

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

In the Matter of an  
Application for Permit Modification


Mr. Daniel A. Kleman  
County Administrator  
Hillsborough County  
601 East Kennedy  
Tampa, Florida 33602

Resource Recovery Facility  
PSD Permit No. PSD-FL-121(C)  
DEP File No. 0570261-002-AC  
Air Pollution Control Project  
Hillsborough County

Enclosed is the Final Permit Modification Number PSD-FL-121 (C) and 0570261-002-AC. This construction permit modification is to revise and clarify several specific conditions applicable to the resource recovery facility located at 350 Falkenburg Road, Tampa, Hillsborough County, Florida. The changes did not require further review pursuant to PSD and a Best Available Control Technology determination was not required. This permit modification is issued pursuant to Chapter 403, Florida Statutes.

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 Department 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 Department.

Executed in Tallahassee, Florida.

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

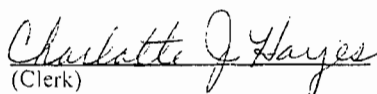
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF FINAL PERMIT MODIFICATION (including the FINAL permit Modification) was sent by certified mail (\*) and copies were mailed by U.S. Mail before the close of business on 7/20/00 to the person(s) listed:

Daniel Kleman, County Administrator \*  
Mayor, City of Tampa  
Gregg Worley, EPA  
John Bunyak, NPS  
Rebeca S. Bigari, OMS  
Jerry Campbell, HCEPC  
Bill Thomas, DEP SWD  
Buck Oven

Clerk Stamp

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

 7/20/00  
(Clerk) (Date)



Jeb Bush  
Governor

# Department of Environmental Protection

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

David B. Struhs  
Secretary

May 3, 2000

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Daniel A. Kleman  
County Administrator  
Hillsborough County  
601 East Kennedy  
Tampa, Florida 33602

Re: Resource Recovery Facility  
DEP File No. 0570261-002-AC (PSD-FL-121C)


Dear Mr. Kleman:

Enclosed is one copy of the Intent to Issue and Draft Modification to the Prevention of Significant Deterioration of Air Quality Permit (PSD Permit) for the Hillsborough County Resource Recovery Facility located at 350 Falkenburg Road, Tampa Hillsborough County. The Department's Intent to Issue PSD Permit Modification and the "PUBLIC NOTICE OF INTENT TO ISSUE PSD PERMIT MODIFICATION" are also included.

The "PUBLIC NOTICE OF INTENT TO ISSUE AIR PSD PERMIT MODIFICATION" must be published one time only, as soon as possible, in the legal advertising section of a newspaper of general circulation in the area affected, pursuant to the requirements of Chapter 50, Florida Statutes. Proof of publication, i.e., newspaper affidavit, must be provided to the Department's Bureau of Air Regulation office within 7 (seven) days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

Please submit any written comments you wish to have considered concerning the Department's proposed action to A. A. Linero, P.E., Administrator, New Source Review Section at the above letterhead address. If you have any other questions, please call Mr. Linero at 850/921-9523 or Ms. Teresa Heron at 850/921-9529.

Sincerely,

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

CHF/th

Enclosures

"More Protection, Less Process"

Printed on recycled paper.

In the Matter of an  
Application for PSD permit modification by:

Hillsborough County  
601 East Kennedy  
Tampa, Florida 33602

DEP File No. 0570261-002-AC (PSD-FL-121C)  
Hillsborough County Resource Recovery Facility

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**INTENT TO ISSUE PSD PERMIT MODIFICATION**

The Department of Environmental Protection (Department) gives notice of its intent to issue a modification of the permit for the Prevention of Significant Deterioration of Air Quality (copy of draft PSD permit modification attached) for the proposed changes, detailed in the application specified above and the enclosed Technical Evaluation and Preliminary Determination, for the reasons stated below.

The applicant, Hillsborough County, applied on April 5, 2000, to the Department for a modification to the PSD permit for its Hillsborough County Resource Recovery Facility located at 350 Falkenburg Road, Tampa, Hillsborough County. The modification is to revise and clarify certain specific conditions of permit PSD-FL-121B. No emission increases are expected as a result of this action.

The Department has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, and 62-212. The above actions are not exempt from permitting procedures. The Department has determined that a PSD permit modification is required to make these changes.

The Department intends to issue this PSD permit modification based on the belief that reasonable assurances have been provided to indicate that operation of these emission units will not adversely impact air quality, and the emission units will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C.

Pursuant to Section 403.815, F.S., and Rule 62-110.106(7)(a)1., F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue PSD Permit Modification. The notice shall be published one time only in the legal advertisement section of a newspaper of general circulation in the area affected. Rule 62-110.106(7)(b), F.A.C., requires that the applicant cause the notice to be published as soon as possible after notification by the Department of its intended action. For the purpose of these rules, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400 (Telephone: 850/488-0114; Fax 850/922-6979). You must provide proof of publication within seven days of publication, pursuant to Rule 62-110.106(5), F.A.C. No permitting action for which published notice is required shall be granted until proof of publication of notice is made by furnishing a uniform affidavit in substantially the form prescribed in section 50.051, F.S. to the office of the Department issuing the permit. Failure to publish the notice and provide proof of publication may result in the denial of the permit modification pursuant to Rules 62-110.106(9) & (11), F.A.C.

The Department will issue the final permit modification with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments and requests for public meetings concerning the proposed PSD permit modification issuance action for a period of 30 (thirty) days from the date of publication of Public Notice of Intent to Issue PSD Permit Modification. Written comments and requests for public meetings should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit modification and require, if applicable, another Public Notice.

Z 341 355 278

US Postal Service

**Receipt for Certified Mail**

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to <i>Daniel Klemm</i>	
Street & Number <i>Co. Admin.</i>	
Post Office, State, & ZIP Code <i>Jampaa, FL</i>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	<i>5-3-00</i>
<i>0570261-002-AC</i> <i>PSD-FL-121e</i>	

PS Form 3800, April 1995

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1 Article Addressed to:  
*Mr. Daniel Klemm*  
*Co. Administrator*  
*Hillsborough Co.*  
*601 E. Kennedy*  
*Jampaa, FL*

*33602*

**COMPLETE THIS SECTION ON DELIVERY**

A. Received by (Please Print Clearly) *DKA* B. Date of Delivery *8/20/00*

C. Signature *DKA*  Agent  
 Addressee

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

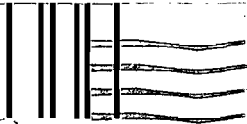
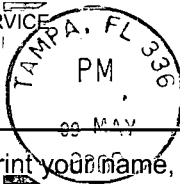
3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

2 Article Number (Copy from service label)

*Z 341 355 278*

UNITED STATES POSTAL SERVICE



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box •

Department of Environmental Protection  
Division of Air Resources Management  
Bureau of Air Regulation, NSRS  
2600 Blair Stone Road, MS 5505  
Tallahassee, Florida 32399-2400

BUREAU OF AIR REGULATION

MAY 1 2000

RECEIVED

2398+6542



P 265 659 378

US Postal Service  
**Receipt for Certified Mail**

No Insurance Coverage Provided.

Do not use for International Mail. (See reverse)

Sent to <i>Daniel Klemm</i>	
Street & Number <i>Hillsboro Co</i>	
Post Office, State, & ZIP Code <i>Tampa FL</i>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	<i>6-29-98</i>
<i>0570261</i>	
<i>PSD FL-121 B</i>	

PS Form 3800, April 1995

Is your RETURN ADDRESS completed on the reverse side?

**SEND**

- Complete items 3, 4a, and 4b for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

For additional services (for an extra fee):

1.  Addressee's Address
2.  Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:  
*Daniel Klemm, CA*  
*Hillsborough Co.*  
*601 E. Kennedy*  
*Tampa, FL 33602*

4a. Article Number  
*P 265 659 378*

4b. Service Type  
 Registered  Certified  
 Express Mail  Insured  
 Return Receipt for Merchandise  COD

7. Date of Delivery  
*JUL 02 1998*

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)  
*[Signature]*

Thank you for using Return Receipt Service.

