

Jeb Bush  
Governor

Bruce Mitchell

# Department of Environmental Protection

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

David B. Struhs  
Secretary

January 21, 2003

CERTIFIED MAIL – Return Receipt Requested

Mr. E. David Fernandez  
Utility Director  
City of Key West  
Southernmost Waste-to-Energy Facility  
P. O. Box 1409  
Key West, Florida 33041-1409

Re: Section 111(d) Compliance Schedule Progress and Applicable Requirements  
**2<sup>nd</sup> Notice**

Dear Mr. Fernandez:

Please refer to the attached Compliance Schedule that applies to the municipal waste combustion units at your facility (ID. No. **0870047**). This Compliance Schedule is a requirement of Rule 62-204.800(8)(e), F.A.C. The first Increment of Progress scheduled event, "Submit Final Control Plan", was due on September 30, 2001. On August 29, 2002, a letter was sent to you requesting the "Final Control Plan"; and, on October 8, 2002, a letter was sent to you requesting a listing of the applicable requirements pertaining to 40 CFR 60, Subpart BBBB. Please provide us a copy of this Final Control Plan submission and applicable requirements as soon as possible.

In addition, your initial Title V Permit was issued/effective on December 31, 1999. On December 6, 2000, the regulations at 40 CFR Part 60, Subpart BBBB, Emission Guidelines and Compliance Times for Small Municipal Waste Combustion Units Constructed on or before August 30, 1999, became applicable to your facility. Since the additional applicable requirements became applicable to your facility and there is more than 3 (three) years left on your permit as of the effective date of the new regulations, the Department is required to open your Title V Permit for cause and install these requirements in accordance with Rules 62-4.080(1) and 62-213.430(4), F.A.C., and 40 CFR 70.7(f). In order to incorporate the specific applicable requirements of 40 CFR Part 60, Subparts A and BBBB, into your Title V Permit, please provide the specific rule cites of these applicable regulations for your facility and affected emissions units.

If there are any questions, please give Bruce Mitchell a call at 850/413-9198.

Sincerely,

Scott M. Sheplak, P.E.  
Program Administrator  
Title V Section

Attachment

"More Protection, Less Process"

Printed on recycled paper.

## Source Inventory

The two sources in Florida that are subject to 40 CFR 60, Subpart BBBB, are the following. Both sources have valid air operating permits. Each facility has two SMWC units.

1. Bay County Resource Recovery Facility, Panama City (Class I).
2. Southernmost Waste-to-Energy Facility, City of Key West (Class II).

## Compliance Schedules and Increments of Progress

All affected SMWCUs shall comply with all the requirements of Rule 62-204.800(8)(e), F.A.C., and achieve final compliance or cease operation as expeditiously as practicable but not later than the earlier of (1) December 6, 2005, or (2) three years after the effective date of State Plan approval by the EPA. The individual compliance schedules for meeting increments of progress and achieving final compliance, as outlined in each facility's final control plan, are given below.

Table 1. Increments of Progress

Increments of Progress	Source	
	Bay County	Southernmost
Submit Final Control Plan	09/30/01	09/30/01
Award Contracts	05/01/04	09/30/02
Begin Onsite Construction	06/01/04	05/31/03
Complete Onsite Construction	07/15/05	12/01/03
Achieve Final Compliance	11/15/05	03/01/04

## Emissions Limits and Inventory

Table 2 is a summary list of the applicable emission limiting standards for all SMWCUs subject to 40 CFR 60, Subpart BBBB.

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
PROPOSED SECTION 111(d) STATE PLAN



SMALL MUNICIPAL WASTE COMBUSTION UNITS  
November 29, 2001

*Florida Department of Environmental Protection • Division of Air Resources Management  
2600 Blair Stone Road • MS 5500  
Tallahassee, Florida 32399-2400 • (850) 488-0114*



Jeb Bush  
Governor

# Department of Environmental Protection

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

David B. Struhs  
Secretary

October 8, 2002

Mr. E. David Fernandez  
Utility Director  
City of Key West  
Southernmost Waste-to-Energy Facility  
P. O. Box 1409  
Key West, Florida 33041-1409

Re: Section 111(d) Compliance Schedule Progress and Applicable Requirements

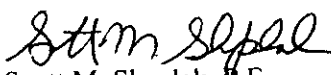
Dear Mr. Fernandez:

Please refer to the attached Compliance Schedule that applies to the municipal waste combustion units at your facility (ID. No. **0870047**). This Compliance Schedule is a requirement of Rule 62-204.800(8)(e), F.A.C. The first Increment of Progress scheduled event, "Submit Final Control Plan", was due on September 30, 2001. On August 29, 2002, a letter was sent to you requesting the "Final Control Plan". Please provide us a copy of this Final Control Plan submission as soon as possible.

In addition, your initial Title V Permit was issued/effective on December 31, 1999. On December 6, 2000, the regulations at 40 CFR Part 60, Subpart BBBB, Emission Guidelines and Compliance Times for Small Municipal Waste Combustion Units Constructed on or before August 30, 1999, became applicable to your facility. Since the additional applicable requirements became applicable to your facility and there is more than 3 (three) years left on your permit as of the effective date of the new regulations, the Department is required to open your Title V Permit for cause and install these requirements in accordance with Rules 62-4.080(1) and 62-213.430(4), F.A.C., and 40 CFR 70.7(f). In order to incorporate the specific applicable requirements of 40 CFR Part 60, Subparts A and BBBB, into your Title V Permit, please provide the specific rule cites of these applicable regulations for your facility and affected emissions units.

If there are any questions, please give Bruce Mitchell a call at 850/413-9198.

Sincerely,

  
Scott M. Sheplak, P.E.  
Program Administrator  
Title V Section

Attachment

"More Protection, Less Process"

Printed on recycled paper.

## Source Inventory

The two sources in Florida that are subject to 40 CFR 60, Subpart BBBB, are the following. Both sources have valid air operating permits. Each facility has two SMWC units.

1. Bay County Resource Recovery Facility, Panama City (Class I).
2. Southernmost Waste-to-Energy Facility, City of Key West (Class II).

## Compliance Schedules and Increments of Progress

All affected SMWCUs shall comply with all the requirements of Rule 62-204.800(8)(e), F.A.C., and achieve final compliance or cease operation as expeditiously as practicable but not later than the earlier of (1) December 6, 2005, or (2) three years after the effective date of State Plan approval by the EPA. The individual compliance schedules for meeting increments of progress and achieving final compliance, as outlined in each facility's final control plan, are given below.

**Table 1. Increments of Progress**

Increments of Progress	Source	
	Bay County	Southernmost
Submit Final Control Plan	09/30/01	09/30/01
Award Contracts	05/01/04	09/30/02
Begin Onsite Construction	06/01/04	05/31/03
Complete Onsite Construction	07/15/05	12/01/03
Achieve Final Compliance	11/15/05	03/01/04

## Emissions Limits and Inventory

Table 2 is a summary list of the applicable emission limiting standards for all SMWCUs subject to 40 CFR 60, Subpart BBBB.

**STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
PROPOSED SECTION 111(d) STATE PLAN**



**SMALL MUNICIPAL WASTE COMBUSTION UNITS  
November 29, 2001**

*Florida Department of Environmental Protection • Division of Air Resources Management  
2600 Blair Stone Road • MS 5500  
Tallahassee, Florida 32399-2400 • (850) 488-0114*



September 17, 2002

THE CITY OF KEY WEST

Mr. Scott M. Sheplak, P.E.  
Administrator  
Title V Section  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

P.O. BOX 1409  
KEY WEST, FL 33041-1409  
www.keywestcity.com

RECEIVED

SEP 30 2002

Re: Final Control Plan compliance schedule  
Southernmost Waste to Energy Facility  
Permit No. **0870047-001 AV**

BUREAU OF AIR REGULATION

Dear Mr. Sheplak:

As per your letter dated August 29, 2002, please find attached the Final Control Plan for the Southernmost Waste to Energy Facility and a letter addressing Mr. Panchakarla's RAI. This plan was submitted to the FDEP on September 26, 2001.

Due to city capital budget freezes the first two quarters after the September 11 attack on the world trade center, and the unexpected amount of time it has taken to prepare proper RFP documents for contract award, the city would like to ask the department to accept this updated timeline to the Final Control Plan.

Submit Final Control Plan	<b>Completed</b>
Award Contracts	<b>July 31, 2003</b>
Begin Onsite Construction	<b>April 30, 2004</b>
Complete Onsite Construction	<b>May 31, 2005</b>
Achieve Final Compliance	<b>October 30, 2005</b>

Please contact my office if you have any questions or need any further information.

