions :		15.51	lb/hour	67.92 tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
5. Range of Estimated Fugitive/Other Emissions: <p align="right">to tons/year</p>				
6. Emissions Factor : Reference : Emissions Guidelines				
7. Emissions Method Code : 0				
8. Calculations of Emissions : See Appendix B of Volume 1.				
9. Pollutant Potential/Estimated Emissions Comment : The Emissions Guidelines specify a 95% removal or a concentration of 29 ppm _{dv} @ 7% O ₂ , whichever is less. Based on a 2000 ppm _{dv} maximum inlet @ 7% O ₂ , the percent removal basis is less stringent.				

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Pollutant Information Section 8

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	95.00	percent removal	
4. Equivalent Allowable Emissions :	15.51	lb/hour	67.92 tons/year
5. Method of Compliance :	Methods 26 and 26A		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The emission limit requested is based on a 95% removal of a 2000 ppmdv inlet @ 7% O2.		

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

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 9

1. Pollutant Emitted : H107				
2. Total Percent Efficiency of Control :		%		
3. Potential Emissions :	1.50	lb/hour	6.57	tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
5. Range of Estimated Fugitive/Other Emissions:		to tons/year		
6. Emissions Factor : Reference : current permit limit				
7. Emissions Method Code : 0				
8. Calculations of Emissions : See Appendix A of Volume 1				
9. Pollutant Potential/Estimated Emissions Comment :				

Emissions Unit Information Section
Municipal Waste Combustion Unit #2

2

Pollutant Information Section

9

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	1.50	lb/hr	
4. Equivalent Allowable Emissions :	1.50	lb/hour	6.57 tons/year
5. Method of Compliance :			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Emission limit is based on current permit limits (AO 29-206279).		

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

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 10

1. Pollutant Emitted : DIOX		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :		
lb/hour		tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions:		
		to tons/year
6. Emissions Factor : Reference : 40 CFR 60 Subpart Cb		
7. Emissions Method Code : 0		
8. Calculations of Emissions : See Appendix B of Volume 1.		
9. Pollutant Potential/Estimated Emissions Comment :		
Item No. 3 above: Potential emissions: 3.07 x 10-6 lb/hour 1.34 x 10-5 tons/year (ELSA does not permit entry of this many digits in this line.)		

Emissions Unit Information Section
Municipal Waste Combustion Unit #2

2

Pollutant Information Section

10

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	30.00 ng/dscm @ 7% O2
4. Equivalent Allowable Emissions :	lb/hour tons/year
5. Method of Compliance :	Method 23
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	<p>The allowable emissions limit is based on the Emissions Guidelines for large MWCs.</p> <p>Item No. 4., above: Equivalent Allowable Emissions: 3.07 x 10⁻⁶ lb/hour · 1.34 x 10⁻⁵ tons/year (ELSA does not permit this many digits in this line.) (ELSA does not allow entry of this many digits in that line.)</p>

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

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 11

1. Pollutant Emitted : PB				
2. Total Percent Efficiency of Control :		%		
3. Potential Emissions :				
	0.05	lb/hour	0.20	tons/year
4. Synthetically Limited?				
[] Yes [X] No				
5. Range of Estimated Fugitive/Other Emissions:				
			to	tons/year
6. Emissions Factor :				
Reference : Emissions Guidelines				
7. Emissions Method Code : 0				
8. Calculations of Emissions :				
See Appendix B of Volume 1.				
9. Pollutant Potential/Estimated Emissions Comment :				

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Pollutant Information Section 11

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	440.00	ug/dscm @ 7% O2	
4. Equivalent Allowable Emissions :	0.05	lb/hour	0.20 tons/year
5. Method of Compliance :	Method 29		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The emission limit requested is based on the Emissions Guidelines for large MWCs.		

Emissions Unit Information Section
Municipal Waste Combustion Unit #2

2

Pollutant Information Section

12

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	0.01	gr/dscf @ 7% O2	
4. Equivalent Allowable Emissions :	2.81	lb/hour	12.31 tons/year
5. Method of Compliance :	Method 5		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The requested allowable limit is 0.12 gr/dscf @7% O2. This number does not fit in field # 3 above.		

III. Part 9c - 18

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	15
2. Basis for Allowable Opacity :	OTHER
3. Requested Allowable Opacity :	Normal Conditions : 10 % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :	Method 9 and Continuous Opacity Monitor
5. Visible Emissions Comment :	The opacity limit is based on Emissions Guidelines for large MWC units.

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code : VE	2. Pollutant :
3. CMS Requirement : RULE	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Information above to be provided. Two monitors to be required for % control calculations.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2

Municipal Waste Combustion Unit #2

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code : EM	2. Pollutant : CO
3. CMS Requirement : RULE	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Information above to be provided.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Continuous Monitoring System : Continuous Monitor 3

1. Parameter Code : EM	2. Pollutant : NOX
3. CMS Requirement :	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Information above to be provided.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
Municipal Waste Combustion Unit #2

Continuous Monitoring System : Continuous Monitor 4

1. Parameter Code : EM	2. Pollutant : SO2
3. CMS Requirement :	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Information above to be provided.	

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

Emissions Unit Information Section 2

Municipal Waste Combustion Unit #2

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

-] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
-] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
-] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
-] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
-] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

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2. Increment Consuming for Nitrogen Dioxide?

- The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :					
PM :	C	SO2 :	C	NO2 :	E
4. Baseline Emissions :					
PM :	0.0000	lb/hour		0.0000	tons/year
SO2 :	0.0000	lb/hour		0.0000	tons/year
NO2 :				189.7000	tons/year
5. PSD Comment :					

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L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 2

Municipal Waste Combustion Unit #2

Supplemental Requirements for All Applications

1. Process Flow Diagram :	App. A, Fig. 3
2. Fuel Analysis or Specification :	Vol. 1, Sect. 6
3. Detailed Description of Control Equipment :	To be provided.
4. Description of Stack Sampling Facilities :	To be provided.
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statute :	NA

Additional Supplemental Requirements for Category I Applications Only

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

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

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 3

Municipal Waste Combustion Unit #3

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

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

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

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

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

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

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

III. Part 1 - 3

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

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Municipal Waste Combustion Unit #3		
2. Emissions Unit Identification Number : 103 [] No Corresponding ID [] Unknown		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? [] Yes [X] No	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment : This combustion unit will have a dedicated flue in a single four-flue stack.		

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Emissions Unit Control Equipment 1

1. Description :
Fabric Filter
2. Control Device or Method Code : 16

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Emissions Unit Control Equipment 2

1. Description :	
Spray Dryer Absorber	
2. Control Device or Method Code :	41

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Emissions Unit Control Equipment 3

1. Description :
Selective Non-Catalytic Reduction System
2. Control Device or Method Code : 107

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Emissions Unit Control Equipment 4

1. Description :	
Activated Carbon Injection	
2. Control Device or Method Code :	48

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

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Emissions Unit Details

1. Initial Startup Date :	22-Jan-2001		
2. Long-term Reserve Shutdown Date :			
3. Package Unit :			
Manufacturer :	To be provided once a vendor is selected	Model Number :	To be provided
4. Generator Nameplate Rating :	MW		
5. Incinerator Information :			
Dwell Temperature :		Degrees Fahrenheit	
Dwell Time :		Seconds	
Incinerator Afterburner Temperature :		Degrees Fahrenheit	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	120	mmBtu/hr		
2. Maximum Incinerator Rate :	23958.33	lb/hr	287.50	tons/day
3. Maximum Process or Throughput Rate :				
4. Maximum Production Rate :	23858	lbs/hour steam		
5. Operating Capacity Comment :	See operating window in Section 6 of Volume 1.			

Emissions Unit Operating Schedule

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

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Emissions Unit Information Section

3

Municipal Waste Combustion Unit #3

Rule Applicability Analysis

Refer to Volume 1, Section 2

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Emissions Unit Information Section
Municipal Waste Combustion Unit #3

3

List of Applicable Regulations

Refer to Volume 1, Section 2

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E. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 3

Municipal Waste Combustion Unit #3

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	See Vol. 1 Fig 6-4		
2. Emission Point Type Code :	2		
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking : (limit to 100 characters per point) Not Applicable for sources with single emission points			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	Emission units 1-4 will have a dedicted flue within a common stack.		
5. Discharge Type Code :	V		
6. Stack Height :	201	feet	
7. Exit Diameter :	4.2	feet	
8. Exit Temperature :	289	°F	
9. Actual Volumetric Flow Rate :	60894	acfm	
10. Percent Water Vapor :	14.77	%	
11. Maximum Dry Standard Flow Rate :	36686	dscfm	
12. Nonstack Emission Point Height :	feet		
13. Emission Point UTM Coordinates :			
Zone : 17	East (km) : 360.196	North (km) :	3092.208
14. Emission Point Comment :			

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F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 3

Municipal Waste Combustion Unit #3

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : The new municipal waste combustion units will have either a refractory, rotary waterwall, or a stoker waterwall furnace.	
2. Source Classification Code (SCC) : 5-01-999-99	
3. SCC Units : Tons Burned (all solid fuels)	
4. Maximum Hourly Rate : 11.98	5. Maximum Annual Rate : 104,937.50
6. Estimated Annual Activity Factor : 100.00	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 10	
10. Segment Comment :	

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

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - SO2	041	016	EL
2 - NOX	107		EL
3 - CO			EL
4 - VOC			EL
5 - H114	048	016	EL
6 - H027	016		EL
7 - H021	016		EL
8 - HCL	041	016	EL
9 - H107	041	016	EL
10 - DIOX	041	016	EL
11 - PB	016		EL

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

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
12 - PM	016		EL

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

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : SO2			
2. Total Percent Efficiency of Control :	75.00	%	
3. Potential Emissions :	40.85	lb/hour	178.95 tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Range of Estimated Fugitive/Other Emissions: <div style="text-align: right; margin-right: 100px;">to</div> <div style="text-align: right;">tons/year</div>			
6. Emissions Factor : Reference : Emissions Guidelines			
7. Emissions Method Code : 0			
8. Calculations of Emissions : See Volume 1, Appendix B			
9. Pollutant Potential/Estimated Emissions Comment : The Emission Guidelines specifies a 75% removal or a concentration of 29 ppmdv @ 7% O2, whichever is less stringent. Based on a 600 ppmdv maximum inlet, the percent removal basis is less stringent.			

Emissions Unit Information Section
Municipal Waste Combustion Unit #3

3

Pollutant Information Section

1

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	75.00	percent removal	
4. Equivalent Allowable Emissions :	40.87	lb/hour	179.00 tons/year
5. Method of Compliance :	Continuous Emission Monitors		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Allowable emission is based on a 75% removal of 600 ppmdv inlet @ 7% O2.		

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

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted : NOX			
2. Total Percent Efficiency of Control :		%	
3. Potential Emissions :	40.10	lb/hour	175.65 tons/year
4. Synthetically Limited? [] Yes [X] No			
5. Range of Estimated Fugitive/Other Emissions:		to	tons/year
6. Emissions Factor : Reference : Emissions Guidelines			
7. Emissions Method Code : 0			
8. Calculations of Emissions : See Appendix B of Volume 1			
9. Pollutant Potential/Estimated Emissions Comment : Emissions Guidelines for large MWCs			

Emissions Unit Information Section
Municipal Waste Combustion Unit #3

3

Pollutant Information Section

2

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	205.00	ppmdv @ 7% O2	
4. Equivalent Allowable Emissions :	40.11	lb/hour	175.69 tons/year
5. Method of Compliance :	Continuous Emissions Monitor		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Allowable emissions request is based on the Emissions Guidelines for MWCs.		

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Emissions Unit Information Section
Municipal Waste Combustion Unit #3

3

Pollutant Information Section

3

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	100.00	ppmdv @ 7% O2	
4. Equivalent Allowable Emissions :	11.91	lb/hour	52.18 tons/year
5. Method of Compliance :	Continuous Emission Monitor		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The allowable emissions is based on the Emissions Guidelines for MWCs.		