UNITED STATES POSTAL SERVICE

RECEIVED



JUL 06 1998

First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

• Print your name, address, and ZIP Code in this box •

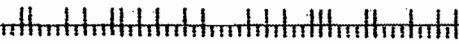
AIR REGULATION

Department of Environmental Protection  
Division of Air Resources Management  
Bureau of Air Regulation, NSRS  
2600 Blair Stone Road, MS 5505  
Tallahassee, Florida 32399-2400

RECEIVED

JUL 03 1998

BUREAU OF  
AIR REGULATION



Z 031 392 030

US Postal Service

### Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to <i>Daniel Kleman</i>	
Street & Number <i>601 E. Kennedy</i>	
Post Office, State, & ZIP Code <i>Tampa, Fl 33602</i>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date <i>7/20/00</i> <i>Hillsborough Co. RRF</i>	

PS Form 3800, April 1995

#### SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1 Article Addressed to:

Mr. Daniel A. Kleman  
County Administrator  
Hillsborough County  
601 East Kennedy  
Tampa, Florida 33602

2 Article Number (Copy from service label)

Z 031 392 030

#### COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) B. Date of Delivery

C. Signature *DK* *7/20/00*

Agent  
 Addressee

D. Is delivery address different from item 1?  Yes

If YES, enter delivery address below:  No

3. Service Type

Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes



UNITED STATES POSTAL SERVICE



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

RECEIVED

• Sender: Please print your name, address, and ZIP+4 in this box •

JUL 26 2000

BUREAU OF AIR REGULATION

Department of Environmental Protection  
Division of Air Resources Management  
Bureau of Air Regulation, NSRS  
2600 Blair Stone Road, MS 5505  
Tallahassee, Florida 32399-2400

32399+2400



2 341 355 279

US Postal Service  
**Receipt for Certified Mail**

No Insurance Coverage Provided.  
 Do not use for International Mail. (See reverse)\*

PS Form 3800, April 1995

Sent to <i>Daniel Klemas</i>	
Street & Number <i>Hillsboro Co</i>	
Post Office, State, & ZIP Code <i>Tampa FL</i>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date <i>5-4-00</i>	
<i>0570261-002-AC</i>	
<i>PSD-FL-121C</i>	

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1 Article Addressed to:

*Mr. Daniel Klemas  
 Hillsboro Co  
 601 E. Kennedy  
 Tampa, FL*

*33602*

**COMPLETE THIS SECTION ON DELIVERY**

A. Received by (Please Print Clearly) B. Date of Delivery

C. Signature

**X**

*[Signature]*

- Agent  
 Addressee

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type

- Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

2 Article Number (Copy from service label)

*2 341 355 279*

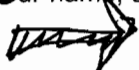
UNITED STATES POSTAL SERVICE



RECEIVED

• Sender, Please print your name, address, and ZIP+4 in this box •

MAY 12 2000  
BUREAU OF AIR REGULATION



MS 5505

DARM

Department of Environmental Protection  
Division of Air Resources Management  
Bureau of Air Regulation, NSRS  
2600 Blair Stone Road, MS 5505  
Tallahassee, Florida 32399-2400

Magnolia  
Plaza



or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code. A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modifica-

tion of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to the petition to become a party to the proceeding, in accordance with the requirements set forth above.

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays at:

Dept. of Environmental Protection  
Bureau of Air Regulation  
Suite 4, 111 S. Magnolia Drive  
Tallahassee, Florida, 32301  
Telephone: 850/488-0114  
Fax: 850/922-6979  
Environmental Protection  
Commission of Hillsborough  
County  
1410 North 21 Street  
Tampa, Florida 33605  
Telephone: 813/272-5530  
Fax: 813/272-5605  
Dept. of Environmental  
Protection  
Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8218  
Telephone: 813/744-6100  
Fax: 813/744-6084

The complete project file includes the application, technical evaluations, draft PSD permit modification, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Administrator, New Source Review Section at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/488-0114, for additional information.

3182

5/28/00

Z 031 392 030

US Postal Service

### Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to	Daniel Kleman	
Street & Number	601 E. Kennedy	
Post Office, State, & ZIP Code	Tampa, FL 33602	
Postage	\$	
Certified Fee		
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to Whom & Date Delivered		
Return Receipt Showing to Whom, Date, & Addressee's Address		
TOTAL Postage & Fees	\$	
Postmark or Date	7/20/00 Hillsborough Co. RRF	

PS Form 3800, April 1995

#### SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Daniel A. Kleman  
County Administrator  
Hillsborough County  
601 East Kennedy  
Tampa, Florida 33602

2. Article Number (Copy from service label)

Z 031 392 030

PS Form 3811, July 1999

Domestic Return Receipt

102595-99-M-1789

#### COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) B. Date of Delivery

C. Signature *JK* JUL 24 2000

Agent  
 Addressee

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

Is your RETURN ADDRESS completed on the reverse side?

#### SENDER

- Complete items 1, 2, and 3 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

Give the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Daniel Kleman, CA  
Hillsborough Co.  
601 E. Kennedy  
Tampa, FL 33602

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

*JK*

4a. Article Number

P 265 059 378

4b. Service Type

- Registered  Certified  
 Express Mail  Insured  
 Return Receipt for Merchandise  COD

7. Date of Delivery

JUL 02 1998

8. Addressee's Address (Only if requested and fee is paid)

Thank you for using Return Receipt Service.

Return Receipt

P 265 659 378

**US Postal Service  
Receipt for Certified Mail**

No Insurance Coverage Provided.  
Do not use for International Mail. (See reverse)

Sent to		Daniel Klemm	
Street & Number		Hillsboro Co	
Post Office, State, & ZIP Code		Tampa, FL	
Postage	\$		
Certified Fee			
Special Delivery Fee			
Restricted Delivery Fee			
Return Receipt Showing to Whom & Date Delivered			
Return Receipt Showing to Whom, Date, & Addressee's Address			
TOTAL Postage & Fees	\$		
Postmark or Date			

PS Form 3800, April 1995

**US Postal Service  
Receipt for Certified Mail**

No Insurance Coverage Provided.  
Do not use for International Mail. (See reverse)

Sent to		Daniel Klemm	
Street & Number		CO-Admin.	
Post Office, State, & ZIP Code		Tampa, FL	
Postage	\$		
Certified Fee			
Special Delivery Fee			
Restricted Delivery Fee			
Return Receipt Showing to Whom & Date Delivered			
Return Receipt Showing to Whom, Date, & Addressee's Address			
TOTAL Postage & Fees	\$		
Postmark or Date			

PS Form 3800, April 1995

0570261-002-AC  
PSD-FI-1218  
5-3-00

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
 Mr. Daniel Klemm  
 Hillsboro Co  
 601 E. Kennedy  
 Tampa, FL 33602

2. Article Number (Copy from service label): **Z 341 355 279**  
 Domestic Return Receipt  
 PS Form 3811, July 1999

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
 Mr. Daniel Klemm  
 Co. Administrator  
 Hillsborough Co.  
 601 E. Kennedy  
 Tampa, FL 33602

2. Article Number (Copy from service label) **Z 341 355 278**  
 Domestic Return Receipt  
 PS Form 3811, July 1999

**COMPLETE THIS SECTION ON DELIVERY**

A. Received by (Please Print Clearly) \_\_\_\_\_ B. Date of Delivery \_\_\_\_\_

C. Signature *[Signature]*  Agent  Addressee

D. Is delivery address different from item 1?  Yes  
 if YES, enter delivery address below:  No

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

102595-99-M-1789

**COMPLETE THIS SECTION ON DELIVERY**

A. Received by (Please Print Clearly) **MAY 8 2000** B. Date of Delivery \_\_\_\_\_

C. Signature *[Signature]*  Agent  Addressee

D. Is delivery address different from item 1?  Yes  
 if YES, enter delivery address below:  No

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

102595-99-M-1789

Postmark or Date		5-4-00	
TOTAL Postage & Fees		\$	
Return Receipt Showing to Whom, Date, & Addressee's Address		Daniel Klemm Hillsboro Co Tampa, FL	
Return Receipt Showing to Whom & Date Delivered			
Restricted Delivery Fee			
Special Delivery Fee			
Certified Fee			
Postage		\$	
Return Receipt Showing to Whom & Date Delivered			
Return Receipt Showing to Whom, Date, & Addressee's Address			
TOTAL Postage & Fees		\$	
Postmark or Date		5-3-00	

PS Form 3800, April 1995

**US Postal Service  
Receipt for Certified Mail**

No Insurance Coverage Provided.  
Do not use for International Mail. (See reverse)

0570261-002-AC  
PSD-FI-1218

PS Form 3800, April 1995

**US Postal Service  
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0570261-002-AC  
PSD-FI-1218

PS Form 3800, April 1995

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

In the Matter of an  
Application for Permit Modification

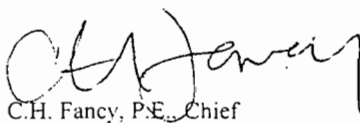
Mr. Daniel A. Kleman  
County Administrator  
Hillsborough County  
601 East Kennedy  
Tampa, Florida 33602

Resource Recovery Facility  
PSD Permit No. PSD-FL-121(C)  
DEP File No. 0570261-002-AC  
Air Pollution Control Project  
Hillsborough County

Enclosed is the Final Permit Modification Number PSD-FI-121 (C) and 0570261-002-AC. This construction permit modification is to revise and clarify several specific conditions applicable to the resource recovery facility located at 350 Falkenburg Road, Tampa, Hillsborough County, Florida. The changes did not require further review pursuant to PSD and a Best Available Control Technology determination was not required. This permit modification is issued pursuant to Chapter 403, Florida Statutes.