R.B. Havens

  
Plant Manager

Southernmost Waste-to-Energy Facility  
(305) 293-6409  
[rbhaven@keywestcity.com](mailto:rbhaven@keywestcity.com)

cc: Venkata Panchakarla, FDEP Tallahassee  
Ronald Blackburn, FDEP Fort Meyers  
Jim Edds, FDEP Marathon  
File

cc: Larry George, OPARM 1/7/03



**FILE COPY**

October 17, 2001

**THE CITY OF KEY WEST**

P. O. BOX 1409  
KEY WEST, FLORIDA 33041-1409  
www.keywestcity.com

Mr. Venkata Panchakarla  
Florida Department of Environmental Protection  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Re: Final Control Plan  
Monroe Co. – AP  
Southernmost Waste to Energy Facility  
Permit No. 0870047-001 AV

Mr. Venkata Panchakarla:

As per our phone conversation on October 15, 2001 here is the additional information you requested.

Please note that the 1996 stack test information is in a table form averaging 5 runs on the two units. I have indicated on the table where more recent information was available.

As I mentioned in our phone conversation the City will be performing another stack test for current information to use for the retrofit RFP around the end of November, as well as our annual Title V compliance test.

If you have any questions or need any further information, please contact my office.

Sincerely,

A handwritten signature in black ink, appearing to read "R.B. Havens", with a long horizontal flourish extending to the right.

R.B. Havens  
Plant Manager  
Southernmost Waste-to-Energy Facility  
Ph: (305) 293-6409

cc: Ronald Blackburn / FDEP Fort Meyers  
Jim Edds / FDEP Marathon

RH

Attachments: (3) Supplement 2, July 1996 Stack Test Results  
Table 4 and 5 of Subpart BBBB

COM 2001 BAB



**SUPPLEMENT 2**

**Southernmost Waste-to-Energy Facility (SWEF)**

**Stack Testing Results - July 1996**

Unit:	#1	#1	#1	#2	#2	#2	Average
Fuel:	Dry	Wet	Dry	Dry	Dry	Dry	(lbs/hr)
Capacity:	100%	100%	50%	100%	75%	75%	(lbs/hr)
Date:	8/15/96	8/17/96	8/16/96	8/18/96	8/19/96	8/19/96	
Pollutant	Emission Rate (lbs/hr)	Emission Rate (lbs/hr)	Emission Rate (lbs/hr)	Emission Rate (lbs/hr)	Emission Rate (lbs/hr)	Emission Rate (lbs/hr)	Average (lbs/hr)
TSP	0.608	0.443	0.596	0.838	2.537	1.004	1.004
PM(10)-Front	1.535	X	1.075	0.982	X	1.197	1.197
PM(10)-Back	2.438	X	2.383	2.625	X	2.482	2.482
PM(10)-Both	3.973	X	3.458	3.607	X	3.679	3.679
Cd	4.14E-04	3.61E-04	7.71E-04	1.89E-03	X	8.59E-04	8.59E-04
Pb	3.96E-03	4.47E-03	1.02E-02	1.62E-02	X	8.71E-03	8.71E-03
Hg	6.59E-04	7.31E-04	6.35E-04	9.70E-04	X	7.49E-04	7.49E-04
HCl	19.77	7.870	17.227	16.930	18.627	16.085	16.085
CO	88.706	27.404	63.233	104.362	51.313	67.004	67.004
NO <sub>x</sub>	6.988	9.898	11.607	10.317	10.043	9.771	9.771
SO <sub>2</sub>	7.824	6.406	6.522	6.150	3.428	6.066	6.066
O <sub>2</sub> (%)	10.913	15.775	14.083	13.417	13.377	13.513	13.513
CO <sub>2</sub> (%)	8.863	4.480	6.067	6.713	6.820	6.589	6.589
H <sub>2</sub> O (%)	13.34	9.19	12.34	12.23	12.03	11.83	11.83
Opacity (%)	5.16	0.54	5.06	6.81	5.22	4.56	4.56
Grains/dscf**	0.0062	0.0023	0.0036	0.0047	0.0141	0.0062	0.0062
TSP Collection Eff. %	94.91%	98.83%	99.35%	98.51%	97.28%	97.78%	97.78%
Flow Rate (dscfm)**	9796	9227	10811	12763	12880	11095	11095
Stack Temp (F)	495.8	476.4	489.8	519.6	526.7	501.7	501.7

\* Each unit is rated at 75 tpd. Total plant capacity is 150 tpd. A unit consists of a MWC and an ESP. Both units vent to a common stack.

\*\* Corrected to 7% O<sub>2</sub>

**Table 4 of Subpart BBBB -- Model Rule -- Class II Emission Limits for Existing Small Municipal Waste Combustion Unit**  
 (a)

For the Following Pollutants	You must meet the following emission limits (b)	Using the following averaging times	And determine compliance by the following methods	Most Recent Data
1. Organics: Dioxins/Furans (total mass basis)	125 nanograms per dry standard cubic meter.	3-run average (minimum run duration is 4 hours).	Stack Test	CO2 (%) 6.589 lbs/hr (1996 stack test)
2. Metals: Cadmium	0.10 milligrams per dry standard cubic meter	3-run average (run duration specified in test method).	Stack Test	8.59E-04 lbs/hr (1996 stack test) .02066976 mg/dscm
Lead	1.6 milligrams per dry standard cubic meter	3-run average (run duration specified in test method).	Stack Test	8.71E-03 lbs/hr (1996 stack test) .20958516 mg/dscm
Mercury	.080 milligrams per dry standard cubic meter. 85 percent reduction of potential mercury emissions.	3-run average (run duration specified in test method).	Stack Test	45.85 gr/SCM Unit one 19.29 gr/SCM Unit two (2000 stack test) .04585000 mg/dscm (1) .01929000 mg/dscm (2)
Opacity	10 percent	Thirty 6-minute average	Stack Test	0.0% (2000 stack test)
Particulate Matter	70 milligrams per dry standard cubic meter.	3-run average (run duration specified in test method).	Stack Test	2.987 lbs/hr Unit one 2.473 lbs/hr Unit two (2000 stack test) 122.3902331 mg/dscm (1) 118.4731476 mg/dscm
3. Acid Gases: Hydrogen Chloride	250 parts per million by volume -or- 50 percent reduction of potential hydrogen chloride emissions.	3-run average (minimum run duration is 1 hour).	Stack Test	16.085 lbs/hr (1996 stack test) 256.00624 ppmvd
Sulfur Dioxide	77 parts per million by dry volume -or- 50 percent reduction of potential sulfur dioxides	24-hour daily block geometric average concentration -or- percent reduction	Continuous emission monitoring system	6.066 lbs/hr (1996 stack test) 54.94066 ppmvd

	emissions.			
4. Other: Fugitive Ash	Visible emissions for no more than 5 percent of hourly observation period.	Three 1-hour observation periods.	Visible emission test.	Pass (staff performed)

- a. Class I units mean all small municipal combustion units subject to this subpart that are located at municipal waste combustion plants with aggregate plant combustion capacity less than or equal to 250 tons per day of municipal solid waste. See Sec. 60.1940 for definitions.
- b. All emission limits (except for opacity) are measured at 7 percent oxygen.
- c. No monitoring, testing, recordkeeping or reporting is required to demonstrate compliance with the nitrogen oxides limit for Class II units.

**Table 5 of Subpart BBBB – Model Rule – Carbon Monoxide Emission Limits for Existing Small Municipal Waste Combustion Units**

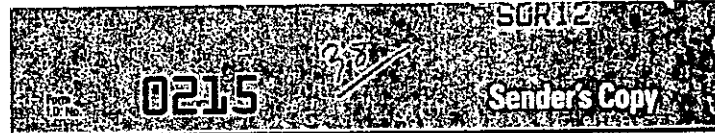
For the Following Municipal waste combustion units	You must meet the following carbon monoxide limits (a)	Using the following averaging times (b)	And determine compliance by the following methods	Most Recent Data
5. Mass burn rotary waterwall and refractory.	100 parts per million by dry volume	4-hour.		67.004 lbs/hr (1996 stack test) 1388.14161 ppmvd

\a) All emission limits (except for opacity) are measured at 7 percent oxygen. Compliance is determined by continuous emission monitoring systems.  
 \b) Block averages, arithmetic mean. See Sec. Y0.1940 for definitions.  
 \c) 24-hour block average, geometric mean.

**FedEx** USA Airbill  
Express

FedEx  
Tracking  
Number

8256 9486 7453



**1 From** Please print and press hard  
Date 10/17/01 Sender's FedEx Account Number 1844-8919-8

Sender's Name Katie Majocha Phone (305) 293-6409

Company CITY OF KEY WEST S W T E

Address 5701 COLLEGE RD

City KEY WEST State FL ZIP 33040

**2 Your Internal Billing Reference** OPTIONAL  
First 24 characters will appear on invoice.

**3 To** Recipient's Name Mr Venkata Panchakarla Phone ( )

Company Florida Department of Environmental Protection

Address Twin Towers Office Building

2600 Blair Stone Road

City Tallahasee State FL ZIP 32399-2400

**Peel and Stick FedEx USA Airbill**

See back for application instructions.

Questions? Visit our Web site at [www.fedex.com](http://www.fedex.com)  
or call 1-800-Go-FedEx® (800)463-3339.