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

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Pollutant Potential/Estimated Emissions : Pollutant 4

1. Pollutant Emitted : VOC				
2. Total Percent Efficiency of Control :		%		
3. Potential Emissions :		2.25	lb/hour	9.86 tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
5. Range of Estimated Fugitive/Other Emissions: <div style="text-align: right; margin-right: 100px;">to</div> <div style="text-align: right;">tons/year</div>				
6. Emissions Factor : Reference : current permit limit				
7. Emissions Method Code : 0				
8. Calculations of Emissions : See Appendix B of Volume 1.				
9. Pollutant Potential/Estimated Emissions Comment :				

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Pollutant Information Section 4

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	
4. Equivalent Allowable Emissions :	2.25 lb/hour 9.86 tons/year
5. Method of Compliance :	Methods 18A or 25A
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Requested emission limit is based on the existing permit limit (AO 29-206279).

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

Emissions Unit Information Section 3

Municipal Waste Combustion Unit #3

Pollutant Potential/Estimated Emissions : Pollutant 5

1. Pollutant Emitted : H114		
2. Total Percent Efficiency of Control :	85.00	%
3. Potential Emissions :	lb/hour	tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions:	to	tons/year
6. Emissions Factor : Reference : Emissions Guidelines		
7. Emissions Method Code :		
8. Calculations of Emissions : See Appendix B of Volume 1		
9. Pollutant Potential/Estimated Emissions Comment :		
<p>The combination of the State Mercury Rule and the Emissions Guidelines specify a 85% removal or a concentration of 70 ug/dscm, whichever is less stringent. Based on a 900 ug/dscm @ 7% O2 maximum inlet, the percent removal basis is less stringent.</p> <p>Item No. 3, above: Potential Emissions: 0.014 lb/hour 0.061 tons/year (ELSA does not permit enough digits in this line.)</p>		

Emissions Unit Information Section
Municipal Waste Combustion Unit #3

3

Pollutant Information Section

5

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	85.00 percent removal
4. Equivalent Allowable Emissions :	lb/hour tons/year
5. Method of Compliance :	Method 29
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Allowable emission limit is based on the Emissions Guidelines for MWC, and 85% removal of a maximum inlet concentration of 900 ug/dscm @ 7% O2. Item No. 4, above: Equivalent Allowable Emissions: 0.0014 lb/hour 0.061 tons/year (ELSA does not allow enough digits in this line.)

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

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Pollutant Potential/Estimated Emissions : Pollutant 6

1. Pollutant Emitted : H027		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :	lb/hour	tons/year
4. Synthetically Limited? [] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions:	to	tons/year
6. Emissions Factor :	Reference : Emissions Guidelines	
7. Emissions Method Code :	0	
8. Calculations of Emissions : See Appendix B, Volume 1.		
9. Pollutant Potential/Estimated Emissions Comment : Item No. 3, above: Potential Emissions: 0.00409 lb/hour 0.018 tons/year (ELSA does not allow enough digits in this line.)		

Emissions Unit Information Section
Municipal Waste Combustion Unit #3

3

Pollutant Information Section

6

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE	
2. Future Effective Date of Allowable Emissions :		
3. Requested Allowable Emissions and Units :	40.00	ug/dscm @ 7% O2
4. Equivalent Allowable Emissions :	lb/hour	tons/year
5. Method of Compliance :	Method 29	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The allowable emission limit is based on the Emissions Guidelines for large MWCs. Item No. 4, above: Equivalent Allowable Emissions: 0.00409 lb/hour 0.018 tons/year (ELSA does not allow enough digits in this line.)	

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

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Pollutant Potential/Estimated Emissions : Pollutant 7

1. Pollutant Emitted : H021		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :	lb/hour	tons/year
4. Synthetically Limited? [] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions:	to	tons/year
6. Emissions Factor : Reference : Current permit limit		
7. Emissions Method Code : 0		
8. Calculations of Emissions : See Appendix B, Volume 1.		
9. Pollutant Potential/Estimated Emissions Comment : Item No. 3, above: Potential Emissions: 0.000115 lb/hour 0.000504 tons/year (ELSA does not allow enough digits in this line.)		

Emissions Unit Information Section
Municipal Waste Combustion Unit #3

3

Pollutant Information Section

7

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	OTHER	
2. Future Effective Date of Allowable Emissions :		
3. Requested Allowable Emissions and Units :	1.15	10-4 lb/hour
4. Equivalent Allowable Emissions :	lb/hour	tons/year
5. Method of Compliance :	Method 29	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The allowable emission limit requested is based on the existing permit limit (AO 29-206279). Item No. 4, above: Equivalent Allowable Emissions: 0.000115 lb/hour 0.000504 tons/year (ELSA does not allow enough digits in this line.)	

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

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Pollutant Potential/Estimated Emissions : Pollutant 8

1. Pollutant Emitted : HCL			
2. Total Percent Efficiency of Control :	95.00	%	
3. Potential Emissions :	15.51	lb/hour	67.92 tons/year
4. Synthetically Limited? [] Yes [X] No			
5. Range of Estimated Fugitive/Other Emissions:		to	tons/year
6. Emissions Factor : Reference : Emissions Guidelines			
7. Emissions Method Code : 0			
8. Calculations of Emissions : See Appendix B of Volume 1.			
9. Pollutant Potential/Estimated Emissions Comment : The Emissions Guidelines specify a 95% removal or a concentration of 29 ppmdv @ 7% O ₂ , whichever is less. Based on a 2000 ppmdv maximum inlet @ 7% O ₂ , the percent removal basis is less stringent.			

Emissions Unit Information Section
Municipal Waste Combustion Unit #3

3

Pollutant Information Section

8

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	95.00 percent removal
4. Equivalent Allowable Emissions :	15.51 lb/hour 67.92 tons/year
5. Method of Compliance :	Methods 26 and 26A
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The emission limit requested is based on a 95% removal of a 2000 ppmdv inlet @ 7% O ₂ .

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

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Pollutant Potential/Estimated Emissions : Pollutant 9

1. Pollutant Emitted : H107				
2. Total Percent Efficiency of Control :		%		
3. Potential Emissions :	1.50	lb/hour	6.57	tons/year
4. Synthetically Limited? [] Yes [X] No				
5. Range of Estimated Fugitive/Other Emissions:		to tons/year		
6. Emissions Factor : Reference : current permit limit				
7. Emissions Method Code : 0				
8. Calculations of Emissions : See Appendix A of Volume 1				
9. Pollutant Potential/Estimated Emissions Comment :				

Emissions Unit Information Section
Municipal Waste Combustion Unit #3

3

Pollutant Information Section

9

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	1.50	lb/hr	
4. Equivalent Allowable Emissions :	1.50	lb/hour	6.57 tons/year
5. Method of Compliance :			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Emission limit is based on current permit limits (AO 29-206279).		

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

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Pollutant Potential/Estimated Emissions : Pollutant 10

1. Pollutant Emitted : DIOX		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :	lb/hour	tons/year
4. Synthetically Limited? [] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions:	to	tons/year
6. Emissions Factor : Reference : 40 CFR 60 Subpart Cb		
7. Emissions Method Code : 0		
8. Calculations of Emissions : See Appendix B of Volume 1.		
9. Pollutant Potential/Estimated Emissions Comment : Item No. 3 above: Potential emissions: 3.07 x 10 ⁻⁶ lb/hour 1.34 x 10 ⁻⁵ tons/year (ELSA does not permit entry of this many digits in this line.)		

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Pollutant Information Section 10

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	30.00 ng/dscm @ 7% O2
4. Equivalent Allowable Emissions :	lb/hour tons/year
5. Method of Compliance :	Method 23
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	<p>The allowable emissions limit is based on the Emissions Guidelines for large MWCs.</p> <p>Item No. 4., above: Equivalent Allowable Emissions: 3.07 x 10⁻⁶ lb/hour 1.34 x 10⁻⁵ tons/year (ELSA does not permit this many digits in this line.) (ELSA does not allow entry of this many digits in that line.)</p>

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

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Pollutant Potential/Estimated Emissions : Pollutant 11

1. Pollutant Emitted : PB				
2. Total Percent Efficiency of Control :		%		
3. Potential Emissions :		0.05	lb/hour	0.20 tons/year
4. Synthetically Limited? [] Yes [X] No				
5. Range of Estimated Fugitive/Other Emissions:				to tons/year
6. Emissions Factor : Reference : Emissions Guidelines				
7. Emissions Method Code : 0				
8. Calculations of Emissions : See Appendix B of Volume 1.				
9. Pollutant Potential/Estimated Emissions Comment :				

Emissions Unit Information Section
Municipal Waste Combustion Unit #3

3

Pollutant Information Section

11

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	440.00	ug/dscm @ 7% O2	
4. Equivalent Allowable Emissions :	0.05	lb/hour	0.20 tons/year
5. Method of Compliance :	Method 29		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The emission limit requested is based on the Emissions Guidelines for large MWCs.		

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Emissions Unit Information Section
Municipal Waste Combustion Unit #3

3

Pollutant Information Section

12

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	0.01	gr/dscf @ 7% O2	
4. Equivalent Allowable Emissions :	2.81	lb/hour	12.31 tons/year
5. Method of Compliance :	Method 5		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The requested allowable limit is 0.12 gr/dscf @7% O2. This number does not fit in field # 3 above.		

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I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	15
2. Basis for Allowable Opacity :	OTHER
3. Requested Allowable Opacity :	Normal Conditions : 10 % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :	Method 9 and Continuous Opacity Monitor
5. Visible Emissions Comment :	The opacity limit is based on Emissions Guidelines for large MWC units.

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code : VE	2. Pollutant :
3. CMS Requirement : RULE	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Information above to be provided. Two monitors to be required for % control calculations.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code : EM	2. Pollutant : CO
3. CMS Requirement : RULE	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Information above to be provided.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Continuous Monitoring System : Continuous Monitor 3

1. Parameter Code : EM	2. Pollutant : NOX
3. CMS Requirement :	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Information above to be provided.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 3
Municipal Waste Combustion Unit #3

Continuous Monitoring System : Continuous Monitor 4

1. Parameter Code : EM	2. Pollutant : SO2
3. CMS Requirement :	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Information above to be provided.	

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

Emissions Unit Information Section 3

Municipal Waste Combustion Unit #3

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- [] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- [] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- [X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

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2. Increment Consuming for Nitrogen Dioxide?

- [X] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- [] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :		
PM : C	SO2 : C	NO2 : E
4. Baseline Emissions :		
PM :	0.0000 lb/hour	0.0000 tons/year
SO2 :	0.0000 lb/hour	0.0000 tons/year
NO2 :		189.7000 tons/year
5. PSD Comment :		

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L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 3

Municipal Waste Combustion Unit #3

Supplemental Requirements for All Applications

1. Process Flow Diagram :	App. A, Fig. 3
2. Fuel Analysis or Specification :	Vol. 1, Sect. 6
3. Detailed Description of Control Equipment :	To be provided.
4. Description of Stack Sampling Facilities :	To be provided.
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statute :	NA

Additional Supplemental Requirements for Category I Applications Only

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

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

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 4

Municipal Waste Combustion Unit #4

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

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

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

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

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

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Municipal Waste Combustion Unit #4		
2. Emissions Unit Identification Number : 104 <input type="checkbox"/> No Corresponding ID <input type="checkbox"/> Unknown		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment : This combustion unit will have a dedicated flue in a single four-flue stack.		