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 Department 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 Department.

Executed in Tallahassee, Florida.

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

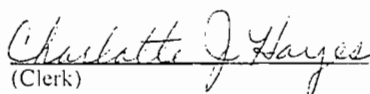
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF FINAL PERMIT MODIFICATION (including the FINAL permit Modification) was sent by certified mail (\*) and copies were mailed by U.S. Mail before the close of business on 7/20/00 to the person(s) listed:

Daniel Kleman, County Administrator \*  
Mayor, City of Tampa  
Gregg Worley, EPA  
John Bunyak, NPS  
Rebeca S. Bigari, OMS  
Jerry Campbell, HCEPC  
Bill Thomas, DEP SWD  
Buck Oven

Clerk Stamp

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

 7/20/00  
(Clerk) (Date)

- item - if restricted delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
  - Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Daniel A. Kleman  
 County Administrator  
 Hillsborough County  
 601 East Kennedy  
 Tampa, Florida 33602

C. Signature *[Signature]*  Agent  Addressee

D. Is delivery address different from item 1?  Yes  No  
 If YES, enter delivery address below:

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

2. Article Number (Copy from service label)  
7 031 392 030

**7 031 392 030**

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Sent to	<i>Daniel Kleman</i>
Street & Number	<i>601 E. Kennedy</i>
Post Office, State, & ZIP Code	<i>Tampa, FL 33602</i>
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	<i>11/20/00</i>
	<i>Hillsborough Co. RRF</i>

PS Form 3800, April 1995



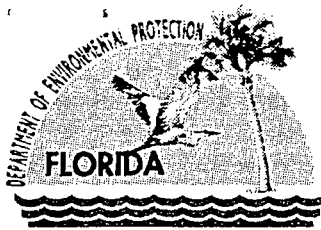
## FINAL DETERMINATION

Hillsborough County Refuse-to-Energy Facility  
Tampa, Florida  
PSD-FL-121(C) and PA 83-19  
Facility ID. No. 0570261

An Intent to Issue an air construction permit, to authorize the replacement of the air pollution control equipment on existing municipal waste incinerators, for Hillsborough County Refuse-to-Energy Facility was distributed on May 3, 2000. This facility is located at 350 Falkenburg Road in Tampa, Hillsborough County, Florida. The Public Notice of Intent to Issue Air Construction Permit was published in The Tampa Tribune on May 28, 2000.

In response to the public notice, no comments were received by the public or any State or Federal Agency. No adverse comments were received from Gabriel Castano, Engineer for the Hillsborough County Environmental Protection Commission (HCEPC).

The final action of the Department will be to issue the permit as noted during the public notice period.



# Department of Environmental Protection

Jeb Bush  
Governor

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

David B. Struhs  
Secretary

**PERMITTEE:**

Hillsborough County  
Resource Recovery Facility  
601 E. Kennedy  
Tampa, Florida 33602

FID No.	0570261
PSD No.	PSD-FL-121 (C)
SIC No.	4953
PPS No.	PA 83-19
Expires:	December 19, 2000

*Authorized Representative:*

Daniel A. Kleman  
County Administrator

**PROJECT AND LOCATION:**

Permit to replace air pollution control system on a nominal 1200 (1380 peak) ton per day waste combustion and energy recovery facility in order to comply with the requirements of 40CFR60, Subpart Cb - Emission Guideline and Compliance Times for Municipal Waste Combustors That Are Constructed on or Before December 19, 1995. Electrostatic precipitators will be replaced with selective non-catalytic reduction systems, spray dryer absorbers, activated carbon injection units, and fabric filters. Permit defines wastes, which can be combusted and expands peak waste input to 115 percent of nominal capacity. The facility is located at 350 Falkenburg Road, Tampa, Hillsborough County. UTM coordinates are Zone 17; 368.20 km E; 3092.70 km N

**STATEMENT OF BASIS:**

This construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and the Florida Administrative Code (F.A.C.) Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297. The above named permittee is authorized to modify the facility in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department of Environmental Protection (Department).

**Attached appendix is part of this permit:**

Appendix GC      Construction Permit General Conditions

Howard L. Rhodes, Director  
Division of Air Resources  
Management

# AIR CONSTRUCTION PERMIT PSD-FL-121(C) AND PA 83-19

## SECTION I. FACILITY INFORMATION

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### SUBSECTION A. FACILITY DESCRIPTION

This existing facility consists of three mass-burn combustion units, with a nameplate (nominal) capacity to combust 400 tons per day (tpd) when burning solid waste with a heat content of 4,500 British thermal units (BTU) per pound (lb). Therefore, the facility has a nameplate (nominal) waste processing rate of 1,200 tpd (4,500 Btu/lb). The Facility generates electricity. The electric power is introduced into the electric grid and is sold. Each upgraded air pollution system will consist of a spray dryer absorber (SDA), fabric filter baghouse (FF), activated carbon injection (ACI) unit, and a selective non-catalytic reduction (SNCR) system.

### SUBSECTION B. REGULATORY CLASSIFICATION

This facility is listed in Table 62-212.400 of Chapter 62-212, F.A.C., "Major Facilities Categories". Stack and fugitives emissions of over 100 tons per year of particulate matter, carbon monoxide, volatile organic compounds, sulfur dioxide, and nitrogen oxides, characterize the installation as a major facility. The installation of the new air pollution control system will not subject this facility to PSD review under the requirement of Rule 62-212.400, F.A.C., since there is not an increase in actual emissions. As a Resource Recovery Facility (waste-to-energy facility), the affected emissions units are subject to applicable requirements of Rule 62-296.416, F.A.C. Waste to Energy and Rule 62-204.800, F.A.C., which incorporates 40 CFR 60 Subpart Db, Subpart Cb, Subpart E, and Subpart Eb.

### SUBSECTION C. PERMIT SCHEDULE:

- 05/28/00 Notice of Intent published in The Tampa Tribune
- 05/03/00 Issued Notice of Intent to Issue Permit
- 04/05/00 Application deemed complete
- 04/05/00 Application received at the Bureau of Air Regulation

### SUBSECTION D. RELEVANT DOCUMENTS:

The documents listed below are the basis of the permit. They are specifically related to this permitting action. These documents are on file with the Department:

- Permit Modification request received at the Bureau of Air Regulation on April 5, 2000.
- Application received (Bureau of Air Regulation) on September 16, 1997.
- Department's letters dated October 14, 1997.
- Company letters dated November 11, 1997, January 9, 13, 14, and February 20, 1998.

# AIR CONSTRUCTION PERMIT PSD-FL-121(B) AND PA 83-19

## SECTION II. EMISSION UNIT(S) GENERAL REQUIREMENTS

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### SUBSECTION A. ADMINISTRATIVE

- A.1 Regulating Agencies: All documents related to applications for permits to construct, operate or modify an emissions unit should be submitted to the Bureau of Air Regulation (BAR) and the Power Plant Siting office, Florida Department of Environmental Protection (FDEP) at 2600 Blairstone Road, Tallahassee, Florida 32399-2400 and phone number (850)488-1344. All documents related to reports, tests, and notifications should be submitted to the DEP Southwest District office (DEPSW), 3804 Coconut Palm Drive, Tampa, Florida 33619 and phone number 813/744-6100 and the Environmental Protection Commission of Hillsborough County (HCEPC), 1900 Ninth Avenue, Tampa, Florida 33605 and phone number 813/272-5960.
- A.2 General Conditions: The owner and operator is subject to and shall operate under the attached General Permit Conditions G.1 through G.15 listed in Appendix GC of this permit. General Permit Conditions are binding and enforceable pursuant to Chapter 403 of the Florida Statutes. **[Rule 62-4.160, F.A.C.]**
- A.3 Terminology: The terms used in this permit have specific meanings as defined in the corresponding chapters of the Florida Administrative Code.
- A.4 Forms and Application Procedures: The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C. and follow the application procedures in Chapter 62-4, F.A.C. **[Rule 62-210.900, F.A.C.]**
- A.5 Expiration: Approval to construct shall become invalid if construction is not commenced within 18 months after receipt of such approval, or if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified. **[40CFR 52.21(r)(2)]**.
- A.6 Application for Title V Permit: An application for a modification of the Title V operating permit, pursuant to Chapter 62-213, F.A.C., must be submitted to the DEP's Bureau of Air Regulation, and a copy to Department Southwest District office (DEPSW) and the Hillsborough County Environmental Protection Commission (HCEPC). **[Chapter 62-213, F.A.C.]**
- A.7 New or Additional Conditions: Pursuant to Rule 62-4.080, F.A.C., for good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time.