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0167092784

**4a Express Package Service** Packages up to 150 lbs. Delivery commitment may be later in some areas.

- FedEx Priority Overnight Next business morning
  - FedEx Standard Overnight Next business afternoon
  - FedEx First Overnight Earliest next business morning delivery to select locations
  - FedEx 2Day\* Second business day
  - FedEx Express Saver\* Third business day
- \* FedEx Envelope/Letter Rate not available Minimum charge: One-pound rate

**4b Express Freight Service** Packages over 150 lbs. Delivery commitment may be later in some areas.

- FedEx 1Day Freight\* Next business day
- FedEx 2Day Freight Second business day
- FedEx 3Day Freight Third business day

\* Call for Confirmation: \_\_\_\_\_ \* Declared value limit \$500

**5 Packaging**

- FedEx Envelope/Letter\*
- FedEx Pak\*
- Other Pkg. Includes FedEx Box, FedEx Tube, and customer pkg.

**6 Special Handling**

- SATURDAY Delivery RESTRICTIONS Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- SUNDAY Delivery RESTRICTIONS Available only for FedEx Priority Overnight to select ZIP codes
- HOLD Weekday at FedEx Location RESTRICTIONS Not available with FedEx First Overnight
- HOLD Saturday at FedEx Location RESTRICTIONS Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods?  
 No  Yes One box must be checked.  
 No  Yes All per attached Shipper's Declaration  Shipper's Declaration not required

Dry Ice Dry Ice, 9 UN 1845 x \_\_\_\_\_ kg  
 Cargo Aircraft Only

Dangerous Goods cannot be shipped in FedEx packaging.

**7 Payment Bill to:** Enter FedEx Acct. No. or Credit Card No. below.

- Sender Acct. No. in Section 1 will be billed.
- Recipient
- Third Party
- Credit Card
- Cash/Check

FedEx Acct. No. Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value*
		\$ _____ .00

\* Our liability is limited to \$100 unless you declare a higher value. See back for details. FedEx Use Only

**8 Release Signature** Sign to authorize delivery without obtaining signature

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

402



September 26, 2001

THE CITY OF KEY WEST

P. O. BOX 1409  
KEY WEST, FLORIDA 33041-1409  
www.keywestcity.com

FILE COPY

Lawrence A. George  
Florida Department of Environmental Protection  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Re: Final Control Plan  
Monroe Co. – AP  
Southernmost Waste to Energy Facility  
Permit No. 0870047-001 AV

Mr. Lawrence George:

As per your letter dated June 21, 2001 this letter will serve as the City of Key West (City) Final Control Plan for the Southernmost Waste to Energy Facility located at 5701 College Road, Stock Island; Latitude 24\*34'42"N / Longitude 81\*44'49"W.

The City plans to comply with the Emission Guidelines for Small Municipal Waste Combustion Units (40 CFR 60 BBBB) on or before March 1, 2004.

This Final Control Plan will require a permit modification and a retrofit construction project of the existing pollution control equipment.

The City has already done extensive research into pollution control technologies and has been budgeting monies for retrofit design since 1997 in anticipation of adoption of new rules.

The City has chosen to eliminate the current pollution control technology (Electro Static Precipitators) and replace them with a dry hydrated lime and carbon flue gas scrubber system.

This system will include:

Evaporative Cooler Tower. This will be used to lower the flue gas temperature to make the hydrated lime more effective.

Hydrated Lime and Carbon Injection System. This will introduce the lime and carbon into the flue stream.

Pulse Jet Fabric Filter (Bag House). This will function as a particle collector and acid gas removal system.

Induced Draft Fan. It will be necessary to increase the size of the ID fans to allow for increased pressure drop caused by the bag house.

D1  
Detroit

Water Pumps. The pumps are to be variable speed, positive displacement type, to deliver water to the Evaporative Cooler Tower.

The system will have two of each of the above-mentioned devices (two trains) sharing one common stack (existing).

In addition to the above, the following sub-systems are required for each pollution control system.

- Structural Supports and Platforms
- Instrumentation and Controls
- Expansion Joints and Ductwork
- Compressor
- End Product Handling System (existing)
- One (1) common lime storage and delivery system
- One (1) common activated carbon storage and delivery system

The City has already approved the FY 02/03 budget to include the cost of this retrofit project. These budget amounts were obtained from several vendors of pollution control technology tasked by the City to provide a Budgetary Proposal with not to exceed estimates.

The following is an estimated time line for milestones for this project.

1. Have compliance stack test 2001 (for Title V permit) as well as data testing for all emissions that are to be regulated under the new rule on or before October 31, 2001.
2. Have design build RFP for pollution control retrofit issued and advertised on or before March 31, 2002.
3. Award design-build RFP on or before September 30, 2002.
4. Apply for all necessary construction permits and permit modifications on or before December 30, 2002.
5. Start site construction on or before May 31, 2003.
6. Startup system and test on or before December 1, 2003.
7. Be in operational compliance on or before March 1, 2004.

If you have any questions or need any further information, please contact my office.

Sincerely,



R.B. Havens  
Plant Manager  
Southernmost Waste-to-Energy Facility  
Ph: (305) 293-6409

cc: Venkata Panchakarla / FDEP Tallahassee  
Ronald Blackburn / FDEP Fort Meyers  
Jim Edds / FDEP Marathon

RH



**FedEx. USA Airbill**  
Express

1 From *Priority Mail Express*  
Date 10/21/02 Sender's FedEx Account Number 1844-8919-8  
Sender's Name B. B. Havens Phone (305) 293-6409

Company CITY OF KEY WEST S W T E  
Address 5701 COLLEGE RD

City KEY WEST State FL ZIP 33040

2 Your Internal Billing Reference OPTIONAL

3 To Recipient's Name Shaeill Culliver Phone 889.332.6975  
Company FDEP

Address 2295 Victoria Ave  
City FT. MYERS State FL ZIP 33901

Try online shipping at [fedex.com](http://fedex.com)

By using the Airbill you agree to the service conditions on the back of the Airbill and to our current Service Guide, including terms and conditions.

Directions? Visit our Web site at [fedex.com](http://fedex.com) or call 1.800.Go.FedEx.® 800.468.1333

0220530994

**Sender's Copy**

4a **Express Package Service**  
 FedEx Priority Overnight  
 FedEx Standard Overnight  
 FedEx 2Day  
 FedEx 2Day AM  
 FedEx Express Saver

4b **Express Freight Service**  
 FedEx 1Day Freight  
 FedEx 2Day Freight  
 FedEx 3Day Freight

5 **Packaging**  
 FedEx Envelope\*  
 FedEx Pak  
 Other

6 **Special Handling**  
 Fragile  
 Hazardous  
 High Value  
 Limited Access  
 Restricted Access  
 Signature Required  
 Signature Restricted  
 Signature Adult Only  
 Signature Restricted Adult Only  
 Signature Restricted Adult Only (18+)

7 **Payment**  
 Recipient  
 Third Party  
 Credit Card  
 Cash/Check

8 **Reference Signature**  
 Signature  
 Signature Restricted  
 Signature Adult Only  
 Signature Restricted Adult Only (18+)

Total Packages: 1 Total Weight: 20 Total Declared Value: \$

9 **Reference Signature**  
 Signature  
 Signature Restricted  
 Signature Adult Only  
 Signature Restricted Adult Only (18+)

10 **Reference Signature**  
 Signature  
 Signature Restricted  
 Signature Adult Only  
 Signature Restricted Adult Only (18+)

11 **Reference Signature**  
 Signature  
 Signature Restricted  
 Signature Adult Only  
 Signature Restricted Adult Only (18+)

12 **Reference Signature**  
 Signature  
 Signature Restricted  
 Signature Adult Only  
 Signature Restricted Adult Only (18+)

447

2003-01-27 10:56:00 AM 0220530994





# The City of Key West Southernmost Waste To Energy Facility

Phone: (305) 293-6409

Fax: (305) 293-6415

Date: 1/27/2003

To: Bruce Mitchell

Fax: (850) 922-6979

Re: Final Control Plan

Sender: Katy Boyer, Utilities Administrative Assistant

---

2

**You should receive ~~14~~ <sup>2</sup> page(s) including this cover.  
Please call Katy at (305) 293- 6409 if you do not receive all  
pages.**

---

*Bruce  
it pulled 2 pgs  
through at end  
this is 2nd pg  
of h. George letter*

Water Pumps. The pumps are to be variable speed, positive displacement type, to deliver water to the Evaporative Cooler Tower.

The system will have two of each of the above-mentioned devices (two trains) sharing one common stack (existing).

In addition to the above, the following sub-systems are required for each pollution control system.

- Structural Supports and Platforms
- Instrumentation and Controls
- Expansion Joints and Ductwork
- Compressor
- End Product Handling System (existing)
- One (1) common lime storage and delivery system
- One (1) common activated carbon storage and delivery system


The City has already approved the FY 02/03 budget to include the cost of this retrofit project. These budget amounts were obtained from several vendors of pollution control technology tasked by the City to provide a Budgetary Proposal with not to exceed estimates.

The following is an estimated time line for milestones for this project.