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Emissions Unit Control Equipment 1

1. Description :
Fabric Filter
2. Control Device or Method Code : 16

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Emissions Unit Control Equipment 2

1. Description :	
Spray Dryer Absorber	
2. Control Device or Method Code :	41

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Emissions Unit Control Equipment 3

1. Description :
Selective Non-Catalytic Reduction System
2. Control Device or Method Code : 107

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Emissions Unit Control Equipment 4

1. Description :	
Activated Carbon Injection	
2. Control Device or Method Code :	48

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Rule Applicability Analysis

Refer to Volume 1, Section 2

Emissions Unit Information Section
Municipal Waste Combustion Unit #4

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List of Applicable Regulations

Refer to Volume 1, Section 2

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E. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 4

Municipal Waste Combustion Unit #4

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	See Vol. 1 Fig 6-4		
2. Emission Point Type Code :	2		
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking : (limit to 100 characters per point) Not Applicable for sources with single emission points			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	Emission units 1-4 will have a dedicted flue within a common stack.		
5. Discharge Type Code :	V		
6. Stack Height :	201	feet	
7. Exit Diameter :	4.2	feet	
8. Exit Temperature :	289	°F	
9. Actual Volumetric Flow Rate :	60894	acfm	
10. Percent Water Vapor :	14.77	%	
11. Maximum Dry Standard Flow Rate :	36686	dscfm	
12. Nonstack Emission Point Height :	feet		
13. Emission Point UTM Coordinates :			
Zone : 17	East (km) : 360.196	North (km) :	3092.208
14. Emission Point Comment :			

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F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 4

Municipal Waste Combustion Unit #4

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :	
The new municipal waste combustion units will have either a refractory, rotary waterwall, or a stoker waterwall furnace.	
2. Source Classification Code (SCC) : 5-01-999-99	
3. SCC Units : Tons Burned (all solid fuels)	
4. Maximum Hourly Rate : 11.98	5. Maximum Annual Rate : 104,937.50
6. Estimated Annual Activity Factor : 100.00	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 10	
10. Segment Comment :	

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

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - SO2	041	016	EL
2 - NOX	107		EL
3 - CO			EL
4 - VOC			EL
5 - H114	048	016	EL
6 - H027	016		EL
7 - H021	016		EL
8 - HCL	041	016	EL
9 - H107	041	016	EL
10 - DIOX	041	016	EL
11 - PB	016		EL

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

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
12 - PM	016		EL

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

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : SO2			
2. Total Percent Efficiency of Control :	75.00	%	
3. Potential Emissions :	40.85	lb/hour	178.95 tons/year
4. Synthetically Limited? [] Yes [X] No			
5. Range of Estimated Fugitive/Other Emissions:		to	tons/year
6. Emissions Factor : Reference : Emissions Guidelines			
7. Emissions Method Code : 0			
8. Calculations of Emissions : See Volume 1, Appendix B			
9. Pollutant Potential/Estimated Emissions Comment : The Emission Guidelines specifies a 75% removal or a concentration of 29 ppmdv @ 7% O2, whichever is less stringent. Based on a 600 ppmdv maximum inlet, the percent removal basis is less stringent.			

Emissions Unit Information Section
Municipal Waste Combustion Unit #4

4

Pollutant Information Section

1

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	75.00 percent removal
4. Equivalent Allowable Emissions :	40.87 lb/hour 179.00 tons/year
5. Method of Compliance :	Continuous Emission Monitors
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Allowable emission is based on a 75% removal of 600 ppmdv inlet @ 7% O2.

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Emissions Unit Information Section
Municipal Waste Combustion Unit #4

4

Pollutant Information Section

2

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	205.00 ppmdv @ 7% O2
4. Equivalent Allowable Emissions :	40.11 lb/hour 175.69 tons/year
5. Method of Compliance :	Continuous Emissions Monitor
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Allowable emissions request is based on the Emissions Guidelines for MWCs.

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

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Pollutant Potential/Estimated Emissions : Pollutant 3

1. Pollutant Emitted : CO				
2. Total Percent Efficiency of Control :		%		
3. Potential Emissions :	11.91	lb/hour	52.18	tons/year
4. Synthetically Limited? [] Yes [X] No				
5. Range of Estimated Fugitive/Other Emissions:		to tons/year		
6. Emissions Factor : Reference : Emissions Guidelines				
7. Emissions Method Code : 0				
8. Calculations of Emissions : See Appendix B of Volume 1				
9. Pollutant Potential/Estimated Emissions Comment : Based on Emissions Guidelines for large MWCs.				

Emissions Unit Information Section
Municipal Waste Combustion Unit #4

4

Pollutant Information Section

3

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	100.00	ppmdv @ 7% O2	
4. Equivalent Allowable Emissions :	11.91	lb/hour	52.18 tons/year
5. Method of Compliance :	Continuous Emission Monitor		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The allowable emissions is based on the Emissions Guidelines for MWCs.		

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

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Pollutant Potential/Estimated Emissions : Pollutant 4

1. Pollutant Emitted : VOC				
2. Total Percent Efficiency of Control :		%		
3. Potential Emissions :		2.25	lb/hour	9.86 tons/year
4. Synthetically Limited? [] Yes [X] No				
5. Range of Estimated Fugitive/Other Emissions:		to tons/year		
6. Emissions Factor : Reference : current permit limit				
7. Emissions Method Code : 0				
8. Calculations of Emissions : See Appendix B of Volume 1.				
9. Pollutant Potential/Estimated Emissions Comment :				

Emissions Unit Information Section
Municipal Waste Combustion Unit #4

4

Pollutant Information Section

4

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	OTHER			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :				
4. Equivalent Allowable Emissions :	2.25	lb/hour	9.86	tons/year
5. Method of Compliance :	Methods 18A or 25A			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Requested emission limit is based on the existing permit limit (AO 29-206279).			

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

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Pollutant Potential/Estimated Emissions : Pollutant 5

1. Pollutant Emitted : H114		
2. Total Percent Efficiency of Control :	85.00	%
3. Potential Emissions :	lb/hour	tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions: <div style="text-align: right; margin-right: 100px;">to</div> <div style="text-align: right;">tons/year</div>		
6. Emissions Factor : Reference : Emissions Guidelines		
7. Emissions Method Code :		
8. Calculations of Emissions : See Appendix B of Volume 1		
9. Pollutant Potential/Estimated Emissions Comment : The combination of the State Mercury Rule and the Emissions Guidelines specify a 85% removal or a concentration of 70 ug/dscm, whichever is less stringent. Based on a 900 ug/dscm @ 7% O2 maximum inlet, the percent removal basis is less stringent. Item No. 3, above: Potential Emissions: 0.014 lb/hour 0.061 tons/year (ELSA does not permit enough digits in this line.)		

Emissions Unit Information Section
Municipal Waste Combustion Unit #4

4

Pollutant Information Section

5

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	85.00 percent removal
4. Equivalent Allowable Emissions :	lb/hour tons/year
5. Method of Compliance :	Method 29
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Allowable emission limit is based on the Emissions Guidelines for MWC, and 85% removal of a maximum inlet concentration of 900 ug/dscm @ 7% O2. Item No. 4, above: Equivalent Allowable Emissions: 0.0014 lb/hour 0.061 tons/year (ELSA does not allow enough digits in this line.)

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

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Pollutant Potential/Estimated Emissions : Pollutant 6

1. Pollutant Emitted : H027		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :		
lb/hour		tons/year
4. Synthetically Limited? [] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions:		
	to	tons/year
6. Emissions Factor : Reference : Emissions Guidelines		
7. Emissions Method Code : 0		
8. Calculations of Emissions : See Appendix B, Volume 1.		
9. Pollutant Potential/Estimated Emissions Comment : Item No. 3, above: Potential Emissions: 0.00409 lb/hour 0.018 tons/year (ELSA does not allow enough digits in this line.)		

Emissions Unit Information Section
Municipal Waste Combustion Unit #4

4

Pollutant Information Section

6

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	40.00 ug/dscm @ 7% O2
4. Equivalent Allowable Emissions :	lb/hour tons/year
5. Method of Compliance :	Method 29
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The allowable emission limit is based on the Emissions Guidelines for large MWCs. Item No. 4, above: Equivalent Allowable Emissions: 0.00409 lb/hour 0.018 tons/year (ELSA does not allow enough digits in this line.)

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

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Pollutant Potential/Estimated Emissions : Pollutant 7

1. Pollutant Emitted : H021		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :		lb/hour tons/year
4. Synthetically Limited? [] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions:		to tons/year
6. Emissions Factor : Reference : Current permit limit		
7. Emissions Method Code : 0		
8. Calculations of Emissions : See Appendix B, Volume 1.		
9. Pollutant Potential/Estimated Emissions Comment : Item No. 3, above: Potential Emissions: 0.000115 lb/hour 0.000504 tons/year (ELSA does not allow enough digits in this line.)		

Emissions Unit Information Section
Municipal Waste Combustion Unit #4

4

Pollutant Information Section

7

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	OTHER
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	1.15 10-4 lb/hour
4. Equivalent Allowable Emissions :	
	lb/hour tons/year
5. Method of Compliance :	
Method 29	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	
	The allowable emission limit requested is based on the existing permit limit (AO 29-206279).
	Item No. 4, above: Equivalent Allowable Emissions: 0.000115 lb/hour 0.000504 tons/year (ELSA does not allow enough digits in this line.)

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

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Pollutant Potential/Estimated Emissions : Pollutant 8

1. Pollutant Emitted : HCL			
2. Total Percent Efficiency of Control :	95.00	%	
3. Potential Emissions :	15.51	lb/hour	67.92 tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Range of Estimated Fugitive/Other Emissions: <div style="text-align: right;">to tons/year</div>			
6. Emissions Factor : Reference : Emissions Guidelines			
7. Emissions Method Code : 0			
8. Calculations of Emissions : See Appendix B of Volume 1.			
9. Pollutant Potential/Estimated Emissions Comment : The Emissions Guidelines specify a 95% removal or a concentration of 29 ppmdv @ 7% O ₂ , whichever is less. Based on a 2000 ppmdv maximum inlet @ 7% O ₂ , the percent removal basis is less stringent.			

Emissions Unit Information Section
Municipal Waste Combustion Unit #4

4

Pollutant Information Section

8

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	95.00	percent removal	
4. Equivalent Allowable Emissions :	15.51	lb/hour	67.92 tons/year
5. Method of Compliance :	Methods 26 and 26A		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The emission limit requested is based on a 95% removal of a 2000 ppmdv inlet @ 7% O2.		

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

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Pollutant Potential/Estimated Emissions : Pollutant 9

1. Pollutant Emitted : H107				
2. Total Percent Efficiency of Control :		%		
3. Potential Emissions :				
	1.50	lb/hour	6.57	tons/year
4. Synthetically Limited? [] Yes [X] No				
5. Range of Estimated Fugitive/Other Emissions:				
		to		tons/year
6. Emissions Factor :				
Reference : current permit limit				
7. Emissions Method Code : 0				
8. Calculations of Emissions :				
See Appendix A of Volume 1				
9. Pollutant Potential/Estimated Emissions Comment :				

Emissions Unit Information Section
Municipal Waste Combustion Unit #4

4

Pollutant Information Section

9

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	1.50	lb/hr	
4. Equivalent Allowable Emissions :	1.50	lb/hour	6.57 tons/year
5. Method of Compliance :			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Emission limit is based on current permit limits (AO 29-206279).		

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

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Pollutant Potential/Estimated Emissions : Pollutant 10

1. Pollutant Emitted : DIOX	
2. Total Percent Efficiency of Control :	%
3. Potential Emissions :	lb/hour tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive/Other Emissions:	to tons/year
6. Emissions Factor : Reference : 40 CFR 60 Subpart Cb	
7. Emissions Method Code : 0	
8. Calculations of Emissions : See Appendix B of Volume 1.	
9. Pollutant Potential/Estimated Emissions Comment : Item No. 3 above: Potential emissions: 3.07 x 10 ⁻⁶ lb/hour 1.34 x 10 ⁻⁵ tons/year (ELSA does not permit entry of this many digits in this line.)	