# AIR CONSTRUCTION PERMIT PSD-FL-121(C) and PA 83-19

## SECTION II. EMISSION UNIT(S) GENERAL REQUIREMENTS

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### SUBSECTION B. CONSTRUCTION REQUIREMENTS

- B.1 Unless otherwise indicated in this permit, the construction of the subject emissions unit (s) shall be in accordance with the design specifications stated in the application. Operation of the facility shall be in accordance with applicable provisions of the 40 CFR 60, Subpart Cb and with the emissions limits and process operating rates specified in the permit.

The facility is subject to all applicable provisions of Chapter 403, F.S. and Florida Administrative Code Chapters 62-4, 62-103, 62-204, 62-212, 62-213, 62-296, 62-297 and the Code of Federal Regulations Section 40, Part 60, adopted by reference in the Florida Administrative Code (F.A.C.) regulations [Rule 62-204.800, F.A.C.] Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting or regulations [Rule 62-210.300, F.A.C.].

### SUBSECTION C. OPERATIONAL REQUIREMENTS

- C.1 Changes/Modifications: The owner or operator shall submit to the Department's Bureau of Air Regulation, for review any changes in, or modifications to: the method of operation; process or pollution control equipment; increase in hours of operation; equipment capacities; or any change which would result in an increase in potential/actual emissions. Depending on the size and scope of the modification, it may be necessary to submit an application for, and obtain, an air construction permit prior to making the desired change. *Routine maintenance of equipment will not constitute a modification of this permit.* [Rule 62-4.030, 62-210.300 and 62-4.070(3), F.A.C.]
- C.2 Plant Operation - Problems: If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by fire, wind or other cause, the owner or operator shall notify the Department Southwest District office (DEPSW) and the Hillsborough County Environmental Protection Commission (HCEPC) as soon as possible, but at least within (1) working day, excluding weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; the steps being taken to correct the problem and prevent future recurrence; and where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with the conditions of this permit and the regulations. [Rule 62-4.130, F.A.C.]
- C.3 Operating procedures shall include good combustion practices and proper training and certification of all operators. The good combustion practices shall meet the guidelines established in 40 CFR 60, Subpart Cb and procedures as established by recognized industry standards. All operators (including supervisors) of air pollution control device shall be

## AIR CONSTRUCTION PERMIT PSD-FL-121(C) and PA 83-19

### SECTION II. EMISSION UNIT(S) GENERAL REQUIREMENTS

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properly trained and certified in plant specific equipment. A list of all such certified personnel shall be submitted to the DEP Southwest District office. Department staff shall be given notice of any formal training sessions related to operation and maintenance of air pollution control devices. [Rule 62-204.800(8), F.A.C. and 62-4.070 (3), F.A.C.]

- C.4 Exceptions and Approval of Alternate Procedures and Requirements: An Alternate Sampling Procedure (ASP) may be requested from the Bureau of Air Monitoring and Mobile Sources of the Florida Department of Environmental Protection in accordance with the procedures specified in **Rule 62-297.620, F.A.C.**

#### SUBSECTION D. MONITORING OF OPERATIONS

##### Determination of Process Variables

- D.1 The permittee shall operate and maintain equipment and/or instruments necessary to determine process variables, such as process weight input or heat input, when such data is needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.
- D.2 Equipment and/or instruments used to directly or indirectly determine such process variables, including devices such as belt scales, weigh 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.]

#### SUBSECTION E. OTHER REQUIREMENTS

- E.1 Waste Disposal: The owner or operator shall treat, store, and dispose of all liquid, solid, and hazardous wastes in accordance with all applicable Federal, State, and Local regulations. This air pollution permit does not preclude the permittee from securing any other types of required permits, licenses, or certifications.

#### SUBSECTION F. ELECTRIC UTILITY STEAM GENERATING UNIT ACTUAL EMISSIONS

- F.1 Requirement: The permittee shall provide the Department within the period not longer than 10 years following the change, information demonstrating that the physical or operational change did not result in a "representative actual annual emissions" increase in accordance with Rule 62-210.200 (12)(d), F.A.C., and Rule 62-212.400, F.A.C. [40 CFR 52.21(b)(33), Rule 62-4.070 (3), Rule 62-212.400, and Rule 62-210.200, F.A.C.]

# AIR CONSTRUCTION PERMIT PSD-FL-121(C) AND PA 83-19

## SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS

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### SUBSECTION A. 40 CFR 60, NSPS, GENERAL PROVISIONS

The following emission limitations shall apply to each affected emissions unit after the proposed improvements to comply with 40 CFR 60 Subpart Cb are made and compliance testing is completed. This section addresses the following emissions units:

EMISSIONS UNIT No.	EMISSIONS UNITS DESCRIPTION
001	150 MMBtu/hr (nominal) Municipal Waste Combustor & Auxiliary Burners - Unit No.1
002	150 MMBtu/hr (nominal) Municipal Waste Combustor & Auxiliary Burners - Unit No.2
003	150 MMBtu/hr (nominal) Municipal Waste Combustor & Auxiliary Burners - Unit No.3
100	Ash Building and Handling System

The affected emissions units shall comply with all applicable requirements of 40 CFR 60, General Provisions, Subpart A.

- A.1 [40 CFR 60.7, Notification and record keeping]
- A.2 [40 CFR 60.8, Performance tests]
- A.3 [40 CFR 60.11, Compliance with standards and maintenance requirements]
- A.4 [40 CFR 60.12, Circumvention]
- A.5 [40 CFR 60.13, Monitoring requirements]
- A.6 [40 CFR 60.19, General notification and reporting requirements]

The affected emissions units shall comply with all applicable provisions of the 40 CFR 60, Subpart E and Subpart Cb, New Source Performance Standards for Incinerators and Emissions Guidelines for Existing Municipal Waste Combustors along with applicable requirements of Subpart Db, New Source Performance Standards for Steam Generating Units, 40 CFR 61.30, and Rule 62-296.416, F.A.C., Waste-to-Energy Facilities. In addition these emissions units shall also comply with all the conditions listed in Section II (Emissions Unit General Requirements) of this permit.

**[Rule 62-4.070(3), 62-204.800(8) and 62-296-416, F.A.C.; and PSD-FL-104, 121 and 121(A)].**

{Note: This project is subject to the requirements of 40 CFR 60, Subpart Cb. This permit may refer to the requirements of 40 CFR 60, Subpart Eb where these requirements are referenced by Subpart Cb}

SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS

SUBSECTION B. SPECIFIC CONDITIONS:

The following Specific Conditions apply to the following emissions units after improvements to comply with 40 CFR Subpart Cb are completed.

EMISSIONS UNIT No.	EMISSIONS UNITS DESCRIPTION
001	150 MMBtu/hr (nominal) Municipal Waste Combustor & Auxiliary Burners - Unit No.1
002	150 MMBtu/hr (nominal) Municipal Waste Combustor & Auxiliary Burners - Unit No.2
003	150 MMBtu/hr (nominal) Municipal Waste Combustor & Auxiliary Burners - Unit No.3

{Permitting Note: Each of the three municipal waste combustor (MWCs) shall have a nominal design rate capacity of 400 tons MSW per day, 150 MMBtu per hour (excluding 9.9 MMBtu/hr from the combustion air preheaters) and 94,270 pounds steam per hour with MSW having a heating value of 4,500 Btu per pound. The "operating window" of 115 percent (%) over the nominal design rate of 150MMBtu heat input corresponds to 172.5 MMBtu/hr heat input and 102,000 lb steam/ hour per each boiler. By letter dated March 17,1998, D.B Riley, Inc. (boilers' manufacturer) indicated that it performed an evaluation of each boiler's ability to operate at the proposed increase steam flow of 102,000 lb steam /hr and concluded that each boiler can safely operate at an increased continuous steam generation rate of 103,700 lb steam/hr. Short-term capacity is limited by limiting steam production (102,000 lb/hr), which effectively limits heat input. The facility has a design net steam energy of 1158 Btu/lb (1378.86 Btu/lb steam enthalpy – 220 Btu/lb feedwater enthalpy)}

OPERATIONAL REQUIREMENTS

B.1 The combustor boilers shall have a metal name plate affixed in a conspicuous place on the shell showing manufacturer, model number, type waste, and rated capacity.