1. Have compliance stack test 2001 (for Title V permit) as well as data testing for all emissions that are to be regulated under the new rule on or before October 31, 2001.
2. Have design build RFP for pollution control retrofit issued and advertised on or before March 31, 2002.
3. Award design-build RFP on or before September 30, 2002.
4. Apply for all necessary construction permits and permit modifications on or before December 30, 2002.
5. Start site construction on or before May 31, 2003.
6. Startup system and test on or before December 1, 2003.
7. Be in operational compliance on or before March 1, 2004.

If you have any questions or need any further information, please contact my office.

Sincerely,



R.B. Havens  
Plant Manager  
Southernmost Waste-to-Energy Facility  
Ph: (305) 293-6409

cc: Venkata Panchakarla / FDEP Tallahassee  
Ronald Blackburn / FDEP Fort Meyers  
Jim Edds / FDEP Marathon

RH

## Source Inventory

The two sources in Florida that are subject to 40 CFR 60, Subpart BBBB, are the following. Both sources have valid air operating permits. Each facility has two SMWC units.

1. Bay County Resource Recovery Facility, Panama City (Class I).
2. Southernmost Waste-to-Energy Facility, City of Key West (Class II).

## Compliance Schedules and Increments of Progress

All affected SMWCUs shall comply with all the requirements of Rule 62-204.800(8)(e), F.A.C., and achieve final compliance or cease operation as expeditiously as practicable but not later than the earlier of (1) December 6, 2005, or (2) three years after the effective date of State Plan approval by the EPA. The individual compliance schedules for meeting increments of progress and achieving final compliance, as outlined in each facility's final control plan, are given below.

**Table 1. Increments of Progress**

Increments of Progress	Source	
	Bay County	Southernmost
Submit Final Control Plan	09/30/01	09/30/01
Award Contracts	05/01/04	09/30/02
Begin Onsite Construction	06/01/04	05/31/03
Complete Onsite Construction	07/15/05	12/01/03
Achieve Final Compliance	11/15/05	03/01/04

## Emissions Limits and Inventory

Table 2 is a summary list of the applicable emission limiting standards for all SMWCUs subject to 40 CFR 60, Subpart BBBB.

**STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
PROPOSED SECTION 111(d) STATE PLAN**



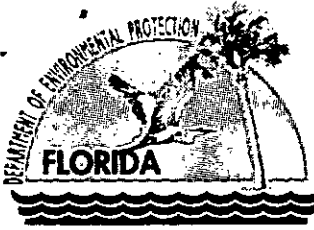
**SMALL MUNICIPAL WASTE COMBUSTION UNITS  
November 29, 2001**

*Florida Department of Environmental Protection • Division of Air Resources Management  
2600 Blair Stone Road • MS 5500  
Tallahassee, Florida 32399-2400 • (850) 488-0114*

City of Key West  
Southernmost Waste To Energy Facility  
**Facility ID No.:** 0870047  
Monroe County  
Initial Title V Air Operation Permit  
**FINAL Permit No.:** 0870047-001-AV

Permitting Authority:  
State of Florida  
Department of Environmental Protection  
Division of Air Resources Management  
Bureau of Air Regulation  
Title V Section  
Mail Station #5505  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400  
Telephone: 850/488-1344  
Fax: 850/922-6979

Compliance Authority:  
South District Office  
2295 Victoria Avenue, Suite 364  
Fort Myers, FL 33902-2549  
Telephone: 941/332-6975  
Fax: 941/332-6969



# Department of Environmental Protection

Jeb Bush  
Governor

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

David B. Struhs  
Secretary

**Permittee:**

City of Key West  
P.O. Box 1409  
Key West, Florida 33041-1409

**FINAL Permit No.:** 0870047-001-AV

**Facility ID No.:** 0870047

**SIC No.:** 49; 4953

**Project:** Initial Title V Air Operation

This permit is for the operation of the City of Key West, Southernmost Waste To Energy Facility. This facility is located at 5701 West Junior College Road, Key West, Monroe County; UTM Coordinates: Zone 17, 424.37 km East and 2718.46 km North; Latitude: 24° 34' 42" North and Longitude: 81° 44' 49" West.

**STATEMENT OF BASIS:** This Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-4, 62-210 and 62-213, F.A.C. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

**Referenced Attachments made a part of this permit:**

Appendix U-1, List of Unregulated Emissions Units and/or Activities

Appendix I-1, List of Insignificant Emissions Units and/or Activities

APPENDIX TV-1, TITLE V CONDITIONS (version dated 12/02/97)

APPENDIX SS-1, STACK SAMPLING FACILITIES (version dated 10/07/96)

TABLE 297.310-1, CALIBRATION SCHEDULE

FIGURE 1 - SUMMARY REPORT-GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE REPORT (version dated 7/96)

APPENDIX 40 CFR 60, SUBPART A (40 CFR 60; July 1997)

**Effective Date:** 05/31/99

**Renewal Application Due Date:** 12/03/03

**Expiration Date:** 05/31/04

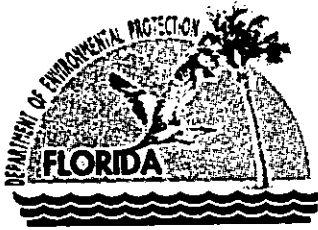
---

Howard L. Rhodes, Director  
Division of Air Resource Management

HLR/sms/mpb

*"More Protection, Less Process"*

*Printed on recycled paper.*



Jeb Bush  
Governor

# Department of Environmental Protection

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

David B. Struhs  
Secretary

August 29, 2002

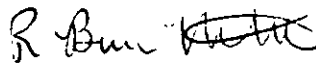
Mr. E. David Fernandez  
Utility Director  
City of Key West  
Southernmost Waste-to-Energy Facility  
P. O. Box 1409  
Key West, Florida 33041-1409

Re: Section 111(d) Compliance Schedule Progress

Dear Mr. Fernandez:

Please refer to the attached Compliance Schedule that applies to the municipal waste combustion units at your facility (ID. No. 0870047). This Compliance Schedule is a requirement of Rule 62-204.800(8)(e), F.A.C. The first Increment of Progress scheduled event, Submit Final Control Plan, was due on September 30, 2001. Please provide us a copy of this Final Control Plan submission as soon as possible.

Sincerely,

  
for Scott M. Sheplak, P.E.  
Administrator  
Title V Section

Attachment

"More Protection, Less Process"

Printed on recycled paper.

*Mike Halpern*

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**NOTICE OF FINAL PERMIT**

In the Matter of an  
Application for Permit by:

Mr. E. David Fernandez  
Utilities Director  
P.O. Box 1409  
Key West, Florida 33041-1409

FINAL Permit No.: 0870047-001-AV  
City of Key West  
Southernmost Waste To Energy Facility

Enclosed is FINAL Permit Number 0870047-001-AV for the operation of the Southernmost Waste To Energy Facility located at 5701 West Junior College Road, Key West, Monroe County, issued pursuant to Chapter 403, Florida Statutes (F.S.).

Any party to this order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the permitting authority in the Legal Office; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 (thirty) days from the date this Notice is filed with the Clerk of the permitting authority.

Executed in Tallahassee, Florida.

*C. H. Fancy*

C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF FINAL PERMIT (including the FINAL permit) was sent by certified mail (\*) and copies were mailed by U.S. Mail before the close of business on 6/15/99 to the person(s) listed or as otherwise noted:

Mr. E. David Fernandez, City of Key West  
Ms. Marie Whitman, P.E.  
Mr. Phil Barbaccia, P.E., DEP/SD  
Ms. Carla E. Pierce, USEPA, Region 4 (INTERNET E-mail Memorandum)  
Ms. Gracy R. Danois, USEPA, Region 4 (INTERNET E-mail Memorandum)

Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED**, on  
this date, pursuant to Section 120.52(7), Florida Statutes,  
with the designated agency Clerk, receipt of which is hereby  
acknowledged.

*Barbara J. Boutwell* 6/15/99  
(Clerk) (Date)



# STATEMENT OF BASIS

Title V FINAL Permit No.: 0870047-001-AV  
City of Key West  
Southernmost Waste To Energy Facility  
Monroe County

This Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-4, 62-210 and 62-213, F.A.C. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

The facility (SWTEF) consists of two identical municipal solid waste combustors (Combustor Nos. 1 and 2); an approximately twenty acre municipal solid waste landfill which is no longer accepting waste; storage and handling facilities for ash; oil storage tanks; cooling tower; and ancillary support equipment. Also, included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

Municipal Solid Waste Combustor Nos. 1 and 2 are mass-fired waterwall boilers. Steam from these boilers is utilized in the generation of electrical energy (4 MWe per generator). The emissions units are fired on mixed municipal waste only. There are electrostatic precipitators on these emissions units with design control efficiencies of 97.7%. The combustion gases exhaust through a single stack of 140 feet. Both units began commercial operation in 1987. These emissions units are regulated under 40 CFR 60, Subpart E, Standards of Performance for Incinerators.