Emissions Unit Information Section
Municipal Waste Combustion Unit #4

4

Pollutant Information Section 10

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	30.00 ng/dscm @ 7% O2
4. Equivalent Allowable Emissions :	lb/hour tons/year
5. Method of Compliance :	Method 23
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The allowable emissions limit is based on the Emissions Guidelines for large MWCs. Item No. 4., above: Equivalent Allowable Emissions: 3.07 x 10 ⁻⁶ lb/hour 1.34 x 10 ⁻⁵ tons/year (ELSA does not permit this many digits in this line.) (ELSA does not allow entry of this many digits in that line.)

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

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Pollutant Potential/Estimated Emissions : Pollutant 11

1. Pollutant Emitted : PB			
2. Total Percent Efficiency of Control :		%	
3. Potential Emissions :			
0.05	lb/hour	0.20	tons/year
4. Synthetically Limited?			
[] Yes		[X] No	
5. Range of Estimated Fugitive/Other Emissions:			
		to	tons/year
6. Emissions Factor :			
Reference :		Emissions Guidelines	
7. Emissions Method Code : 0			
8. Calculations of Emissions :			
See Appendix B of Volume 1.			
9. Pollutant Potential/Estimated Emissions Comment :			

Emissions Unit Information Section
Municipal Waste Combustion Unit #4

4

Pollutant Information Section

11

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	440.00	ug/dscm @ 7% O2	
4. Equivalent Allowable Emissions :	0.05	lb/hour	0.20 tons/year
5. Method of Compliance :	Method 29		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The emission limit requested is based on the Emissions Guidelines for large MWCs.		

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Emissions Unit Information Section
Municipal Waste Combustion Unit #4

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Pollutant Information Section

12

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	0.01	gr/dscf @ 7% O2	
4. Equivalent Allowable Emissions :	2.81	lb/hour	12.31 tons/year
5. Method of Compliance :	Method 5		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	The requested allowable limit is 0.12 gr/dscf @7% O2. This number does not fit in field # 3 above.		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	15
2. Basis for Allowable Opacity :	OTHER
3. Requested Allowable Opacity :	Normal Conditions : 10 % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :	Method 9 and Continuous Opacity Monitor
5. Visible Emissions Comment :	The opacity limit is based on Emissions Guidelines for large MWC units.

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code : VE	2. Pollutant :
3. CMS Requirement : RULE	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Information above to be provided. Two monitors to be required for % control calculations.	

**J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code : EM	2. Pollutant : CO
3. CMS Requirement : RULE	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Information above to be provided.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Continuous Monitoring System : Continuous Monitor 3

1. Parameter Code : EM	2. Pollutant : NOX
3. CMS Requirement :	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Information above to be provided.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 4
Municipal Waste Combustion Unit #4

Continuous Monitoring System : Continuous Monitor 4

1. Parameter Code : EM	2. Pollutant : SO2
3. CMS Requirement :	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Information above to be provided.	

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

Emissions Unit Information Section 4

Municipal Waste Combustion Unit #4

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

-] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
-] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
-] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
-] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
-] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

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2. Increment Consuming for Nitrogen Dioxide?

- [X] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- [] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :		
PM :	C	NO2 : E
SO2 :	C	
4. Baseline Emissions :		
PM :	0.0000 lb/hour	0.0000 tons/year
SO2 :	0.0000 lb/hour	0.0000 tons/year
NO2 :		189.7000 tons/year
5. PSD Comment :		

III. Part 12 - 17

III. Part 12 - 18

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L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 4

Municipal Waste Combustion Unit #4

Supplemental Requirements for All Applications

1. Process Flow Diagram :	App. A, Fig. 3
2. Fuel Analysis or Specification :	Vol. 1, Sect. 6
3. Detailed Description of Control Equipment :	To be provided.
4. Description of Stack Sampling Facilities :	To be provided.
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statute :	NA

Additional Supplemental Requirements for Category I Applications Only

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

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

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 5

Flyash Silo/Ash Handling System

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

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

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

- [] 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.

III. Part 1 - 5

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

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Flyash Silo/Ash Handling System		
2. Emissions Unit Identification Number : 105 [] No Corresponding ID [] Unknown		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? [] Yes [X] No	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment : Flyash silo is so named in permit. It is actually a cyclone with a fabric filter (see exhibit 10). Unit also includes ash conditioning system which is a source of fugitive emissions.		

Emissions Unit Information Section 5
Flyash Silo/Ash Handling System

Emissions Unit Control Equipment 1

1. Description :	
Cyclone	
2. Control Device or Method Code :	75

Emissions Unit Information Section 5
Flyash Silo/Ash Handling System

Emissions Unit Control Equipment 2

1. Description :	
Water	
2. Control Device or Method Code :	61

Emissions Unit Information Section 5
Flyash Silo/Ash Handling System

Emissions Unit Control Equipment 3

1. Description :	
Building for containment	
2. Control Device or Method Code :	54

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

Emissions Unit Information Section 5
Flyash Silo/Ash Handling System

Emissions Unit Details

1. Initial Startup Date :	09-Feb-2000	
2. Long-term Reserve Shutdown Date :		
3. Package Unit :		
Manufacturer : To be provided.	Model Number :	
4. Generator Nameplate Rating :	MW	
5. Incinerator Information :		
Dwell Temperature :	Degrees Fahrenheit	
Dwell Time :	Seconds	
Incinerator Afterburner Temperature :	Degrees Fahrenheit	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :	280	tons/day
4. Maximum Production Rate :		
5. Operating Capacity Comment :		

Emissions Unit Operating Schedule

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

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Emissions Unit Information Section 5
Flyash Silo/Ash Handling System

Rule Applicability Analysis

Refer to Volume 1, Section 2

III. Part 6a - 5

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Emissions Unit Information Section
Flyash Silo/Ash Handling System

5

List of Applicable Regulations

Refer to Volume 1, Section 2.

III. Part 6b - 5

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E. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section

5

Flyash Silo/Ash Handling System

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	See Vol. 1, Fig. 6-4
2. Emission Point Type Code :	3
3. Descriptions of Emission Points Comprising this Emissions Unit :	
fabric filter on roof vent and enclosed conveyors	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	
Existing ash handling facilities to be enclosed as part of the Facility retrofit and upgrade.	
5. Discharge Type Code :	V
6. Stack Height :	50 feet
7. Exit Diameter :	1.30 feet
8. Exit Temperature :	120 °F
9. Actual Volumetric Flow Rate :	acfm
10. Percent Water Vapor :	5.00 %
11. Maximum Dry Standard Flow Rate :	dscfm
12. Nonstack Emission Point Height :	feet
13. Emission Point UTM Coordinates :	
Zone :	East (km) : North (km) :
14. Emission Point Comment :	
A preliminary flow rate for the ash handling system is 25,000 cfm. Final numbers will be provided at a later date.	

III. Part 7b - 1

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F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 5

Flyash Silo/Ash Handling System

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Handling of wet combined fly and bottom ash.	
2. Source Classification Code (SCC) : 3-05-101-99	
3. SCC Units : Tons Transferred Or Handled	
4. Maximum Hourly Rate :	5. Maximum Annual Rate : 280.00
6. Estimated Annual Activity Factor : 100.00	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment :	

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

Emissions Unit Information Section 5
Flyash Silo/Ash Handling System

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - PM	018		EL
2 - PM	054	061	NS

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

Emissions Unit Information Section 5
Flyash Silo/Ash Handling System

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : PM		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :	lb/hour	tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions:	4	to tons/year
6. Emissions Factor : Reference :		
7. Emissions Method Code : 0		
8. Calculations of Emissions :		
9. Pollutant Potential/Estimated Emissions Comment :		
<p>Fugitive emissions combined with point source emissions are less than the 5 tpy reporting threshold. Visible emissions (5% opacity) will occur less than 5 percent of the time from ash transfer systems, except during periods of maintenance and repair, in accordance with the Emissions Guidelines.</p>		

Emissions Unit Information Section 5
Flyash Silo/Ash Handling System

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	
4. Equivalent Allowable Emissions :	lb/hour tons/year
5. Method of Compliance :	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	PM emissions are below the 5 tpy reporting threshold. Visible emissions (5% opacity) will occur less than 5 percent of the time from ash transfer systems, except during periods of maintenance and repair, in accordance with the Emissions Guidelines.

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

Emissions Unit Information Section 5
Flyash Silo/Ash Handling System

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted : PM		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :	lb/hour	tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions:	to	tons/year
6. Emissions Factor : Reference :		
7. Emissions Method Code :		
8. Calculations of Emissions :		
9. Pollutant Potential/Estimated Emissions Comment :		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 5
Flyash Silo/Ash Handling System

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	05
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	Normal Conditions : 5 % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : 3 min/hour
4. Method of Compliance :	Method 22
5. Visible Emissions Comment :	

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

Emissions Unit Information Section 5

Flyash Silo/Ash Handling System

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- [] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

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2. Increment Consuming for Nitrogen Dioxide?

-] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
-] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
-] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
-] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
-] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :			
PM :	C	SO2 :	NO2 :
4. Baseline Emissions :			
PM :	lb/hour		tons/year
SO2 :	lb/hour		tons/year
NO2 :			tons/year
5. PSD Comment :			

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 5

Flyash Silo/Ash Handling System

Supplemental Requirements for All Applications

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

Additional Supplemental Requirements for Category I Applications Only

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

III. Part 13 - 9

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

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 6

Lime Storage Silos

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

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

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

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

III. Part 1 - 6

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Emissions Unit Information Section 6
Lime Storage Silos

Emissions Unit Control Equipment 1

1. Description :

Fabric filter on silo exhaust vent designed for an outlet grain loading of 0.015 gr/dscf and an air flow rate of 1,200 scfm.

2. Control Device or Method Code : 18

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

Emissions Unit Information Section 6
Lime Storage Silos

Emissions Unit Details

1. Initial Startup Date :	09-Feb-2000	
2. Long-term Reserve Shutdown Date :		
3. Package Unit :		
Manufacturer : To be provided.	Model Number :	
4. Generator Nameplate Rating :	MW	
5. Incinerator Information :		
Dwell Temperature :	Degrees Fahrenheit	
Dwell Time :	Seconds	
Incinerator Afterburner Temperature :	Degrees Fahrenheit	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :		
4. Maximum Production Rate :		
5. Operating Capacity Comment :		

Emissions Unit Operating Schedule

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

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Emissions Unit Information Section 6
Lime Storage Silos

Rule Applicability Analysis

Refer to Volume 1, Section 2

List of Applicable Regulations

Refer to Volume 1, Section 2.

E. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 6

Lime Storage Silos

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	See Vol. 1 Fig. 6-4	
2. Emission Point Type Code :	1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking : (limit to 100 characters per point)		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	Two identical lime storage silos each with its own vent and fabric filter.	
5. Discharge Type Code :	P	
6. Stack Height :	feet	
7. Exit Diameter :	feet	
8. Exit Temperature :	°F	
9. Actual Volumetric Flow Rate :	1200 acfm	
10. Percent Water Vapor :	%	
11. Maximum Dry Standard Flow Rate :	dscfm	
12. Nonstack Emission Point Height :	feet	
13. Emission Point UTM Coordinates :		
Zone :	East (km) :	North (km) :
14. Emission Point Comment :	Information on emission height and precise location to be provided.	

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

Emissions Unit Information Section 6
Lime Storage Silos

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - PM	018		EL

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

Emissions Unit Information Section 6
Lime Storage Silos

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : PM		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :		lb/hour tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions:		to tons/year
6. Emissions Factor : Reference :		
7. Emissions Method Code : 3		
8. Calculations of Emissions :		
9. Pollutant Potential/Estimated Emissions Comment : PM emissions are below the 5 tpy reporting threshold.		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 6
Lime Storage Silos

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	05
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	Normal Conditions : 5 % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : 0 min/hour
4. Method of Compliance :	Method 9
5. Visible Emissions Comment :	The City of Tampa is requesting that compliance with the PM emission rate limitation be determined using Method 9 VE tests indicating no visible emissions in lieu of PM stack tests pursuant to FAC 62-296.711(3)(c) and 62-297.260(4).