B.2 Process Operating Rates

The maximum individual MWC throughput shall not exceed 460 tons MSW per day (1380 tons per day entire facility), and 102,000 pounds steam per hour (on a 4-hour block arithmetic average). The incinerators/boilers shall not be loaded in excess of their maximum operating capacity, equivalent to 1380 tons MSW per day total, but no more than 1200 tons MSW per day on an annual (52 week rolling average) average basis for the entire facility. (Compliance per Specific Conditions B.13 and B.14)

[Rule 62-204.800(8), F.A.C., 40 CFR 60.31b; 60.38b; 60.51b, and 60.58b(j)]  
 [PSD-FL-121(A)/PA 83-19 and Rule 62-4.030(3), F.A.C.]

B.3 Load Level: *Unit load* means the steam load of the municipal waste combustor (MWC) measured as specified in 40 CFR 60.58b(i)(6). Each MWC unit shall not operate at a load



SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS

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level greater than 110 percent of the unit's "maximum demonstrated unit load." The maximum demonstrated unit load is the highest 4-hour arithmetic averaged MWC unit load achieved during four consecutive hours during the most recent dioxin/furan performance stack test in which compliance with the dioxin/furan emission limit was achieved. Higher loads are allowed for testing purposes as specified at 40 CFR 60.53b(b). [Rule 62-204.800(8), F.A.C., 40 CFR 60.31b; 60.38b; 60.51b; 60.53b(b); and 60.58b(i)(8)]

B.4 Emission Control Equipment

*Particulate Matter*

The combustor's particulate control baghouse shall be designed, constructed and operated to not exceed a maximum emission rate of 27 mg/dscm corrected to 7 percent O<sub>2</sub>. These baghouses/collectors shall be equipped with pressure drop monitoring equipment.

*Spray Dry Scrubber*

The facility shall be equipped with dry scrubbers which are designed, constructed and operated to remove SO<sub>2</sub> at an efficiency of 75 percent, or to not exceed a maximum emission rate of 29 ppm<sub>dv</sub> corrected to 7 percent O<sub>2</sub>, 24-hour block geometric mean, whichever is less stringent.

*Carbon Injection*

The carbon injection rate must be estimated and maintained in compliance with the requirements set forth in 40 CFR 60.58b(m).

*Selective Non Catalytic Reduction System*

The facility shall be equipped with SNCRs which are designed, constructed and operated to not exceed a maximum NO<sub>x</sub> emission rate of 205 ppm<sub>dv</sub> corrected to 7 percent O<sub>2</sub>, 24-hour block arithmetic mean (midnight to midnight).

Within 30 days after it becomes available, but before commencement of construction, the Permittee shall submit to the Department's Southwest District office copies of technical data pertaining to the selected emission control systems. This data should include, but not be limited to guaranteed efficiency and emission rates, and major design parameters.

B.5 Stack Height: The height of the boiler exhaust stack shall not be less than 220 feet above grade.

**SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS**

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**B.6 Fuels**

The primary fuel for the facility is municipal solid waste (MSW), including the items and materials that fit within the definition of MSW contained in either 40 CFR 60.51b or Section 403.706(5), Florida Statutes (1995).

B.6.1 Subject to the limitations contained in this permit, the authorized fuels for the facility also include the other solid wastes that are not MSW which are described below. However, the facility *shall not knowingly burn*:

- (a) those materials that are prohibited by state or federal law;
- (b) those materials that are prohibited by this permit;
- (c) lead acid batteries;
- (d) hazardous waste;
- (e) nuclear waste;
- (f) radioactive waste;
- (g) sewage sludge;
- (h) explosives.
- (i) beryllium containing waste as defined in 40 CFR 61.31(g).

B.6.2 The fuel may be received either as a mixture or as a single-item stream (segregated load) of discarded materials. If the facility intends to use an authorized fuel that is segregated non-MSW material, the fuel shall be either:

- (a) well mixed with MSW in the refuse pit; or
- (b) alternately charged with MSW in the hopper.

B.6.3 The facility owner/operator shall prepare and maintain records concerning the description and quantities of all segregated loads of non-MSW material which are received and used as fuel at the facility, and subject to a percentage weight limitation, below (B.6.6. and B.6.7). For the purposes of this permit, a segregated load is defined to mean a container or truck that is almost completely or exclusively filled with a single item or homogenous composition of waste material, as determined by visual inspection.

B.6.4 To ensure that the facility's fuel does not adversely affect the facility's combustion process or emissions, the facility operator shall:

- (a) comply with good combustion operating practices in accordance with 40 CFR 60.53b;
- (b) install, operate and maintain continuous emissions monitors (CEMS) for oxygen, carbon monoxide, sulfur dioxide, oxides of nitrogen and temperature in accordance with 40 CFR 60.58b; and
- (c) record and maintain the CEMS data in accordance with 40 CFR 60.59b.

## AIR CONSTRUCTION PERMIT PSD-FL-121(C) and PA 83-19

### SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS

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These steps shall be used to ensure and verify continuous compliance with the emissions limitations in this permit.

Natural gas may be used as fuel during warm-up, startup, shutdown, and malfunction periods, and at other times when necessary and consistent with good combustion practices.

B.6.5 Subject to the conditions and limitations contained in this permit, the following other solid waste may be used as fuel at the facility:

- (a) Confidential, proprietary or special documents (including but not limited to business records, lottery tickets, event tickets, coupons and microfilm);
- (b) Contraband which is being destroyed at the request of appropriately authorized local, state or federal governmental agencies, provided that such material is not an explosive, a propellant, a hazardous waste, or otherwise prohibited at the facility. For the purposes of this section, contraband includes but is not limited to drugs, narcotics, fruits, vegetables, plants, counterfeit money, and counterfeit consumer goods;
- (c) Wood pallets, clean wood, and land clearing debris;
- (d) Packaging materials and containers;
- (e) Clothing, natural and synthetic fibers, fabric remnants, and similar debris, including but not limited to aprons and gloves; or
- (f) Rugs, carpets, and floor coverings, but not asbestos-containing materials or polyethylene or polyurethane vinyl floor coverings.

B.6.6 Subject to the conditions and limitations contained in this permit waste tires may be used as fuel at the facility. The total quantity of waste tires received as *segregated loads* and burned at the facility shall not exceed 3%, by weight, of the facility's total fuel. Compliance with this limitation shall be determined on a calendar month basis in accordance with specific condition No. B.25 below.

B.6.7 Subject to the conditions and limitations contained in this permit, the following other solid waste materials may be used as fuel at the facility (i.e. the following are authorized fuels that are non-MSW material). The total quantity of the following non-MSW material received as *segregated loads* and burned at the facility shall not exceed 5%, by weight, of the facility's total fuel. Compliance with this limitation shall be determined on a calendar month basis in accordance with specific condition No. B.25 below.

- (a) Construction and demolition debris.
- (b) Oil spill debris from aquatic, coastal, estuarine or river environments. Such items or materials include but are not limited to rags, wipes, and absorbents.
- (c) Items suitable for human, plant or domesticated animal use, consumption or application where the item's shelf-life has expired or the generator wishes to remove the items from the market. Such items or materials include but are not limited to off-specification or expired consumer products, pharmaceuticals, medications, health and personal care products, cosmetics, foodstuffs, nutritional supplements, returned goods, and controlled substances.

## AIR CONSTRUCTION PERMIT PSD-FL-121(C) and PA 83-19

### SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS

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- (d) Consumer-packaged products intended for human or domesticated animal use or application but not consumption. Such items or materials include but are not limited to carpet cleaners, household or bathroom cleaners, polishes, waxes and detergents.
- (e) Waste materials that:
  - (i) are generated in the manufacture of items in categories (c) or (d), above and are functionally or commercially useless (expired, rejected or spent); or
  - (ii) are not yet formed or packaged for commercial distribution. Such items or materials must be substantially similar to other items or materials routinely found in MSW.
- (f) Waste materials that contain oil from:
  - (i) the routine cleanup of industrial or commercial establishments and machinery; or
  - (ii) spills of virgin or used petroleum products. Such items or materials include but are not limited to rags, wipes, and absorbents.
- (g) Used oil and used oil filters. Used oil containing a PCB concentration equal or greater than 50 ppm shall not be burned, pursuant to the limitations of 40 CFR 761.20(e).
- (h) Waste materials generated by manufacturing, industrial or agricultural activities, provided that these items or materials are substantially similar to items or materials that are found routinely in MSW, subject to prior approval of the Department.
- (i) Waste materials specifically authorized in (a) through (g) above do not require Department approval.