Contiguous to the facility is an approximately 20 acre landfill which is no longer accepting waste. Landfill gas is emitted through passive gas vents spaced at approximately 100-200 ft. intervals. Landfilling with municipal waste began approximately in the mid 1940's, however when the SWTEF became operational in 1987, ash became the only material landfilled. Closures were made in two phases in 1991 and 1996. Based upon documentation submitted by the application, NMOC emissions from this landfill are minimal and this emissions unit is considered as insignificant.

Based on the initial Title V permit application received June 12, 1996, this facility is a major source of hazardous air pollutants (HAPs).

City of Key West  
Southernmost Waste To Energy Facility  
**Facility ID No.:** 0870047  
Monroe County  
Initial Title V Air Operation Permit  
**FINAL Permit No.:** 0870047-001-AV

Permitting Authority:

State of Florida  
Department of Environmental Protection  
Division of Air Resources Management  
Bureau of Air Regulation  
Title V Section  
Mail Station #5505  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400  
Telephone: 850/488-1344  
Fax: 850/922-6979

Compliance Authority:

South District Office  
2295 Victoria Avenue, Suite 364  
Fort Myers, FL 33902-2549  
Telephone: 941/332-6975  
Fax: 941/332-6969



Jeb Bush  
Governor

# Department of Environmental Protection

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

David B. Struhs  
Secretary

**Permittee:**  
City of Key West  
P.O. Box 1409  
Key West, Florida 33041-1409

**FINAL Permit No.:** 0870047-001-AV  
**Facility ID No.:** 0870047  
**SIC No.:** 49; 4953  
**Project:** Initial Title V Air Operation

This permit is for the operation of the City of Key West, Southernmost Waste To Energy Facility. This facility is located at 5701 West Junior College Road, Key West, Monroe County; UTM Coordinates: Zone 17, 424.37 km East and 2718.46 km North; Latitude: 24° 34' 42" North and Longitude: 81° 44' 49" West.

**STATEMENT OF BASIS:** This Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-4, 62-210 and 62-213, F.A.C. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

**Referenced Attachments made a part of this permit:**

Appendix U-1, List of Unregulated Emissions Units and/or Activities  
Appendix I-1, List of Insignificant Emissions Units and/or Activities  
APPENDIX TV-1, TITLE V CONDITIONS (version dated 12/02/97)  
APPENDIX SS-1, STACK SAMPLING FACILITIES (version dated 10/07/96)  
TABLE 297.310-1, CALIBRATION SCHEDULE  
FIGURE 1 - SUMMARY REPORT-GASEOUS AND OPACITY EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE REPORT (version dated 7/96)  
APPENDIX 40 CFR 60, SUBPART A (40 CFR 60; July 1997)

**Effective Date:** 05/31/99  
**Renewal Application Due Date:** 12/03/03  
**Expiration Date:** 05/31/04

Howard L. Rhodes, Director  
Division of Air Resource Management

HLR/sms/mpb

Initial Title V Air Operation Permit  
FINAL Permit No.: 0870047-001-AV

**TABLE OF CONTENTS**

<b>Section</b>	<b>Page Number</b>
Placard Page .....	1
I. Facility Information .....	2
A. Facility Description.	
B. Summary of Emissions Unit ID No(s). and Brief Description(s).	
C. Relevant Documents.	
II. Facility-wide Conditions .....	3
III. Emissions Unit(s) and Conditions	
A. Emission Unit 001, Municipal Solid Waste Combustor No. 1 .....	5
Emission Unit 002, Municipal Solid Waste Combustor No. 2	
B. Common Conditions .....	8

**Section I. Facility Information.**

**Subsection A. Facility Description.**

This facility consists of two identical municipal solid waste combustors (Unit Nos. 1 and 2) which are mass-fired waterwall boilers; an approximately twenty acre municipal solid waste landfill is contiguous (although it is no longer accepting waste); storage and handling facilities for ash; oil storage tanks; cooling tower; and ancillary support equipment. Also, included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities. Based on the initial Title V permit application received June 12, 1996, this facility is a major source of hazardous air pollutants (HAPs).

**Subsection B. Summary of Emissions Unit ID Nos. and Brief Descriptions.**

<b>E.U. ID Nos.</b>	<b>Brief Description</b>
001	Municipal Waste Combustor No. 1
002	Municipal Waste Combustor No. 2

**Unregulated Emissions Units and/or Activities**

<b>E.U. ID No.</b>	<b>Brief Description</b>
xxx	See Appendix U-1, List of Unregulated Emissions Units and/or Activities.

*Please reference the Permit No., Facility ID No., and Appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, Applications, etc.*

**Subsection C. Relevant Documents.**

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

These documents are provided to the permittee for information purposes only:

Table 1, Summary of Air Pollutant Standards and Terms.

Table 2, Summary of Compliance Requirements.

Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers (version dated 2/05/97).

Appendix H-1, Permit History/ID Number Changes.

These documents are on file with the permitting authority:

Initial Title V Permit Application received June 12, 1996.

Initial Design Capacity Report for Landfill received February, 1999.

## Section II. Facility-wide Conditions.

The following Conditions apply facility-wide:

1. APPENDIX TV-1, TITLE V CONDITIONS, is a part of this permit.  
{Permitting note: APPENDIX TV-1, TITLE V CONDITIONS, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided a copy when requested or otherwise appropriate.}
2. **Not federally enforceable. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited.** No person shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.  
[Rule 62-296.320(2), F.A.C.]
3. **General Particulate Emission Limiting Standards. General Visible Emissions Standard.** Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.  
[Rules 62-296.320(4)(b)1. & 4., F.A.C.]
4. **Prevention of Accidental Releases (Section 112(r) of CAA).** If required by 40 CFR 68, the permittee shall submit to the implementing agency:
  - a. a risk management plan (RMP) when, and if, such requirement becomes applicable; and,
  - b. certification forms and/or RMPs according to the promulgated rule schedule.[40 CFR 68]
5. **Unregulated Emissions Units and/or Activities.** Appendix U-1, List of Unregulated Emissions Units and/or Activities, is a part of this permit.  
[Rule 62-213.440(1), F.A.C.]
6. **Insignificant Units and/or Activities.** Appendix I-1, List of Insignificant Emissions Units and/or Activities, is a part of this permit.  
[Rules 62-213.440(1), 62-213.430(6) and 62-4.040(1)(b), F.A.C.]
7. **General Pollutant Emission Limiting Standards. Volatile Organic Compounds Emissions or Organic Solvents Emissions.** The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.  
[Rule 62-296.320(1)(a), F.A.C.]

{Permitting Note: The Department has not ordered any control devices or systems under the referenced rule}.

8. **Not federally enforceable. Reasonable Precautions.** The following techniques shall be used to control unconfined particulate matter emissions on an as needed basis:

- a. Chemical or water application to unpaved road and unpaved yard and landfill areas;
- b. Paving and maintenance of roads, parking areas and yards;
- c. Landscaping or planting of vegetation; and
- d. Confining abrasive blasting where possible and appropriate.

[Rule 62-296.320(4)(c)2., F.A.C.]

{Note: This condition implements the requirements of Rule 62-296.320(4)(c)1., 3., & 4. F.A.C. (Appendix TV-1, Title V Conditions, Condition No. 58)}

9. When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.

[Rule 62-213.440, F.A.C.]

10. The permittee shall submit all compliance related notifications and reports required of this permit to the Department's South District office:

Department of Environmental Protection  
South District Office  
2295 Victoria Avenue, Suite 364  
Fort Myers, FL 33902-2549  
Telephone: 941/332-6975  
Fax: 941/332-6969

and

Department of Environmental Protection  
South District Branch Office  
2796 Overseas Highway, Suite 221  
Marathon, FL 33050  
Telephone: 305/289-2310

12. Any reports, data, notifications, certifications, and requests required to be sent to the United States Environmental Protection Agency, Region 4, should be sent to:

United States Environmental Protection Agency  
Region 4  
Air, Pesticides & Toxics Management Division  
Air and EPCRA Enforcement Branch, Air Enforcement Section  
61 Forsyth Street  
Atlanta, Georgia 30303  
Telephone: 404/562-9155  
Fax: 404/562-9164

**Section III. Emissions Unit(s) and Conditions.**

**Subsection A. This section addresses the following emissions units.**

<b>E.U. ID No.</b>	<b>Brief Description</b>
001	Municipal Solid Waste Combustor No. 1
002	Municipal Solid Waste Combustor No. 2

These emission units are solid waste combustors and are designated as Combustor Nos. 1 and 2. They are custom-built units by Montenay International Corporation and each is rated at a maximum of 6250 pounds per hour (75 TPD or 68 megagrams/day) of mixed municipal solid waste (per unit). Emissions from the combustors are controlled by electrostatic precipitators and combustion controls. Odor is controlled by drawing combustion air from the refuse area. The combustors share a stack. Combustor Nos. 1 and 2 began commercial operation in 1987.