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

Emissions Unit Information Section 6

Lime Storage Silos

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

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2. Increment Consuming for Nitrogen Dioxide?

- [] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- [] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :		
PM : C	SO2 :	NO2 :
4. Baseline Emissions :		
PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year
5. PSD Comment :		

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 6

Lime Storage Silos

Supplemental Requirements for All Applications

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

Additional Supplemental Requirements for Category I Applications Only

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

III. Part 13 - 11

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

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 7

Activated Carbon Storage Silo

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

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

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

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

III. Part 1 - 7

Emissions Unit Information Section 7
Activated Carbon Storage Silo

Emissions Unit Control Equipment 1

1. Description :
Fabric filter on silo exhaust vent designed for an outlet grain loading of 0.015 gr/dscf and an air flow rate of 1,200 scfm.
2. Control Device or Method Code : 18

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

Emissions Unit Information Section 7
Activated Carbon Storage Silo

Emissions Unit Details

1. Initial Startup Date :	09-Feb-2000	
2. Long-term Reserve Shutdown Date :		
3. Package Unit :		
Manufacturer : To be provided.	Model Number :	
4. Generator Nameplate Rating :	MW	
5. Incinerator Information :		
Dwell Temperature :	Degrees Fahrenheit	
Dwell Time :	Seconds	
Incinerator Afterburner Temperature :	Degrees Fahrenheit	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :	200	tons per year
4. Maximum Production Rate :		
5. Operating Capacity Comment :		

Emissions Unit Operating Schedule

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

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Emissions Unit Information Section

7

Activated Carbon Storage Silo

Rule Applicability Analysis

Refer to Volume 1, Section 2

III. Part 6a - 7

DEP Form No. 62-210.900(1) - Form

Effective : 3-21-96

List of Applicable Regulations

Refer to Volume 1, Section 2.

E. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 7

Activated Carbon Storage Silo

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	See Vol. 1 Fig. 6-4	
2. Emission Point Type Code :	1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking : (limit to 100 characters per point)		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common : Activated carbon storage silo vent and fabric filter.		
5. Discharge Type Code :	P	
6. Stack Height :	feet	
7. Exit Diameter :	feet	
8. Exit Temperature :	°F	
9. Actual Volumetric Flow Rate :	1200	acfm
10. Percent Water Vapor :	%	
11. Maximum Dry Standard Flow Rate :	1200	dscfm
12. Nonstack Emission Point Height :	feet	
13. Emission Point UTM Coordinates :		
Zone :	East (km) :	North (km) :
14. Emission Point Comment : Information on emission height and precise location to be provided.		

III. Part 7a - 6

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

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

Emissions Unit Information Section 7
Activated Carbon Storage Silo

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - PM	018		EL

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

Emissions Unit Information Section 7

Activated Carbon Storage Silo

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : PM		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :	lb/hour	tons/year
4. Synthetically Limited? [] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions:	to	tons/year
6. Emissions Factor : Reference :		
7. Emissions Method Code :	5	
8. Calculations of Emissions :		
9. Pollutant Potential/Estimated Emissions Comment : PM emissions are below the 5 tpy reporting threshold.		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 7
Activated Carbon Storage Silo

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	05
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	Normal Conditions : 5 % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : 0 min/hour
4. Method of Compliance :	Method 9
5. Visible Emissions Comment :	The City of Tampa is requesting that compliance with the PM emission rate limitation be determined using Method 9 VE tests indicating no visible emissions in lieu of PM stack tests pursuant to FAC 62-296.711(3)(c) and 62-297.260(4).

III. Part 10 - 7

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

Emissions Unit Information Section 7

Activated Carbon Storage Silo

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- [] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- [] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- [X] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

III. Part 12 - 25

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

2. Increment Consuming for Nitrogen Dioxide?

- [] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- [] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- [] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :		
PM : C	SO2 :	NO2 :
4. Baseline Emissions :		
PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year
5. PSD Comment :		



L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section

7

Activated Carbon Storage Silo

Supplemental Requirements for All Applications

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

Additional Supplemental Requirements for Category I Applications Only

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

III. Part 13 - 13

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

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 8

MWC Auxiliary Burner - Unit #1

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

- The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
- The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

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

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

III. Part 1 - 8

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

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

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : MWC Auxiliary Burner - Unit #1		
2. Emissions Unit Identification Number : 108 [] No Corresponding ID [] Unknown		
3. Emissions Unit Status Code : C	4. Acid Rain Unit? [] Yes [X] No	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment : The auxiliary burners will be used for firing the combustor during start up and shut downs and to maintain required furnace temperatures when sustained low Btu wastes are encountered. The City of Tampa is requesting permit limits which restrict the annual use of natural gas to less than 10 percent of the total annual capacity for each unit so that the NSPS Subpart Db requirements for NOx do not apply. The size of the burners and their fuel consumption rate is to be determined. The burners will have emissions only emit NOx in amounts above the reporting thresholds. CO, SO2, PM10, and VOCs will be emitted in amounts less than 5 tpy.		

Emissions Unit Information Section 8
MWC Auxiliary Burner - Unit #1

Emissions Unit Control Equipment 1

1. Description :	
Selective Non-catalytic Reduction System	
2. Control Device or Method Code :	107

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

Emissions Unit Information Section

8

MWC Auxiliary Burner - Unit #1

Emissions Unit Details

1. Initial Startup Date :	22-Jan-2001	
2. Long-term Reserve Shutdown Date :		
3. Package Unit :		
Manufacturer :	To be provided once a vendor is selected	Model Number :
4. Generator Nameplate Rating :	MW	
5. Incinerator Information :		
Dwell Temperature :		Degrees Fahrenheit
Dwell Time :		Seconds
Incinerator Afterburner Temperature :		Degrees Fahrenheit

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	12	mmBtu/hr
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :		
4. Maximum Production Rate :		
5. Operating Capacity Comment :		
	The unit will have a restricted use of less than 10% of the waste combustor's total annual capacity (11.98 mmBTU/hr or 28.75 tpd).	

Emissions Unit Operating Schedule

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

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Emissions Unit Information Section 8

MWC Auxiliary Burner - Unit #1

Rule Applicability Analysis

Refer to Volume 1, Section 2

III. Part 6a - 8

DEP Form No. 62-210.900(1) - Form

Effective : 3-21-96

Emissions Unit Information Section

8

MWC Auxiliary Burner - Unit #1

List of Applicable Regulations

Refer to Volume 1, Section2

III. Part 6b - 8

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

E. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 8

MWC Auxiliary Burner - Unit #1

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	See Vol. 1 Fig 6-4		
2. Emission Point Type Code :	2		
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking : (limit to 100 characters per point) Not applicable for sources with single emission points			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	<p>Emission units 101-104 (combustion units) and emission units 108-111 (auxiliary burners) will be have four flues within a common stack. Combustion unit 101 and auxiliary burner 108 will share a common flue as will 102 and 109, 103 and 110, 104 and 111.</p>		
5. Discharge Type Code :	V		
6. Stack Height :	201	feet	
7. Exit Diameter :	8.4	feet	
8. Exit Temperature :	°F		
9. Actual Volumetric Flow Rate :	acfm		
10. Percent Water Vapor :	%		
11. Maximum Dry Standard Flow Rate :	dscfm		
12. Nonstack Emission Point Height :	feet		
13. Emission Point UTM Coordinates :			
Zone :	17	East (km) :	360.196
		North (km) :	3092.208
14. Emission Point Comment :	The auxiliary burner emissions will use the same stack as the combustor units.		

III. Part 7a - 7

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 8

MWC Auxiliary Burner - Unit #1

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : An auxiliary burner will be installed for each of the waste combustor units. The burners will be used during start up and shut down and to maintain the required furnace temperatures. The anticipated time for boiler warm up is expected to be approximately eight hours. The size of the burners and their fuel consumption rate is to be determined.	
2. Source Classification Code (SCC) : 1-02-006-02	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate :	5. Maximum Annual Rate : 11.98
6. Estimated Annual Activity Factor : 100.00	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 1,000	
10. Segment Comment :	

III. Part 8 - 6

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

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

Emissions Unit Information Section 8
MWC Auxiliary Burner - Unit #1

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - NOX	107		NS

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

Emissions Unit Information Section 8
MWC Auxiliary Burner - Unit #1

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : NOX			
2. Total Percent Efficiency of Control :		%	
3. Potential Emissions :		lb/hour	10.49 tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Range of Estimated Fugitive/Other Emissions:		to	tons/year
6. Emissions Factor : Reference : NSPS			
7. Emissions Method Code : 0			
8. Calculations of Emissions : 119.8 MMBtu/hr X 8760 hr/yr = 1.05 E6 MMBtu/yr (maximum annual heat input into the combustor) 1.05E6 MMBtu/yr X 10% = 1.05 E5 MMBtu/yr (Subpart Db exclusion threshold) 1.05 E5 MMBtu/yr X 0.2 lb/MMBtu / 2000 lb/ton = 10.49 tpy			
9. Pollutant Potential/Estimated Emissions Comment : The NOx emission factor for the auxiliary burners has been taken from the 40 CFR 60 Subpart Db (0.2 lb/MMBtu).			

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 8
MWC Auxiliary Burner - Unit #1

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	15
2. Basis for Allowable Opacity :	OTHER
3. Requested Allowable Opacity :	Normal Conditions : 15 % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :	Continuous Opacity Monitors
5. Visible Emissions Comment :	Continuous Opacity Monitors are required for the combustors, opacity will also be monitored during periods when the auxiliary burners are operating. The combustors have visibility requirements in Permit AO 29-206279, Specific condition 3 and 4. Excess emissions are limited to a total of 2 hours in any 24 hour period.

III. Part 10 - 8

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 8
MWC Auxiliary Burner - Unit #1

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code : EM	2. Pollutant : NOX
3. CMS Requirement : OTHER	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : CEMs will be installed for the combustors and will operate during periods when the auxiliary burner is operating.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 8

MWC Auxiliary Burner - Unit #1

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code : VE	2. Pollutant :
3. CMS Requirement : OTHER	
4. Monitor Information : Manufacturer : To be determined Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Continuous opacity monitors are required for the combustor units. The monitors will also run during periods when the auxiliary burners are operating.	

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

Emissions Unit Information Section 8

MWC Auxiliary Burner - Unit #1

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

- The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :		
PM : C	SO2 : C	NO2 : C
4. Baseline Emissions :		
PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		189.7000 tons/year
5. PSD Comment :		

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 8

MWC Auxiliary Burner - Unit #1

Supplemental Requirements for All Applications

1. Process Flow Diagram :	Append A Fig 3
2. Fuel Analysis or Specification :	Vol. 1, Sect. 6
3. Detailed Description of Control Equipment :	To be provided.
4. Description of Stack Sampling Facilities :	To be provided.
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statute :	NA

Additional Supplemental Requirements for Category I Applications Only

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

III. Part 13 - 15

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

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 9

MWC Auxiliary Burner - Unit #2

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

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

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

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

III. Part 1 - 9

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

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : MWC Auxiliary Burner - Unit #2		
2. Emissions Unit Identification Number : 109 [] No Corresponding ID [] Unknown		
3. Emissions Unit Status Code : C	4. Acid Rain Unit? [] Yes [X] No	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment : The auxiliary burners will be used for firing the combustor during start up and shut downs and to maintain required furnace temperatures when sustained low Btu wastes are encountered. The City of Tampa is requesting permit limits which restrict the annual use of natural gas to less than 10 percent of the total annual capacity for each unit so that the NSPS Subpart Db requirements for NOx do not apply. The size of the burners and their fuel consumption rate is to be determined. The burners will have emissions only emit NOx in amounts above the reporting thresholds. CO, SO2, PM10, and VOCs will be emitted in amounts less than 5 tpy.		