#### B.7 Startup/Shutdown/Malfunctions

- (a) The emission limitations for this facility shall apply at all times, except during periods of warmup, startup, shutdown, or malfunctions, provided that the duration of startup, shutdown, or malfunction periods do not exceed 3 hours per occurrence. The duration of warmup periods is not limited. The startup period commences when the affected facility begins the continuous burning of MSW and does not include any warmup period when the affected facility is combusting only natural gas and MSW is not being introduced to the combustor. The use of MSW solely to provide thermal protection to the grate during the warmup periods when MSW is not being fed to the combustor is not considered to be continuous burning. During all startups, shutdowns, and malfunctions, the owner/operator shall use best operational practices to minimize air pollutant emissions.
- (b) A malfunction means any sudden and unavoidable failure of air pollution control equipment or process equipment to operate in a normal or usual manner. Excess emissions that are caused entirely or in part by poor maintenance, careless operation, any other preventable upset condition, or preventable equipment breakdown shall not be considered malfunctions. Excess emissions resulting from startup, shutdown or malfunction of any source 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 3 hours per occurrence. **[Rule 62-210.700, and 62-204.800(8), F.A.C., and 40 CFR 60.58b(a)(1)]**

AIR CONSTRUCTION PERMIT PSD-FL-121(C) and PA 83-19

**SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS**

**EMISSION LIMITATIONS**

B.8 The following maximum emissions limits shall not be exceeded:

POLLUTANT	40 CFR 60, SUBPART Cb EMISSION STANDARDS	EQUIVALENT EMISSIONS		TON/YR
		LB/MMBtu	LB/HR	
<b>PM</b> <sup>(1)</sup> Particulate Matter	27 mg/dscm or 0.012 gr/dscf corrected to 7% O <sub>2</sub>	0.024	4.1	17.96
<b>VE</b> Visible Emissions	10% (6 min. block avg.)			
<b>Cd</b> Cadmium	0.040 mg/dscm corrected to 7% O <sub>2</sub>	3.47E-05	6.00E-03	0.026
<b>F</b> Fluorides	6.74 mg/dscm corrected to 7% O <sub>2</sub>	0.0059	1.00	4.43
<b>Be</b> <sup>(3)</sup> Beryllium	1.48 ug/dscm corrected to 7% O <sub>2</sub>	1.27E-06	2.18E-04	9.6E-04
<b>Pb</b> Lead	0.44 mg/dscm corrected to 7% O <sub>2</sub>	3.81E-04	0.065	0.288
<b>Hg</b> <sup>(5)</sup> Mercury	70 ug/dscm or 85% reduction by weight corrected to 7% O <sub>2</sub> (whichever is less stringent)	1.17E-04	0.020	0.087
<b>SAM</b> Sulfuric Acid Mist	To be demonstrated initially. Not to exceed 0.072 gr/dscf corrected to 12% CO <sub>2</sub>			
<b>SO<sub>2</sub></b> <sup>(5)</sup> Sulfur Dioxide	29 ppmv or 75% reduction by weight or volume corrected to 7% O <sub>2</sub> (whichever is less stringent)	0.190	32.86	143.9
<b>HCl</b> <sup>(5)</sup> Hydrochloric Acid	29 ppmv or 95% reduction corrected to 7% O <sub>2</sub> (whichever is less stringent)	0.099	17.00	74.43
<b>Dioxins/Furans</b>	30 ng/dscm corrected to 7% O <sub>2</sub>	2.60 E-08	4.5E-06	1.96E-05
<b>CO</b> Carbon Monoxide	100 ppmv corrected to 7% O <sub>2</sub>	0.101	17.4	76.26
<b>NO<sub>x</sub></b> <sup>(2)</sup> Nitrogen Oxides	205 ppmv corrected to 7% O <sub>2</sub>	0.34	58.63	256
<b>VOC</b> <sup>(4)</sup> Volatile Organic Compounds	To be demonstrated during the initial performance test.			

**These maximum allowable emission rates are applicable to each MWC combustor unit. [Rules 62-4.070, and 62-296.416, F.A.C., 40 CFR 60.33b and 40 CFR 60.34b]**

**Permitting Note: These equivalent emissions (lb/hr and lb/mmBtu) are listed for the purposes of providing information, to indicate the potential to emit (TPY) and are not emission compliance standards.**

# AIR CONSTRUCTION PERMIT PSD-FL-121(C) and PA 83-19

## SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS

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### Notes:

- (1) This limit for PM is more restrictive than the emission limit for PM in 40 CFR 60.43b
- (2) The NO<sub>x</sub> standard of 40 CFR 60.44b do not apply to these emissions units because this permit subjects this facility to a federally enforceable requirement that limits the facility to an annual capacity factor of 10 percent or less for natural gas
- (3) Beryllium: This limit is adjusted downward to produce no net increase in the annual maximum potential emission rate. Refer to Table 1.1 of the application submitted on September 16, 1997.
- (4) VOC emission limit: 0.01 gr/dscf corrected to 12 % CO<sub>2</sub> or 0.2 lb/ton, whichever is more restrictive (PSD-FL-104).
- (5) Emission limits in terms of lbs/ MMBtu or lb/hr for those pollutants which have an emission standard expressed, in part by a percent removal efficiency, shall also be dictated by the percent removal provision.

Basis: Emissions calculations (lb/hr and ton/yr) are based on the maximum heat input rate of 172.5 MMBtu/hr (102,000 lb steam/hr) per unit and 8760 hours of operation.

### Averaging Times

SO<sub>2</sub>: 24-hour daily block geometric mean (midnight to midnight)  
NO<sub>x</sub>: 24-hour daily block arithmetic mean (midnight to midnight)  
CO: 4-hour block arithmetic mean beginning at midnight  
Opacity: 6 minutes block arithmetic mean

### Abbreviations

ug/dscm: Micrograms per dry standard cubic meter  
mg/dscm: Milligrams per dry standard cubic meter  
ppmdv: Part per million dry volume  
ng/dscm: Nanograms per dry standard cubic meter  
Dioxins/ furans: Total tetra through octa-chlorinated dibenzo-p dioxins and dibenzofurans  
F: Fluorides as hydrogen fluoride

Temperature: 17° C above maximum demonstrated PM control device inlet

Auxiliary Burners: Nitrogen oxides emission from the auxiliary burners are expected to approximately be 3.45 lb/hr and 15.1 ton/yr per unit. These emissions are part of, and not in addition to, combustor emissions. Allowable emissions for MSW combustors include auxiliary burners. This facility is limited to a 10 percent (0.10) or less total annual gross heat input for natural gas consumption. Auxiliary burners for each MWC unit shall be fired only by natural gas, and consumption of natural gas shall not exceed 104,937,500 cubic feet per MWC unit in any calendar year (i.e., annual capacity factor for natural gas of 10% or less as determined by 40 CFR 60.44b(d).  
[40 CFR 60.44b, Rule 62-210.200, 62-204.800 (8) and 62-4.070(3), F.A.C.]

## COMPLIANCE AND PERFORMANCE TESTING

Testing shall be conducted in accordance with the requirements of 40 CFR 60.58b Compliance and Performance Testing and 40 CFR 60.8. Performance Tests.

### B.9 Stack Testing

Compliance tests [initial (I) and annual (A)] for SO<sub>2</sub>, NO<sub>x</sub> and CO shall be conducted pursuant to 40 CFR 60.58b, Compliance and Performing Testing.

Compliance tests [initial (I) and annual (A) as indicated in Specific Condition No. B.8] for PM, HCl, Dioxin/furans, F, Be, Pb, Cd, Hg, H<sub>2</sub>SO<sub>4</sub> mist (SAM), VOC and VE shall be

**SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS**

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performed by using the following reference methods as described in 40 CFR 60, Appendix A and/or 40 CFR 61 Appendix B adopted by reference in Chapter 62-204, F.A.C., or any other method as approved by FDEP, in accordance with Chapter 62-297, F.A.C.

Stack tests may also require Method 1, 2, 3/3A/3B and 4 tests as appropriate.

A test protocol shall be submitted for approval to the Department's Southwest District office (DEPSWD) and the Hillsborough County Environmental Protection Commission (HCEPC) at least 45 days prior to initial testing. [Rule 62-204.800(8), F.A.C. and Chapter 62-297, F.A.C.]