{Permitting notes: These emissions units are regulated under Rules 62-210.300, Permits Required, and 62-204.800(7)(b)5, F.A.C. These emissions units are subject to 40 CFR 60, Subpart E, Standards of Performance for Incinerators. Each combustor's exhaust is ducted to a Belco Model RE19 electrostatic precipitator (ESP), after which each ESP exhausts to a common 140 ft. high stack.}

**The following specific Conditions apply to the emissions units listed above:**

**Essential Potential to Emit (PTE) Parameters**

**A.1. Permitted Capacity.** The maximum input rate (operation rate) is as follows:

<b>E.U. ID No.</b>	<b>Pounds per hour</b>	<b>Fuel Type</b>
001	6250	Mixed municipal waste
002	6250	Mixed municipal waste

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

{Permitting note: The heat input limitations have been placed in each permit to identify the capacity of each emissions unit for purposes of confirming that emissions testing is conducted within 90-100 percent of the emissions unit's rated capacity (or to limit future operation to 110 percent of the test load), to establish appropriate limits and to aid in determining future rule applicability.}

**A.2. Emissions Unit Operating Rate Limitation After Testing.** See Specific Condition **A.12.**  
[Rule 62-297.310(2), F.A.C.]

**A.3. Methods of Operation - Fuels.** Only mixed municipal solid waste shall be fired in the combustors. The daily charging rates shall be recorded. These incinerators shall not be used for the disposal of radioactive materials.  
[Rule 62-213.410(1), F.A.C., 40 CFR 60.53(a), and AO44-207778 and AO44-207781]

**A.4. Hours of Operation.** These emission units may operate continuously, i.e., 8,760 hours/year. The hours of operation shall be recorded.  
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C., 40 CFR 60.53(a)]



**A.5. Sootblowing permitted.** The permittee may manually soot blow with compressed air in each of the external boiler soot ports in lieu of automatically soot blowing with steam. The permittee shall maintain at the facility a copy of the current procedure for manually soot blowing.  
[Rule 62-4.070(3), F.A.C.]

### **Emission Limitations and Standards**

{Permitting Note: The attached Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purpose only. This table does not supersede any of the terms or conditions of this permit.}

**A.6. Visible Emissions.** No visible emissions (5 percent opacity) are allowed from these emission units except that visible emissions not exceeding 20 percent opacity are allowed for up to three (3) minutes in any one hour period.  
[Rule 62-296.401, F.A.C.]

**A.7. Particulate Matter Emissions.** Particulate matter emissions shall not exceed 0.08 gr./dscf corrected to 12% carbon dioxide.  
[40 CFR 60.52(a)]

**A.8. Dust, odor and run-off.** This facility shall be operated in such a fashion to preclude objectionable odors. All fugitive dust at this site shall be adequately controlled. There shall be no discharges of liquid effluents or contaminated run-off from the plant site. The applicant shall comply with all provisions of the solid waste rules applicable to ash disposal.  
[AO44-207778 and AO44-207781]

### **Excess Emissions**

{Permitting note: The Excess Emissions Rule at Rule 62-210.700, F.A.C., cannot vary any requirement of an NSPS or NESHAP provision.}

**A.9.** Excess emissions resulting from malfunction, startup or shutdown shall be permitted providing:  
(1) best operational practices to minimize emissions are adhered to and  
(2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration.  
[Rule 62-210.700(1), F.A.C.]

**A.10.** Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited.  
[Rule 62-210.700(4), F.A.C.]

### **Test Methods and Procedures**

{Permitting Note: The attached Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

**A.11.** These combustors are regulated individually and must be tested individually. Due to the common stack, one unit must be shut down while the other unit is being tested.  
[Rules 62-4.070(3) and 62-213.440(1), F.A.C.]

**A.12.** The test method for visible emissions shall be EPA Method 9, as published in 40 CFR-60, Appendix A, or State approved equivalent method. The test method for particulate emissions shall be EPA Method 5 as published in 40 CFR-60, Appendix A, or State approved equivalent method.  
[Rules 62-296.401.(1)(c) , 62-297.401, F.A.C., AO44-207778 and AO44-207781]

**A.13. Operating Rate During Testing.** Testing of emissions shall be conducted with the emissions unit operating at permitted capacity. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity (i.e., at less than 90 percent of the maximum operation rate allowed by the permit); in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.  
[Rules 62-297.310(2) & (2)(b), F.A.C.]

### **Recordkeeping and Reporting Requirements**

**A.14. Malfunction Reporting.** In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department's South District office in accordance with Appendix TV-1, Title V Condition No. 9. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department.  
[Rule 62-210.700(6), F.A.C.]

**A.15. Test Reports.**

- (a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department's South District office on the results of each such test.
  - (b) The required test report shall be filed with the Department's South District office as soon as practical but no later than 45 days after the last sampling run of each test is completed.
  - (c) Notification and reporting requirements of this permit shall also be sent to the Marathon DEP office.
  - (d) Reporting shall comply with Common Condition B.9.
- [Rule 62-297.310(8), F.A.C., AO44-207778 and AO44-207781]

**Subsection B. Common Conditions.**

<b>E.U. ID No.</b>	<b>Brief Description</b>
001	Municipal Solid Waste Combustor No. 1
002	Municipal Solid Waste Combustor No. 2

The following Conditions apply to the emissions unit(s)/activities listed above:

**Essential Potential to Emit (PTE) Parameters**

**B.1. Hours of Operation.** The emissions units may operate continuously, i.e., 8,760 hours/year.  
[Rule 62-210.200(PTE), F.A.C.]

**Monitoring of Operations**

**B.2. Determination of Process Variables.**

(a) Required Equipment. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

(b) Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

[Rule 62-297.310(5), F.A.C.]

**Test Methods and Procedures**

{Permitting Note: The attached Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

**B.3. Frequency of Compliance Tests.** The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.

(a) General Compliance Testing.

3. Except as otherwise specified in an applicable subsection, the owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:

- a. Did not operate; or
- b. In the case of a fuel burning emissions unit, burned liquid fuel for a total of no more than 400 hours.

4. During each federal fiscal year (October 1 -- September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:

- a. Visible emissions, if there is an applicable standard;
- b. Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits

or has the potential to emit: 5 tons per year or more of lead or lead compounds measured as elemental lead; 30 tons per year or more of acrylonitrile; or 100 tons per year or more of any other regulated air pollutant; and

5. An annual compliance test for particulate matter emissions shall not be required for any fuel burning emissions unit that, in a federal fiscal year, does not burn liquid and/or solid fuel, other than during startup, for a total of more than 400 hours.

8. Any combustion turbine that does not operate for more than 400 hours per year shall conduct a visible emissions compliance test once per each five-year period, coinciding with the term of its air operation permit.

9. The owner or operator shall notify the Department's South District office, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

(b) Special Compliance Tests. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.

(c) Waiver of Compliance Test Requirements. If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply.  
[Rule 62-297.310(7), F.A.C.; and, SIP approved]

**B.4. Required Number of Test Runs**. For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five day period allowed for the test, the Secretary or his or her designee may accept the results of the two complete runs as proof of compliance.  
[Rule 62-297.310(1), F.A.C. and 40 CFR 60.8]

**B.5. Calculation of Emission Rate**. The indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the three separate test runs unless otherwise specified in a particular test method or applicable rule.  
[Rule 62-297.310(3), F.A.C.]

**B.6. Applicable Test Procedures.**

**(a) Required Sampling Time.**

1. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes.

2. Opacity Compliance Tests. When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.

Exceptions to these requirements are as follows:

c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.

(b) Minimum Sample Volume. Unless otherwise specified in the applicable rule, the minimum sample volume per run shall be 25 dry standard cubic feet.

(c) Required Flow Rate Range. For EPA Method 5 particulate sampling, acid mist/sulfur dioxide, and fluoride sampling which uses Greenburg Smith type impingers, the sampling nozzle and sampling time shall be selected such that the average sampling rate will be between 0.5 and 1.0 actual cubic feet per minute, and the required minimum sampling volume will be obtained.

(d) Calibration of Sampling Equipment. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1.

(e) Allowed Modification to EPA Method 5. When EPA Method 5 is required, the following modification is allowed: the heated filter may be separated from the impingers by a flexible tube.

[Rule 62-297.310(4), F.A.C.]

**B.7. Required Stack Sampling Facilities.** When a mass emissions stack test is required, the permittee shall comply with the requirements contained in Appendix SS-1, Stack Sampling Facilities (version dated 10/07/96), attached to this permit.

[Rule 62-297.310(6), F.A.C.]

**Record Keeping and Reporting Requirements**

**B.8. Malfunctions - Notification.** In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department's South District office in accordance with Appendix TV-1, Title V Condition No. 9, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department's South District office.

[Rule 62-210.700(6), F.A.C.]

**B.9. Test Reports.** The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department's South District office to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:

1. The type, location, and designation of the emissions unit tested.
2. The facility at which the emissions unit is located.
3. The owner or operator of the emissions unit.