Emissions Unit Information Section 9
MWC Auxiliary Burner - Unit #2

Emissions Unit Control Equipment 1

1. Description :	
Selective Non-Catalytic Reduction System	
2. Control Device or Method Code :	107

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

Emissions Unit Information Section

9

MWC Auxiliary Burner - Unit #2

Emissions Unit Details

1. Initial Startup Date :	22-Jan-2001	
2. Long-term Reserve Shutdown Date :		
3. Package Unit :		
Manufacturer :	To be provided once a vendor is selected	Model Number :
4. Generator Nameplate Rating :	MW	
5. Incinerator Information :		
Dwell Temperature :		Degrees Fahrenheit
Dwell Time :		Seconds
Incinerator Afterburner Temperature :		Degrees Fahrenheit

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	12	mmBtu/hr
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :		
4. Maximum Production Rate :		
5. Operating Capacity Comment :		
	The unit will have a restricted use of less than 10% of the waste combuster's total annual capacity (11.98 mmBTU/hr or 28.75 tpd).	

Emissions Unit Operating Schedule

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

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Emissions Unit Information Section 9
MWC Auxiliary Burner - Unit #2

Rule Applicability Analysis

Refer to Volume 1, Section 2

III. Part 6a - 9

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

List of Applicable Regulations

Refer to Volume 1, Section2

E. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 9

MWC Auxiliary Burner - Unit #2

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	See Vol. 1 Fig 6-4		
2. Emission Point Type Code :	2		
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking : (limit to 100 characters per point) Not applicable for sources with single emission points			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	Emission units 101-104 (combustion units) and emission units 108-111 (auxiliary burners) will be have four flues within a common stack. Combustion unit 101 and auxiliary burner 108 will share a common flue as will 102 and 109, 103 and 110, 104 and 111.		
5. Discharge Type Code :	V		
6. Stack Height :	201	feet	
7. Exit Diameter :	8.4	feet	
8. Exit Temperature :	°F		
9. Actual Volumetric Flow Rate :	acfm		
10. Percent Water Vapor :	%		
11. Maximum Dry Standard Flow Rate :	dscfm		
12. Nonstack Emission Point Height :	feet		
13. Emission Point UTM Coordinates :			
Zone :	17	East (km) :	360.196
		North (km) :	3092.208
14. Emission Point Comment :	The auxiliary burner emissions will use the same stack as the combustor units.		

III. Part 7a - 9

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 9

MWC Auxiliary Burner - Unit #2

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : An auxiliary burner will be installed for each of the waste combustor units. The burners will be used during start up and shut down and to maintain the required furnace temperatures. The anticipated time for boiler warm up is expected to be approximately eight hours. The size of the burners and their fuel consumption rate is to be determined.	
2. Source Classification Code (SCC) : 1-02-006-02	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate :	5. Maximum Annual Rate : 11.98
6. Estimated Annual Activity Factor : 100.00	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 1,000	
10. Segment Comment :	

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

Emissions Unit Information Section 9
MWC Auxiliary Burner - Unit #2

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - NOX	107		NS

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

Emissions Unit Information Section 9
MWC Auxiliary Burner - Unit #2

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : NOX			
2. Total Percent Efficiency of Control :		%	
3. Potential Emissions :		lb/hour	10.49 tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Range of Estimated Fugitive/Other Emissions:		to	tons/year
6. Emissions Factor : Reference : NSPS			
7. Emissions Method Code : 0			
8. Calculations of Emissions : 119.8 MMBtu/hr X 8760 hr/yr = 1.05 E6 MMBtu/yr (maximum annual heat input into the combustor) 1.05E6 MMBtu/yr X 10% = 1.05 E5 MMBtu/yr (Subpart Db exclusion threshold) 1.05 E5 MMBtu/yr X 0.2 lb/MMBtu / 2000 lb/ton = 10.49 tpy			
9. Pollutant Potential/Estimated Emissions Comment : The NOx emission factor for the auxiliary burners has been taken from the 40 CFR 60 Subpart Db (0.2 lb/MMBtu).			

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 9

MWC Auxiliary Burner - Unit #2

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code : EM	2. Pollutant : NOX
3. CMS Requirement : OTHER	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : CEMs will be installed for the combustors and will operate during periods when the auxiliary burner is operating.	

**J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Information Section 9
MWC Auxiliary Burner - Unit #2

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code : VE	2. Pollutant :
3. CMS Requirement : OTHER	
4. Monitor Information : Manufacturer : To be determined Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Continuous opacity monitors are required for the combustor units. The monitors will also run during periods when the auxiliary burners are operating.	

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

Emissions Unit Information Section 9

MWC Auxiliary Burner - Unit #2

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

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2. Increment Consuming for Nitrogen Dioxide?

- The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :		
PM : C	SO2 : C	NO2 : C
4. Baseline Emissions :		
PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		189.7000 tons/year
5. PSD Comment :		

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 9

MWC Auxiliary Burner - Unit #2

Supplemental Requirements for All Applications

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

Additional Supplemental Requirements for Category I Applications Only

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

III. Part 13 - 17

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

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 10

MWC Auxiliary Burner - Unit #3

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

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

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

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

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

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : MWC Auxiliary Burner - Unit #3		
2. Emissions Unit Identification Number : 110 [] No Corresponding ID [] Unknown		
3. Emissions Unit Status Code : C	4. Acid Rain Unit? [] Yes [X] No	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment : The auxiliary burners will be used for firing the combustor during start up and shut downs and to maintain required furnace temperatures when sustained low Btu wastes are encountered. The City of Tampa is requesting permit limits which restrict the annual use of natural gas to less than 10 percent of the total annual capacity for each unit so that the NSPS Subpart Db requirements for NOx do not apply. The size of the burners and their fuel consumption rate is to be determined. The burners will have emissions only emit NOx in amounts above the reporting thresholds. CO, SO2, PM10, and VOCs will be emitted in amounts less than 5 tpy.		

Emissions Unit Information Section 10
MWC Auxiliary Burner - Unit #3

Emissions Unit Control Equipment 1

1. Description :	
Selective Non-Catalytic Reduction System	
2. Control Device or Method Code :	107

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

Emissions Unit Information Section 10
MWC Auxiliary Burner - Unit #3

Emissions Unit Details

1. Initial Startup Date :	09-Feb-2000	
2. Long-term Reserve Shutdown Date :		
3. Package Unit :		
Manufacturer :	To be provided once a vendor is selected	Model Number :
4. Generator Nameplate Rating :	MW	
5. Incinerator Information :		
Dwell Temperature :		Degrees Fahrenheit
Dwell Time :		Seconds
Incinerator Afterburner Temperature :		Degrees Fahrenheit

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	12	mmBtu/hr
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :		
4. Maximum Production Rate :		
5. Operating Capacity Comment :		
	The unit will have a restricted use of less than 10% of the waste combuster's total annual capacity (11.98 mmBTU/hr or 28.75 tpd).	

Emissions Unit Operating Schedule

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

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Emissions Unit Information Section 10
MWC Auxiliary Burner - Unit #3

Rule Applicability Analysis

Refer to Volume 1, Section 2

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Emissions Unit Information Section

10

MWC Auxiliary Burner - Unit #3

List of Applicable Regulations

Refer to Volume 1, Section2

III. Part 6b - 10

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E. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 10

MWC Auxiliary Burner - Unit #3

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	See Vol. 1 Fig 6-4		
2. Emission Point Type Code :	2		
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking : (limit to 100 characters per point) Not applicable for sources with single emission points			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	Emission units 101-104 (combustion units) and emission units 108-111 (auxiliary burners) will be have four flues within a common stack. Combustion unit 101 and auxiliary burner 108 will share a common flue as will 102 and 109, 103 and 110, 104 and 111.		
5. Discharge Type Code :	V		
6. Stack Height :	201	feet	
7. Exit Diameter :	8.4	feet	
8. Exit Temperature :	°F		
9. Actual Volumetric Flow Rate :	acfm		
10. Percent Water Vapor :	%		
11. Maximum Dry Standard Flow Rate :	dscfm		
12. Nonstack Emission Point Height :	feet		
13. Emission Point UTM Coordinates :			
Zone :	17	East (km) :	360.196
		North (km) :	3092.208
14. Emission Point Comment :	The auxiliary burner emissions will use the same stack as the combustor units.		

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F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 10

MWC Auxiliary Burner - Unit #3

Segment Description and Rate : Segment 1

<p>1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :</p> <p style="margin-left: 20px;">An auxiliary burner will be installed for each of the waste combustor units. The burners will be used during start up and shut down and to maintain the required furnace temperatures. The anticipated time for boiler warm up is expected to be approximately eight hours. The size of the burners and their fuel consumption rate is to be determined.</p>	
<p>2. Source Classification Code (SCC) : 1-02-006-02</p>	
<p>3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)</p>	
<p>4. Maximum Hourly Rate :</p>	<p>5. Maximum Annual Rate : 11.98</p>
<p>6. Estimated Annual Activity Factor : 100.00</p>	
<p>7. Maximum Percent Sulfur :</p>	<p>8. Maximum Percent Ash :</p>
<p>9. Million Btu per SCC Unit : 1,000</p>	
<p>10. Segment Comment :</p>	

III. Part 8 - 8

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

Emissions Unit Information Section 10
MWC Auxiliary Burner - Unit #3

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - NOX	107		NS

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

Emissions Unit Information Section 10
MWC Auxiliary Burner - Unit #3

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : NOX			
2. Total Percent Efficiency of Control :		%	
3. Potential Emissions :		lb/hour	tons/year
		10.49	
4. Synthetically Limited? [] Yes [X] No			
5. Range of Estimated Fugitive/Other Emissions:		to	tons/year
6. Emissions Factor : Reference : NSPS			
7. Emissions Method Code : 0			
8. Calculations of Emissions :			
<p>119.8 MMBtu/hr X 8760 hr/yr = 1.05 E6 MMBtu/yr (maximum annual heat input into the combustor)</p> <p>1.05E6 MMBtu/yr X 10% = 1.05 E5 MMBtu/yr (Subpart Db exclusion threshold)</p> <p>1.05 E5 MMBtu/yr X 0.2 lb/MMBtu / 2000 lb/ton = 10.49 tpy</p>			
9. Pollutant Potential/Estimated Emissions Comment :			
<p>The NOx emission factor for the auxiliary burners has been taken from the 40 CFR 60 Subpart Db (0.2 lb/MMBtu).</p>			

**I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Information Section 10
MWC Auxiliary Burner - Unit #3

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	15
2. Basis for Allowable Opacity :	OTHER
3. Requested Allowable Opacity :	Normal Conditions : 15 % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :	Continuous Opacity Monitors
5. Visible Emissions Comment :	Continuous Opacity Monitors are required for the combustors, opacity will also be monitored during periods when the auxiliary burners are operating. The combustors have visibility requirements in Permit AO 29-206279, Specific condition 3 and 4. Excess emissions are limited to a total of 2 hours in any 24 hour period.

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 10

MWC Auxiliary Burner - Unit #3

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code : EM	2. Pollutant : NOX
3. CMS Requirement : OTHER	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : CEMs will be installed for the combustors and will operate during periods when the auxiliary burner is operating.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 10

MWC Auxiliary Burner - Unit #3

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code : VE	2. Pollutant :
3. CMS Requirement : OTHER	
4. Monitor Information : Manufacturer : To be determined Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Continuous opacity monitors are required for the combustor units. The monitors will also run during periods when the auxiliary burners are operating.	

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

Emissions Unit Information Section 10

MWC Auxiliary Burner - Unit #3

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

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2. Increment Consuming for Nitrogen Dioxide?

-] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
-] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
-] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
-] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
-] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :		
PM : C	SO2 : C	NO2 : C
4. Baseline Emissions :		
PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		189.7000 tons/year
5. PSD Comment :		

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 10

MWC Auxiliary Burner - Unit #3

Supplemental Requirements for All Applications

1. Process Flow Diagram :	Append A Fig 3
2. Fuel Analysis or Specification :	Vol. 1, Sect. 6
3. Detailed Description of Control Equipment :	To be provided.
4. Description of Stack Sampling Facilities :	To be provided.
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statute :	NA

Additional Supplemental Requirements for Category I Applications Only

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

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

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 11

MWC Auxiliary Burner - Unit #4

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

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

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

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

Emissions Unit Information Section 11
MWC Auxiliary Burner - Unit #4

Emissions Unit Control Equipment 1

1. Description :	
Selective Non-catalytic Reduction System	
2. Control Device or Method Code :	107

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

Emissions Unit Information Section 11
MWC Auxiliary Burner - Unit #4

Emissions Unit Details

1. Initial Startup Date :	09-Feb-2000	
2. Long-term Reserve Shutdown Date :		
3. Package Unit :		
Manufacturer :	To be provided once a vendor is selected	Model Number :
4. Generator Nameplate Rating :	MW	
5. Incinerator Information :		
Dwell Temperature :		Degrees Fahrenheit
Dwell Time :		Seconds
Incinerator Afterburner Temperature :		Degrees Fahrenheit

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	12	mmBtu/hr
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :		
4. Maximum Production Rate :		
5. Operating Capacity Comment :		
	The unit will have a restricted use of less than 10% of the waste combustor's total annual capacity (11.98 mmBTU/hr or 28.75 tpd).	

Emissions Unit Operating Schedule

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

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Emissions Unit Information Section

11

MWC Auxiliary Burner - Unit #4

Rule Applicability Analysis

Refer to Volume 1, Section 2

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List of Applicable Regulations

Refer to Volume 1, Section2

E. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 11

MWC Auxiliary Burner - Unit #4

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	See Vol. 1 Fig 6-4		
2. Emission Point Type Code :	2		
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking : (limit to 100 characters per point) Not applicable for sources with single emission points			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :			
Emission units 101-104 (combustion units) and emission units 108-111 (auxiliary burners) will be have four flues within a common stack. Combustion unit 101 and auxiliary burner 108 will share a common flue as will 102 and 109, 103 and 110, 104 and 111.			
5. Discharge Type Code :	V		
6. Stack Height :	201	feet	
7. Exit Diameter :	8.4	feet	
8. Exit Temperature :	°F		
9. Actual Volumetric Flow Rate :	acfm		
10. Percent Water Vapor :	%		
11. Maximum Dry Standard Flow Rate :	dscfm		
12. Nonstack Emission Point Height :	feet		
13. Emission Point UTM Coordinates :			
Zone :	17	East (km) :	360.196
		North (km) :	3092.208
14. Emission Point Comment :			
The auxiliary burner emissions will use the same stack as the combustor units.			

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F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 11

MWC Auxiliary Burner - Unit #4

Segment Description and Rate : Segment 1

<p>1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :</p> <p>An auxiliary burner will be installed for each of the waste combustor units. The burners will be used during start up and shut down and to maintain the required furnace temperatures. The anticipated time for boiler warm up is expected to be approximately eight hours. The size of the burners and their fuel consumption rate is to be determined.</p>	
<p>2. Source Classification Code (SCC) : 1-02-006-02</p>	
<p>3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)</p>	
<p>4. Maximum Hourly Rate :</p>	<p>5. Maximum Annual Rate : 11.98</p>
<p>6. Estimated Annual Activity Factor : 100.00</p>	
<p>7. Maximum Percent Sulfur :</p>	<p>8. Maximum Percent Ash :</p>
<p>9. Million Btu per SCC Unit : 1,000</p>	
<p>10. Segment Comment :</p>	

III. Part 8 - 9

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

Emissions Unit Information Section 11
MWC Auxiliary Burner - Unit #4

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - NOX	107		NS

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

Emissions Unit Information Section 11
MWC Auxiliary Burner - Unit #4

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : NOX			
2. Total Percent Efficiency of Control :		%	
3. Potential Emissions :		lb/hour	10.49 tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Range of Estimated Fugitive/Other Emissions:		to	tons/year
6. Emissions Factor : Reference : NSPS			
7. Emissions Method Code : 0			
8. Calculations of Emissions : 119.8 MMBtu/hr X 8760 hr/yr = 1.05 E6 MMBtu/yr (maximum annual heat input into the combustor) 1.05E6 MMBtu/yr X 10% = 1.05 E5 MMBtu/yr (Subpart Db exclusion threshold) 1.05 E5 MMBtu/yr X 0.2 lb/MMBtu / 2000 lb/ton = 10.49 tpy			
9. Pollutant Potential/Estimated Emissions Comment : The NOx emission factor for the auxiliary burners has been taken from the 40 CFR 60 Subpart Db (0.2 lb/MMBtu).			

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 11
MWC Auxiliary Burner - Unit #4

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	15
2. Basis for Allowable Opacity :	OTHER
3. Requested Allowable Opacity :	Normal Conditions : 15 % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :	Continuous Opacity Monitors
5. Visible Emissions Comment :	Continuous Opacity Monitors are required for the combustors, opacity will also be monitored during periods when the auxiliary burners are operating. The combustors have visibility requirements in Permit AO 29-206279, Specific condition 3 and 4. Excess emissions are limited to a total of 2 hours in any 24 hour period.

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 11

MWC Auxiliary Burner - Unit #4

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code : EM	2. Pollutant : NOX
3. CMS Requirement : OTHER	
4. Monitor Information : Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : CEMs will be installed for the combustors and will operate during periods when the auxiliary burner is operating.	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 11

MWC Auxiliary Burner - Unit #4

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code : VE	2. Pollutant :
3. CMS Requirement : OTHER	
4. Monitor Information : Manufacturer : To be determined Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment : Continuous opacity monitors are required for the combustor units. The monitors will also run during periods when the auxiliary burners are operating.	

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

Emissions Unit Information Section 11

MWC Auxiliary Burner - Unit #4

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

III. Part 12 - 10

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

2. Increment Consuming for Nitrogen Dioxide?

- The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :		
PM : C	SO2 : C	NO2 : C
4. Baseline Emissions :		
PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		189.7000 tons/year
5. PSD Comment :		

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 11

MWC Auxiliary Burner - Unit #4

Supplemental Requirements for All Applications

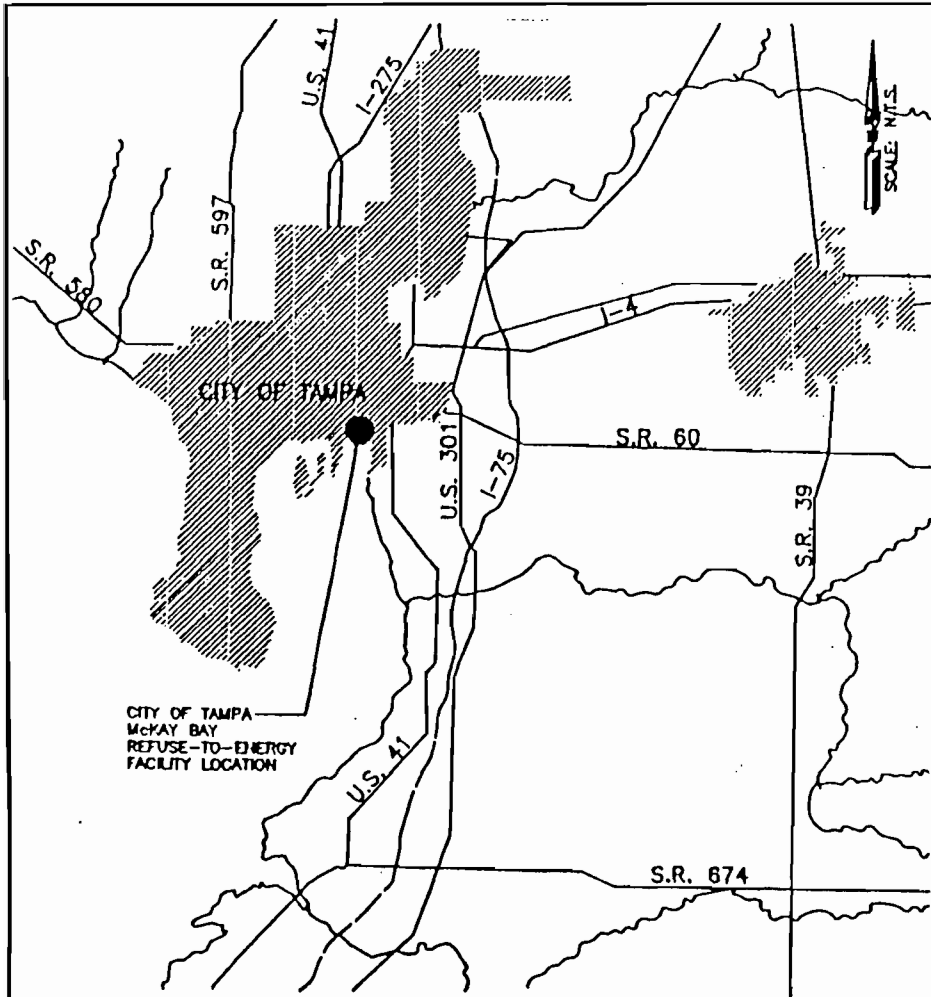
1. Process Flow Diagram :	Append A Fig 3
2. Fuel Analysis or Specification :	Vol. 1, Sect. 6
3. Detailed Description of Control Equipment :	To be provided.
4. Description of Stack Sampling Facilities :	To be provided.
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statute :	NA

Additional Supplemental Requirements for Category I Applications Only

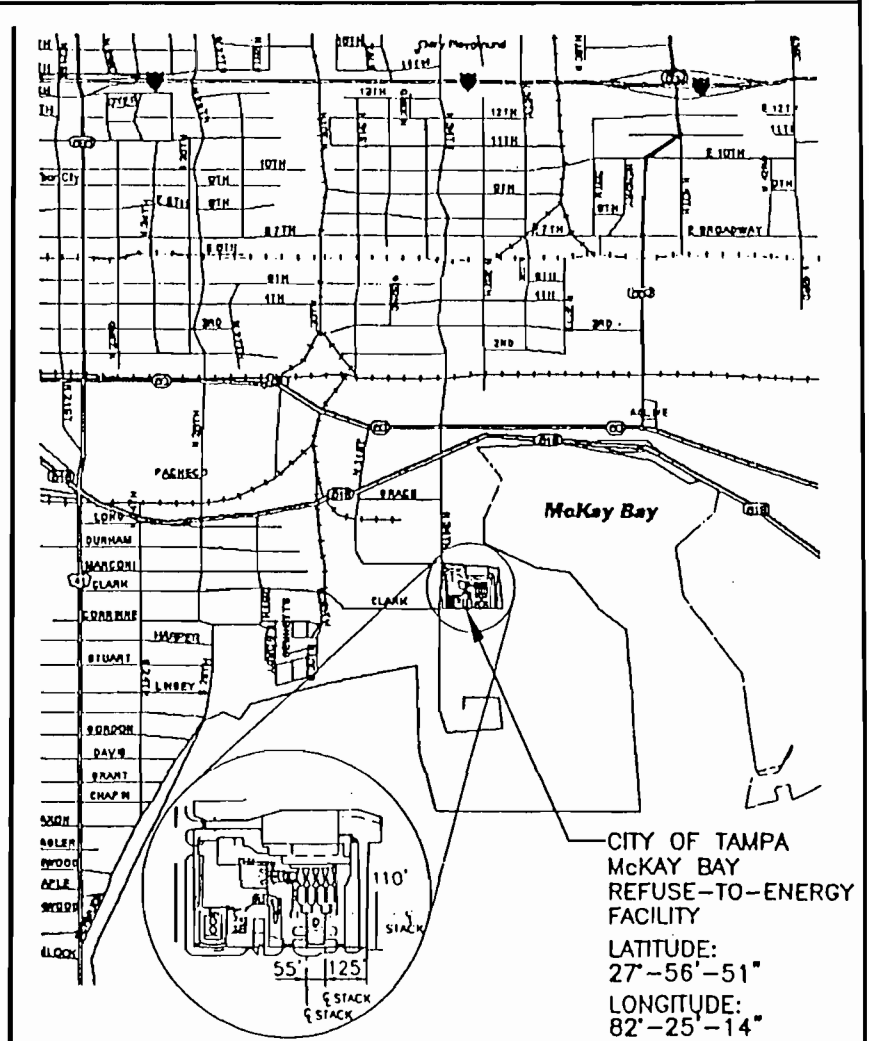
10. Alternative Methods of Operations :	NA
11. Alternative Modes of Operation (Emissions Trading) :	NA