- Method 5<sup>(1)</sup>** Determination of Particulate Matter Emissions (front half catch only) from Stationary Sources (I) and (A).
- Method 8** Determination of Sulfuric Acid Mist from Stationary Sources (I).
- Method 9** Visual Determination of the Opacity of Emissions from Stationary Sources (I) and (A).
- Method 13A or 13 B** Determination of Total Fluoride Emissions from Stationary Sources (I) and (A).
- Method 18, 25 or 25a** Determination of Volatile Organic Concentrations (I).
- Method 23<sup>(2)</sup>** Determination of Dioxin/furan concentration from Stationary Sources (I) and (A).
- Method 26<sup>(3)</sup> or 26A** Determination of HCl emissions (I) and (A).
- Method 29<sup>(3)</sup>** Determination of Metals Emissions from Stationary Sources (I) and (A).

(1) Pursuant to 40 CFR 60.58b(c)(3) EPA Reference Method 5 shall be used for determining compliance with the particulate matter emission limit. The minimum sample volume shall be 1.7 cubic meters. The probe and filter holder heating systems in the sample train shall be set to provide a gas temperature no greater than  $160 \pm 14$  °C. An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 5 run.

(2) Dioxin/Furan emission limit expressed as the total mass of tetra- through octa chlorinated dibenzo-p-dioxins and dibenzofurans. The facility may perform less frequent testing for dioxin/furan emissions, as allowed by 40 CFR 60.38b(b) and with prior notice to the Department, if the facility's dioxin/furan emissions do not exceed 15 ug/dscm corrected to 7% O<sub>2</sub> or less for all MWC units.

(3) HCl and mercury stack tests upstream and downstream of the control device (s) shall be conducted to calculate percent control.

**SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS**

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Initial compliance tests for each combustion unit shall be conducted within 60 days after achieving maximum operating capacity, but not later than 180 days after startup. Annual tests shall be conducted within one year after the initial tests, unless otherwise allowed by the Department.

- B.10. Test Procedures: Compliance tests shall meet all applicable requirements (i.e., testing time frequency, minimum compliance duration etc.) of the Florida Administrative Code Chapter 62-297. The Method 9 test shall be conducted during one run of the particulate matter test. The particulate matter test shall be conducted under conditions representative of normal operations and shall be scheduled to coincide with as much of the normal cleaning (soot blowing) cycle as practicable. Initial performance tests for SO<sub>2</sub> and NO<sub>x</sub> shall be conducted using CEMS in accordance with the methods and requirements of 40 CFR 60.58b(e)(4) and (h)(3), respectively. **[Rule 62-204.800(8), F.A.C., and Rule 62-297.310, F.A.C.; and 40 CFR 60.38b (40 CFR 60.58b)]**
- B.11 Stack Testing Facilities: The owner or operator shall install stack testing facilities in accordance with Rule 62-297.310(6), F.A.C. The owner or operator shall provide ports in the air pollution control equipment outlet duct or stack and shall provide access to the sampling ports. **[Rule 62-297.310(6)(c), F.A.C.]**
- B.12 Monitoring Compliance:
- Continuous Compliance with Emission Limits: Continuous compliance with the emission limits for opacity, carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>), sulfur dioxide (SO<sub>2</sub>) listed in B.8 and the operational parameters (steam production, etc.) listed in Specific Condition No. B.3 shall be demonstrated by continuous emission monitoring systems (CEMS) operated in accordance with 40 CFR 60.58b and 60.59b(f). **[Rule 62-204.800(8), F.A.C. and 40 CFR 60.38 (40 CFR 60.58b)]**
- B.13 Compliance With Load Level Requirements: The owner or operator of an affected facility with steam generation capability shall install, calibrate, maintain, and operate a steam flow meter or a feedwater flow meter; measure steam (or feedwater) flow in kilograms per hour (or pounds per hour) on a continuous basis; and record the output of the monitor (in accordance with the ASME method described in 40 CFR 60.58b(i)(6). Steam (or feedwater) flow shall be calculated in 4-hour block arithmetic averages. Higher loads are allowed for testing purposes as specified at 40 CFR 60.53b(b). **[Rule 62-204.800(8), F.A.C., 40 CFR 60.31b; 60.38b; 60.51b; 60.53b(b); and 60.58b(i)(6)]**



SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS

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- B.14 Compliance with the Continuous Charging Rate: The daily solid waste charging rate and hours of operation shall be determined and recorded for each MWC unit. The daily charging rate shall be determined each month on an average daily basis for each MWC unit using the Facility's truck scale weight data, refuse pit inventory, and MWC operating data for the preceding calendar month. Monthly truck scale weight records on the weight of solid waste received and processed at the Facility and refuse pit inventory shall be used to determine the amount of solid waste charged during the preceding calendar month on an average daily basis. The MWC load level measurements or other operating data shall be used to determine the number of operating hours per MWC unit for each day during the preceding calendar month. [Rule 62-204.800(8), F.A.C., and 40 CFR 60.53(a)]
- B.15 Compliance with the PM Control Device Temperature: Each MWC unit is required to continuously monitor and record the flue gas temperature at the inlet to the PM control device in accordance with the requirements at 40 CFR 60.58b(i)(7). The PM control device temperature shall be calculated in 4-hour block arithmetic averages. Each MWC unit shall be allowed to operate up to 17°C (30° F) above the unit's maximum demonstrated PM control device temperature. The maximum demonstrated PM control device temperature is the highest 4-hour arithmetic block-averaged measurement of temperature at the inlet to the PM control device recorded for 4 consecutive hours during the most recent dioxin/furan performance test which complied with the limits given above. The PM control device inlet temperature and the steam (or feedwater) flow for each unit during the stack test shall be continuously monitored and recorded in accordance with 40 CFR 60, Subpart Cb. Higher temperatures are allowed for testing purposes, as specified at 40 CFR 60.53b(c). [Rule 62-204.800(8), F.A.C. and 40 CFR 60.38b, 40 CFR 60.53b(c) and 60.58b(i)(7) and (9)]
- B.16 Compliance with the Carbon Injection Rate: The carbon injection rate for each MWC unit (kilograms per hour [kg/hr] or pounds per hour [lb/hr]) shall be estimated during each mercury and dioxin/furan compliance stack test based on carbon injection system operating parameters such as the screw feeder speed, hopper volume, hopper refill frequency, or other parameters appropriate to the feed system being employed. During operation of each MWC unit, the carbon injection system operating parameter(s) that are the primary indicator(s) of carbon mass feed rate must equal or exceed the level(s) documented during the most recent mercury and dioxin/furan stack tests in which compliance with the emission limits were achieved. The owner or operator shall estimate the total carbon usage for the facility for each calendar quarter according to the weight of carbon delivered to the facility and the average carbon mass feed rate (kg/hr or lb/hr) for each MWC unit based on the primary indicator(s) for carbon mass feed rate, summing the results for all MWC units and accounting for the total number of operating hours during the calendar quarter.

**SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS**

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[Rule 62-204.800(8), F.A.C. and 40 CFR 60.58b(m)]

B.17 Auxiliary Burners Compliance:

- (a) Auxiliary burners for each unit shall be fired only by natural gas. The annual capacity factor for natural gas shall be 10 percent or less. Monthly records shall be maintained of the amount of natural gas used by the auxiliary burners in each unit and the equivalent gross heat input. On an annual basis (no later than 60 days after the end of the calendar year), a demonstration must be performed based on the monthly records showing that the capacity factor for natural gas in each unit was 10 percent or less. The annual capacity factor for natural gas is the ratio between the heat input to the unit from natural gas and the potential heat input to the unit had it been operated for 8760 hours during a calendar year at the maximum steady state design heat input capacity. [Rule 62-4.070(3), F.A.C., and 40 CFR 60.44b(d)]
- (b) During boiler start up, the auxiliary gas burners shall be operating at their maximum capacity prior to the introduction of MSW to the boilers, and shall remain in operation until the lime spray dryer and particulate control device are fully operational. [Rule 62-4.070(3), F.A.C.]

**MONITORING OF OPERATIONS**

- B.18 Continuous Emission Monitoring System(CEMS): CEMS with recorders shall be installed, calibrated, maintained and operated for each unit subject to review by FDEP for the following pollutants and operational parameters:

Carbon Monoxide.

Nitrogen Oxides.

Opacity.

Sulfur Dioxide.

(SO<sub>2</sub> monitors shall be located both upstream of the scrubber and downstream of the baghouse, in order to calculate percent removal efficiency).

Oxygen.

Total steam production (lbs/hr, pressure, and temperature) or feedwater flow rate (lbs/hr)

Device to measure temperature of flue gases at the fabric filter inlet.

Carbon injection system operating parameters.

Power generation (MW).

Unless required in 40 CFR 60, Subpart Cb, operational data monitoring systems (steam production, baghouse inlet temperature measurement, carbon injection system and power

**SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS**

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generation) shall be calibrated annually and operated in accordance with good engineering practice.