4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
8. The date, starting time and duration of each sampling run.
9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
10. The number of points sampled and configuration and location of the sampling plane.
11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
12. The type, manufacturer and configuration of the sampling equipment used.
13. Data related to the required calibration of the test equipment.
14. Data on the identification, processing and weights of all filters used.
15. Data on the types and amounts of any chemical solutions used.
16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
18. All measured and calculated data required to be determined by each applicable test procedure for each run.
19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
20. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.
21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

[Rules 62-213.440 and 62-297.310(8), F.A.C.]

**B.10. Acid Rain Part Application.** For any unit which was a solid waste incinerator, burning less than 20 percent fossil fuel as described in 40 CFR 72.6(b)(7), adopted and incorporated by reference at Rule 62-204.800, F.A.C. the designated representative of the source containing the unit shall submit a complete Acid Rain Part application governing such unit to the Department before the later of January 1, 1998, or March 1 of the year following the three calendar year period in which the incinerator consumed 20 percent or more fossil fuel on a British thermal unit (BTU) basis.

[Chapter 62-214.320(1)(h), F.A.C.]

**B.11.** The permittee shall comply with the requirements contained in Appendix 40 CFR 60, Subpart A, attached to this permit.

[Rule 62-204.800(7)(d), F.A.C.]

**Appendix H-1, Permit History/ID Number Changes**

City of Key West  
Southernmost Waste To Energy Facility

FINAL Permit No.: 0870047-001-AV  
Facility ID No.: 0870047

**Permit History (for tracking purposes):**

E.U.	ID No	Description	Permit No.	Issue Date	Expiration Date	Extended Date <sup>1,2</sup>
	-001	Municipal Waste Combustor No. 1	AO44-207778	04/03/92	04/01/97	
	-002	Municipal Waste Combustor No. 2	AO44-207781	04/03/92	04/01/97	
	-001	MWC No.1 Soot Blowing Mod	0870047-002-AC	12/04/98		
	-002	MWC No.2 Soot Blowing Mod	0870047-002-AC	12/04/98		

**(if applicable) ID Number Changes (for tracking purposes):**

From: Facility ID No.: 52FTM44004702  
To: Facility ID No.: 0870047

**Notes:**

- 1 - AO permit(s) automatic extension(s) in Rule 62-210.300(2)(a)3.a., F.A.C., effective 03/21/96.
  - 2 - AC permit(s) automatic extension(s) in Rule 62-213.420(1)(a)4., F.A.C., effective 03/20/96.
- {Rule 62-213.420(1)(b)2., F.A.C., allows Title V Sources to operate under existing valid permits that were in effect at the time of application until the Title V permit becomes effective}

**Table 1, Summary of Air Pollutant Standards and Terms**

City of Key West  
Southernmost Waste To Energy Facility

FINAL Permit No.: 0870047-001-AV  
Facility ID No.: 0870047

**E.U. ID Nos. Brief Description**

-001		Solid Waste Combustor Unit #1			Allowable Emissions			Equivalent Emissions		
Pollutant Name	Fuel(s) *	Hours/ Year *	Standards	lb/ hour	TPY	lb/hour **	TPY **	Regulatory Citation(s)	See Permit Condition(s)	
PM Emissions	Mixed municipal waste	8760	0.08 gr/dscf			7.60	33.26	AO44-207778 40 CFR 60.52(a)	A.7.	
Visible Emissions	Mixed municipal waste	8760	5% Opacity					AO44-207778 Rule 62-296.401, F.A.C.	A.6.	

-002		Solid Waste Combustor Unit #2			Allowable Emissions			Equivalent Emissions		
Pollutant Name	Fuel(s) *	Hours/ Year *	Standards	lb/ hour	TPY	lb/hour **	TPY **	Regulatory Citation(s)	See Permit Condition(s)	
PM Emissions	Mixed municipal waste	8760	0.08 gr/dscf			7.60	33.26	AO44-207781 40 CFR 60.52(a)	A.7.	
Visible Emissions	Mixed municipal waste	8760	5% Opacity					AO44-207781 Rule 62-296.401, F.A.C.	A.6.	

\*\* The "Equivalent Emissions" listed are for informational purposes only.  
This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.



**Table 2, Summary of Compliance Requirements**

City of Key West  
Southernmost Waste To Energy Facility

FINAL Permit No.: 0870047-001-AV  
Facility ID No.: 0870047

E.U. #-001	Municipal Solid Waste Combustor #1
------------	------------------------------------

Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time or Frequency	Frequency Base Date <sup>1</sup>	Min. Compliance Test Time	CMS <sup>2</sup>	See Permit Condition(s)
PM1 Emissions	Mixed municipal waste	EPA Method 5	Annual	N/A	6 hours	No	A.11., A.12.
Visible Emissions	Mixed municipal waste	EPA Method 9	Annual	N/A	1 hour	No	A.11., A.12.

E.U. #-002	Municipal Solid Waste Combustor #2
------------	------------------------------------

Pollutant Name or Parameter	Fuel(s)	Compliance Method	Testing Time or Frequency	Frequency Base Date <sup>1</sup>	Min. Compliance Test Time	CMS <sup>2</sup>	See Permit Condition(s)
PM1 Emissions	Mixed municipal waste	EPA Method 5	Annual	N/A	6 hours	No	A.11., A.12.
Visible Emissions	Mixed municipal waste	EPA Method 9	Annual	N/A	1 hour	No	A.11., A.12.

1 - Frequency base date established for planning purposes only; see Rule 62-297.310, F.A.C.  
2 - Continuous Monitoring System.

These tables summarize information for convenience purposes only. These tables do not supersede any of the terms or conditions of this permit.

**Appendix U-1. List of Unregulated Emissions Units and/or Activities.**

Unregulated Emissions Units and/or Activities. An emissions unit which emits no “emissions-limited pollutant” and which is subject to no unit-specific work practice standard, though it may be subject to regulations applied on a facility-wide basis (e.g., unconfined emissions, odor, general opacity) or to regulations that require only that it be able to prove exemption from unit-specific emissions or work practice standards.

The below listed emissions units and/or activities are neither ‘regulated emissions units’ nor ‘insignificant emissions units’.

<b>Emissions Unit</b>	<b>Description</b>
-xxx	Surface Coating and Solvent Cleaning
-xxx	General Purpose Engines
-xxx	Fuel Storage Tanks
-xxx	Helper Cooling Towers
-xxx	Emergency Generators

**Appendix I-1, List of Insignificant Emissions Units and/or Activities.**

The facilities, emissions units, or pollutant-emitting activities listed in Rule 62-210.300(3)(a), F.A.C., Categorical Exemptions, are exempt from the permitting requirements of Chapters 62-210 and 62-4, F.A.C.; provided, however, that exempt emissions units shall be subject to any applicable emission limiting standards and the emissions from exempt emissions units or activities shall be considered in determining the potential emissions of the facility containing such emissions units. Emissions units and pollutant-emitting activities exempt from permitting under Rule 62-210.300(3)(a), F.A.C., shall not be exempt from the permitting requirements of Chapter 62-213, F.A.C., if they are contained within a Title V source; however, such emissions units and activities shall be considered insignificant for Title V purposes provided they also meet the criteria of Rule 62-213.430(6)(b), F.A.C. No emissions unit shall be entitled to an exemption from permitting under Rule 62.210.300(3)(a), F.A.C., if its emissions, in combination with the emissions of other units and activities at the facility, would cause the facility to emit or have the potential to emit any pollutant in such amount as to make the facility a Title V source.

The below listed emissions units and/or activities are considered insignificant pursuant to Rule 62-213.430(6), F.A.C.

3	Closed Landfill
4	Ash handling and transfer activities
5	Recyclable handling and processing activities

**APPENDIX 40 CFR 60 Subpart A - General Provisions**  
**(version dated 07/01/97)**

**Quarterly Report.** The Permittee shall submit a quarterly excess emissions and monitoring systems performance report. All reports shall be postmarked by the 30th day following the end of each calendar half (or quarter, as appropriate). Written reports of excess emissions shall include the following information:

1. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period.

2. Specific identification of each period of excess emissions that occurs during startups, shutdowns and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted.

3. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments.

4. When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report.

[40 CFR 60.7(c)]

**Summary Report.** The summary report form shall contain the information and be in the format shown in Figure 1 (attached) unless otherwise specified by the Department. One summary report form shall be submitted for each pollutant monitored.

1. If the total duration of excess emissions for the reporting period is less than one percent of the operating time for the reporting period and CMS downtime for the reporting period is less than five percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in 40 CFR 60.7(c) need not be submitted unless requested by the Department.

2. If the total duration of excess emissions for the reporting period is one percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is five percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in 40 CFR 60.7(c) shall both be submitted.