III. Part 13 - 21

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



VICINITY MAP



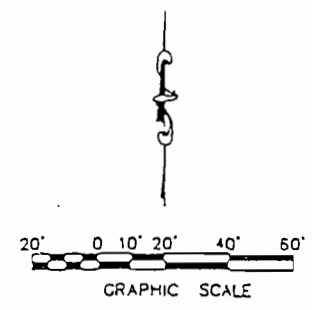
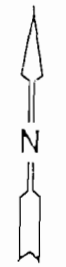
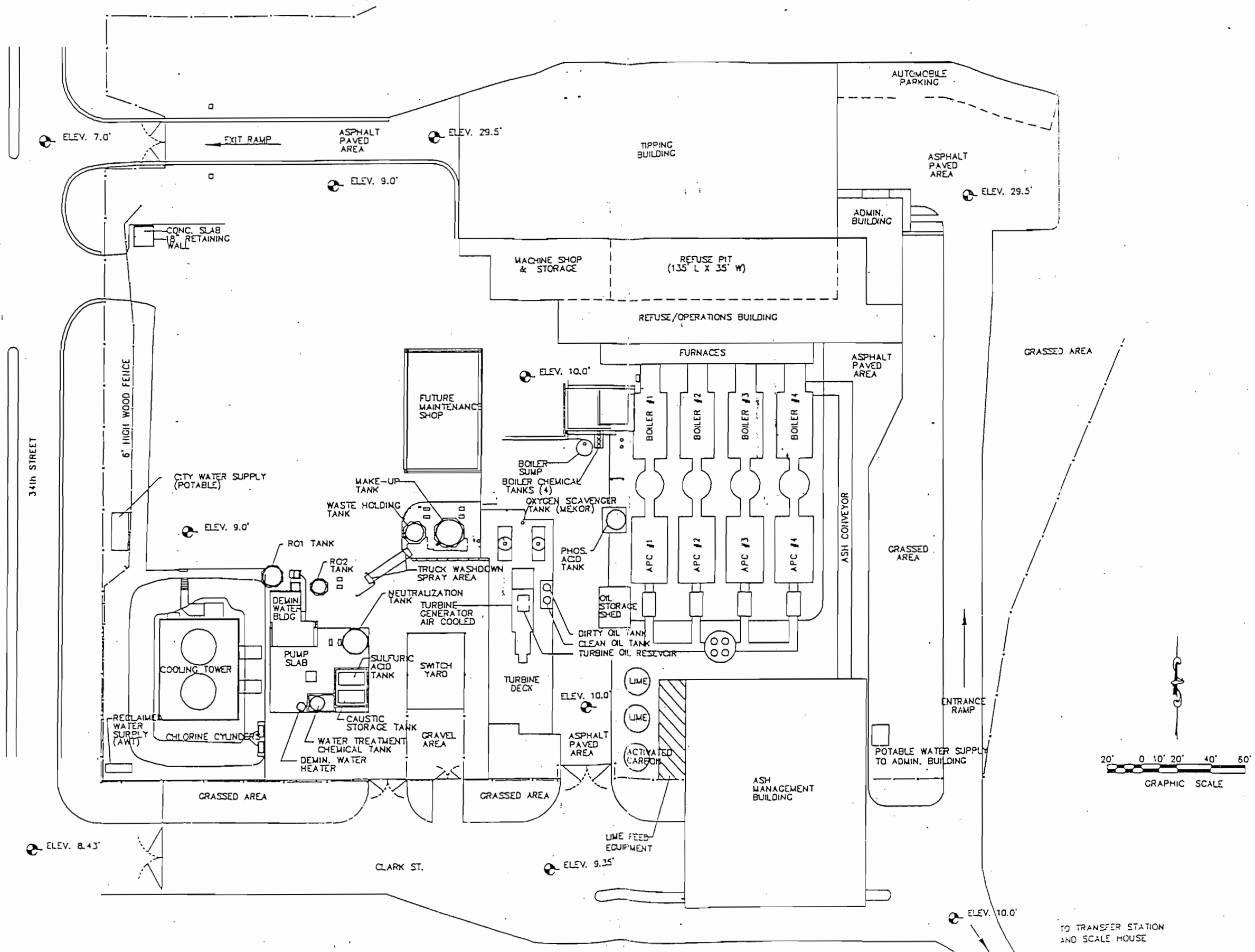
AREA MAP

Appendix A

**McKay Bay
Refuse to Energy Facility**

Source: Klsinger Campo & Associates Corporation

**Appendix A Figure 1
Location Map**



Source: Malcolm Pirnie, Tampa, FL

CDM Camp Dresser & McKee

Tampa McKay Bay Refuse to Energy Facility
Appendix A Figure 2
 Possible Future Facility Site Layout

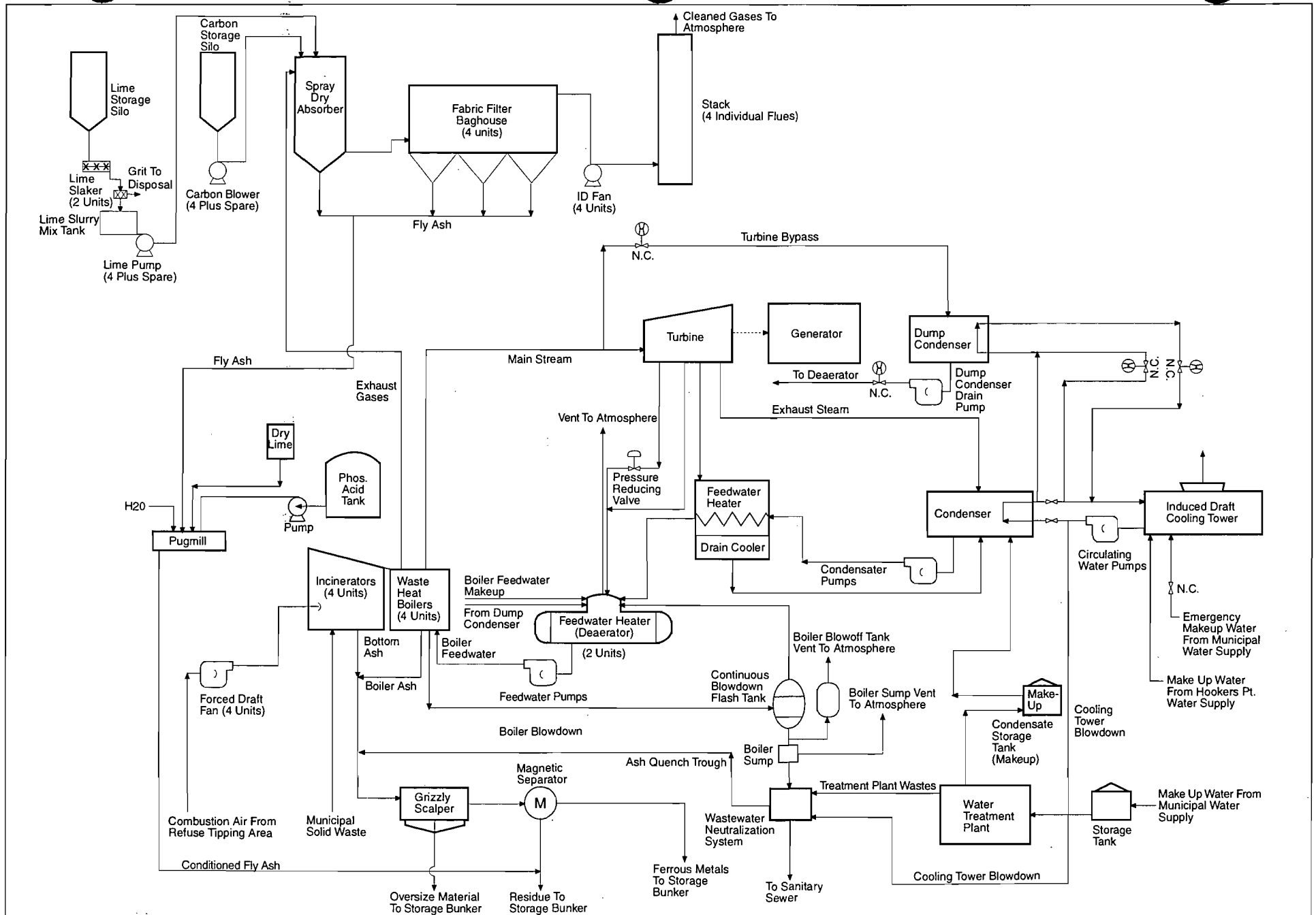


Figure 3
McKay Bay Refuse-To-Energy Facility
Overall Process Flow Diagram

Appendix A Attachment 1

Operational Measures used to Prevent Emissions of Particulate Matter

Precautions include the following:

- Tipping building is enclosed.
- Ash/metal storage and loadout buildings are enclosed.
- fly ash conveyors are enclosed.
- Outdoor ash conveyors are enclosed.
- Roads, parking area and yards are paved.
- A street sweeper equipped with a vacuum system is used to remove particulate matter from roads and other paved areas.
- The unpaved areas of the facility are maintained and either sodded or landscaped.
- The bottom ash is quenched and wetted.
- The fly ash is wetted in a pugmill ash conditioning system and then blended with the wet bottom ash.
- The wetted combined ash is processed for recyclable ferrous metals and the remaining ash and recovered metal fractions stored within an enclosed building prior to loading into a truck for disposal.
- The ash hauling trucks are equipped with tarps and subject to a wheel wash prior to leaving the site.

Appendix A Attachment 2

List of Potential Fugitive Emissions

Refuse Delivery & Handling Area

1. Trucks delivering MSW to Tipping Building and exiting site
2. Trucks dumping MSW in Tipping Building
3. Front end loader operations in Tipping Building
4. Floor sweeper operations in Tipping Building
5. Crane grapple loading of MSW into charging hopper

Furnace/ Boiler Area

1. Stoker/ grate siftings/ conveyor leakage
2. Maintenance and inspection ports on furnace/ boiler
3. Maintenance activities (cleaners, overhauls, etc.)
4. Flue gas duct seals & expansion joints
5. Ash dischargers/ extractors
6. Bottom ash collection and transfer conveyors
7. Ash conveyor transfer points

APC Area

1. Flyash screw conveyor leakage
2. Maintenance and inspection ports on SDAS and FFs
3. Flue gas duct seals and expansion joints
4. Maintenance activities (cleaning, bag replacement, etc.)

Ash/Metal Storage and Loadout Building

1. Grizzly scalper operation
2. Drum magnet operation
3. Conveyor transfer points
1. Moistened ash loadout by front end loader into ash transfer trucks
2. Recovered ferrous metal loadout by front end loader into metal transfer trucks
3. Ash and metal transfer trucks entering and exiting site