*{See attached Figure 1: Summary Report-Gaseous and Opacity Excess Emission and Monitoring System Performance} (electronic file name: figure1.doc)*

[40 CFR 60.7(d)]

**Reporting Frequency.** (1) Notwithstanding the frequency of reporting requirements specified in 40 CFR 60.7(c), an owner or operator who is required by an applicable subpart to submit excess emissions and monitoring systems performance reports (and summary reports) on a quarterly (or more frequent) basis may reduce the frequency of reporting for that standard to semiannual if the following conditions are met:

(i) For 1 full year (e.g., 4 quarterly or 12 monthly reporting periods) the affected facility's excess emissions and monitoring systems reports submitted to comply with a standard under 40 CFR 60 continually demonstrate that the facility is in compliance with the applicable standard;

(ii) The owner or operator continues to comply with all recordkeeping and monitoring requirements specified in 40 CFR 60, Subpart A, and the applicable standard; and

**APPENDIX 40 CFR 60 Subpart A - General Provisions**  
**(version dated 07/01/97)**

(iii) The Department does not object to a reduced frequency of reporting for the affected facility, as provided in 40 CFR 60.7(e)(2).

(2) The frequency of reporting of excess emissions and monitoring systems performance (and summary) reports may be reduced only after the owner or operator notifies the Department in writing of his or her intention to make such a change and the Department does not object to the intended change. In deciding whether to approve a reduced frequency of reporting, the Department may review information concerning the source's entire previous performance history during the required recordkeeping period prior to the intended change, including performance test results, monitoring data, and evaluations of an owner or operator's conformance with operation and maintenance requirements. Such information may be used by the Department to make a judgment about the source's potential for noncompliance in the future. If the Department disapproves the Permittee's request to reduce the frequency of reporting, the Department will notify the Permittee in writing within 45 days after receiving notice of the owner or operator's intention. The notification from the Department to the Permittee will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.

(3) As soon as monitoring data indicate that the affected facility is not in compliance with any emission limitation or operating parameter specified in the applicable standard, the frequency of reporting shall revert to the frequency specified in the applicable standard, and the Permittee shall submit an excess emissions and monitoring systems performance report (and summary report, if required) at the next appropriate reporting period following the noncomplying event. After demonstrating compliance with the applicable standard for another full year, the Permittee may again request approval from the Department to reduce the frequency of reporting for that standard as provided for in 40 CFR 60.7(e)(1) and (e)(2).

[40 CFR 60.7(e)]

Records Retention. The Permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and, all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least **5 (five)** years following the date of such measurements, maintenance, reports, and records.

[40 CFR 60.7(f); Rule 62-213.440(1)(b)2.b., F.A.C.]

Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Department (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Department's satisfaction that the affected facility is in compliance with the standard, or (3) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in 40 CFR 60.8 shall be construed to abrogate the Department's authority to require testing under section 114 of the Act.

[40 CFR 60.8(b)(1), (4) & (5)]

**APPENDIX 40 CFR 60 Subpart A - General Provisions**  
**(version dated 07/01/97)**

Performance tests shall be conducted under such conditions as the Department shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Department such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

[40 CFR 60.8(c)].

**Department Notification.**

(a) The Permittee shall provide to the Department's South District office at least 15 days prior notice of any compliance or performance test, except as specified under other subparts, to afford the District office the opportunity to have an observer present. Test results shall be submitted to the District office no later than 45 days after completion of the test.

(b) The Permittee shall give written notification to the Department when there is any modification to this facility. This notice shall be submitted timely and in advance of any critical date involved to allow sufficient time for review, discussion, and revision of plans, if necessary. Such notice shall include, but not be limited to, information describing the precise nature of the change; modifications to any emission control system; production capacity of the facility before and after the change; and, the anticipated completion date of the change.

[40 CFR 60.8(d) and Rule 62-297.310(7)(a)8., F.A.C.]

The Permittee shall provide, or cause to be provided, performance testing facilities as follows:

1. Sampling ports adequate for test methods applicable to such facility. This includes (a) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and (b) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.

2. Safe sampling platform(s).

3. Safe access to sampling platform(s).

4. Utilities for sampling and testing equipment. [40 CFR 60.8(e)]

Each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Department's approval, be determined using the arithmetic mean of the results of the two other runs.

[40 CFR 60.8(f)].

**Compliance with Standards and Maintenance Requirements**

**APPENDIX 40 CFR 60 Subpart A - General Provisions**  
**(version dated 07/01/97)**

Compliance with opacity standards in 40 CFR 60 shall be determined by conducting observations in accordance with Reference Method 9 in appendix A of 40 CFR 60, any alternative method that is approved by the Department, or as provided in 40 CFR 60.11(e)(5). For purposes of determining initial compliance, the minimum total time of observations shall be 3 hours (30 6-minute averages) for the performance test or other set of observations (meaning those fugitive-type emission sources subject only to an opacity standard).  
[40 CFR 60.11(b)].

The Permittee shall follow the manufacturer's instructions during periods of start-up, shutdown, malfunction, or load change to ensure that the best operational practices to minimize emissions will be adhered to and the duration of any excess emissions will be minimized. The instructions shall be kept on file at the plant site and made available for inspection upon request by the Department.  
[40 CFR 60.11(d)]

Credible Evidence. For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any standard in 40 CFR 60, nothing in 40 CFR 60 shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed.  
[40 CFR 60.11(g)].

Circumvention. No owner or operator subject to the provisions of 40 CFR 60 shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.  
[40 CFR 60.12]

Modifications

Except as provided under 40 CFR 60.14(e) and 40 CFR 60.14(f), any physical or operational change to an existing facility which results in an increase in the emission rate to the atmosphere of any pollutant to which a standard applies shall be considered a modification within the meaning of section 111 of the Act. Upon modification, an existing facility shall become an affected facility for each pollutant to which a standard applies and for which there is an increase in the emission rate to the atmosphere.  
[40 CFR 60.14(a)].

Emission rate shall be expressed as kg/hr (lb./hour) of any pollutant discharged into the atmosphere for which a standard is applicable. The Department shall use the following to determine emission rate:

**APPENDIX 40 CFR 60 Subpart A - General Provisions**  
**(version dated 07/01/97)**

(1) Emission factors as specified in the latest issue of "Compilation of Air Pollutant Emission Factors", EPA Publication No. AP-42, or other emission factors determined by the Department to be superior to AP-42 emission factors, in cases where utilization of emission factors demonstrate that the emission level resulting from the physical or operational change will either clearly increase or clearly not increase.

(2) Material balances, continuous monitor data, or manual emission tests in cases where utilization of emission factors as referenced in 40 CFR 60.14(b)(1) does not demonstrate to the Department's satisfaction whether the emission level resulting from the physical or operational change will either clearly increase or clearly not increase, or where an owner or operator demonstrates to the Department's satisfaction that there are reasonable grounds to dispute the result obtained by the Department utilizing emission factors as referenced in 40 CFR 60.14(b)(1). When the emission rate is based on results from manual emission tests or continuous monitoring systems, the procedures specified in 40 CFR 60 appendix C of 40 CFR 60 shall be used to determine whether an increase in emission rate has occurred. Tests shall be conducted under such conditions as the Department shall specify to the owner or operator based on representative performance of the facility. At least three valid test runs must be conducted before and at least three after the physical or operational change. All operating parameters which may affect emissions must be held constant to the maximum feasible degree for all test runs.  
[40 CFR 60.14(b)].

The addition of an affected facility to a stationary source as an expansion to that source or as a replacement for an existing facility shall not by itself bring within the applicability of 40 CFR 60 any other facility within that source.  
[40 CFR 60.14(c)].

The following shall not, by themselves, be considered modifications under 40 CFR 60:

(1) Maintenance, repair, and replacement which the Department determines to be routine for a source category, subject to the provisions of 40 CFR 60.14(c) and 40 CFR 60.15.

(2) An increase in production rate of an existing facility, if that increase can be accomplished without a capital expenditure on that facility.

(3) An increase in the hours of operation.

(4) Use of an alternative fuel or raw material if, prior to the date any standard under 40 CFR 60 becomes applicable to that source type, as provided by 40 CFR 60.1, the existing facility was designed to accommodate that alternative use. A facility shall be considered to be designed to accommodate an alternative fuel or raw material if that use could be accomplished under the facility's construction specifications as amended prior to the change. Conversion to coal required for energy considerations, as specified in section 111(a)(8) of the Act, shall not be considered a modification.

(5) The addition or use of any system or device whose primary function is the reduction of air pollutants, except when an emission control system is removed or is replaced by a system which the Department determines to be less environmentally beneficial.

(6) The relocation or change in ownership of an existing facility.  
[40 CFR 60.14(e)].



**APPENDIX 40 CFR 60 Subpart A - General Provisions**  
**(version dated 07/01/97)**

Special provisions set forth under an applicable subpart of 40 CFR 60 shall supersede any conflicting provisions of this section.

[40 CFR 60.14(f)].

Within 180 days of the completion of any physical or operational change subject to the control measures specified in 40 CFR 60.14(a), compliance with all applicable standards must be achieved.

[40 CFR 60.14(g)].

Definitions. For the purposes of Rule 62-204.800(7), F.A.C., the definitions contained in the various provisions of 40 CFR 60, shall apply except that the term "Administrator" when used in 40 CFR 60, shall mean the Secretary or the Secretary's designee.

[40 CFR 60.2; Rule 62-204.800(7)(a), F.A.C.]

[electronic file name: appa798r.doc]