[Rule 62-204.800(8), F.A.C.; Rule 62-4.070 (3), F.A.C., and 40 CFR 60.58b]

- B.19 The monitoring devices shall meet the applicable requirements of Rule 62-297.520, F.A.C., 40 CFR 60.45, and 40 CFR 60.13, including certification of each device in accordance with 40 CFR 60, Appendix B, Performance Specifications and 40 CFR 60.7(a)(5). Quality assurance procedures must conform to all applicable sections of 40 CFR, Appendix F. Data on CEM/COM equipment specifications, manufacturer, type, calibration and maintenance needs, and its proposed location after the economizer or in the air pollution control equipment outlet duct shall be provided to the Department's Southwest District Office (DEPSWD) and the Hillsborough County Environmental Protection Commission (HCEPC) for review at least 90 days prior to installation. Initial performance evaluations must be completed within 180 days after initial startup of each retrofitted unit. [Rule 62-204.800(8) and 62-4.070(3), F.A.C.), 40 CFR 60.38 and 40 CFR 60.58b]

**RECORD KEEPING AND REPORTING REQUIREMENTS**

B.20 Reports and Records:

All measurements, records, and other data (test reports, etc.) required to be maintained by this facility shall be retained for at least five (5) years following the date on which such measurements, records, or data are recorded. These data shall be made available to the Department of Environmental Protection, Southwest District office and the Hillsborough County Environmental Protection Commission upon request. [Rule 62-4.070(3), F.A.C.; Rule 62-4.160(14)(b), F.A.C. and 40 CFR 60.59b]

The Permittee shall maintain a central file containing all measurements, records, and other data that are required to be collected pursuant to the various specific conditions of this permit. This file shall include but not be limited to:

- (a) Data collected from monitoring instruments, including CEM/COM systems, steam or feedwater flow measurements and PM control device temperatures;
- (b) Continuous steam flow or feedwater flow records on 4-hour block average basis;
- (c) Records on daily solid waste charging rates and hours of operation derived from monthly truck scale data, refuse pit inventory, and operational records.

**SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS**

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- (d) Amount of natural gas burned for each unit each month; the equivalent heat input from natural gas for each unit each month, calculated using the heat value for natural gas provided by the natural gas supplier; and the annual records of the natural gas capacity factor for each unit;
- (e) Results of all source tests or performance tests; and records of the maximum demonstrated unit load specified by condition B.3 of this permit.
- (f) Amounts of activated carbon used for mercury control;
- (g) Calibration logs for all instruments subject to this permit;
- (h) Maintenance/repair logs for any work performed which is subject to this permit;
- (i) Records showing the names of facility personnel who have been provisionally or fully certified, and who have completed the MWC operator training course, and who have completed reviews of the operating manual, including the dates and documentation of certification/review.
- (j) Records demonstrating compliance with the percentage limitations on segregated solid wastes required by specific condition B.25 of this permit.

B.21. Excess Emission Reports

B.21.1 Quarterly Reports

The owner or operator shall submit excess emission reports for any calendar quarter during which there are excess emissions from the facility pursuant to 40 CFR 60.7(c). If there are no excess emissions during the calendar quarter, the owner or operator shall submit a report quarterly stating that no excess emissions occurred during the quarterly reporting period. The report shall include the following:

- (a) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factors used, and the date and time of commencement and completion of each period of excess emissions.  
**[40 CFR 60.7(c)(1)]**
- (b) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the furnace boiler system. The nature and cause of any

**SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS**

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malfunction (if known) and the corrective action taken or preventive measured adopted.  
**[40 CFR 60.7(c)(2)]**

(c) The date and time identifying each period during which the continuous monitoring system (CEM/COM) was inoperative except for zero and span checks, and the nature of the system repairs or adjustments.

**[40 CFR 60.7(d)(2) as applicable].**

(d) When no excess emissions have occurred or the continuous monitoring system (CEM/COM) has not been inoperative, repaired, or adjusted, such information shall be stated in the report [40 CFR 60.7(c)(4)]. In case of excess emissions resulting from malfunctions, the owner or operator shall notify FDEP and the HCEPC in accordance with Section 62-4.130, F.A.C.

**B.21.2 Other Excess Emission Reports**

In case of excess emissions resulting from malfunctions\*, the owner or operator shall notify Department's Southwest District office (DEPSWD) and the Hillsborough County Environmental Protection Commission (HCEPC) in accordance with Section 62-4.130, F.A.C. The DEPSWD and the HCEPC shall be notified within one working day of: the nature, extent, and duration of the excess emissions; the cause of the excess emissions; and the actions taken to correct the problem. In addition, the DEPSWD or the HCEPC may request a written summary report of the incident. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the DEPSWD or HCEPC.

\* Malfunction is defined at Rule 62-210.200(179) to mean any unavoidable mechanical and/or electrical failure of air pollution control equipment or process equipment or of a process resulting in operation in an abnormal or unusual manner.

**[Rules 62-4.130 and 62-210.700(6), F.A.C.]**

**B.22 Continuous Emission Monitoring System Reports:** For CEM and other monitoring systems required by this permit, data on monitoring equipment specifications, manufacturer, type, calibration and maintenance needs, and proposed location shall be provided to the Department's Southwest District office and the Hillsborough County Environmental Protection Commission for review at least 90 days prior to installation.

**B.23 Operating Reports:** Before March 1st of each year, the owner or operator shall submit to the Department Southwest District office (DEPSW) and the Hillsborough County

SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS

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Environmental Protection Commission (HCEPC) the Annual Operating Report [DEP Form No. 62-210.900(5)], which summarizes operations for the previous calendar year. No later than February 1st of each year, the owner or operator shall submit an annual report for the previous calendar year including the information required by 40 CFR 60.59b(g)(1) through (4), as applicable. In addition, if applicable, the owner or operator shall submit to the FDEP and the HCEPC offices the information required in 40 CFR 60.59b(h) on a semiannual basis. **[Rule 62-210.370(3), F.A.C. and 40 CFR 60.59b(g) and if applicable 40 CFR 60.59b(h)]**

- B.24 Sampling Reports: Drawings of testing facilities including sampling port locations as required by Section 62-297.310(8)(c) shall be submitted to the Southwest District Office at least 60 days prior to construction of the sampling ports.
- B.25 Segregated Solid Waste Record Keeping: The following records shall be made and kept to demonstrate compliance with the segregated non-MSW percentage limitations of specific condition B.6:

Each segregated load of non-MSW materials, that is subject to the percentage weight limitation of specific conditions B.6.6 and B.6.7, which is received for processing shall be documented as to waste description and weight. The weight of all waste materials received for processing shall be measured using the facility truck scale and recorded.

Each day the total weight of *segregated tires* received shall be computed, and the daily total shall be added to the sum of the daily totals from the previous days in the current calendar month. At the end of each calendar month, the resultant monthly total weight of *tires* shall be divided by the total weight of all waste materials received in the same calendar month, and the resultant number shall be multiplied by 100 to express the ratio in percentage terms. The percentage computed shall be compared to the 3% limitation.

Each day the total weight of *segregated non-MSW materials* received that are subject to the 5% restriction shall be computed, and the daily total shall be added to the sum of the daily totals from the previous days in the current calendar month. At the end of each calendar month, the resultant monthly total weight of *segregated non-MSW materials* subject to the 5% restriction shall be divided by the total weight of all waste materials received in the same calendar month, and the resultant number shall be multiplied by 100 to express the ratio in percentage terms. The percentage computed shall be compared to the 5% limitation.

**SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS**

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**OPERATOR TRAINING AND CERTIFICATION**

B.26 Requirements

- (a) One of the following persons must be on duty at the facility at any time during which one or more of the MWC units is operating: a fully certified chief facility operator or shift supervisor; or a provisionally certified chief facility operator or shift supervisor who is scheduled to take the full certification exam. If this person must leave the facility during his or her operating shift, a provisionally certified control room operator who is on site may fulfill this requirement. **[40 CFR 60.39b(c)(4) (ii) and 40 CFR 60.54b(c)].**
- (b) Each chief facility operator and shift supervisor must obtain and maintain a current provisional operator certification and be scheduled for a full certification exam, or receive full certification, with either the ASME or an equivalent state-approved certification program before the date that person assumes responsibility for operation of the facility. **[40 CFR 60.39b(c)(4)(ii) and 40 CFR 60.54b(a) and (b)]**
- (c) Each chief facility operator, shift supervisor, and control room operator must complete the EPA or state approved MWC operator training course before the date that person assumes responsibility for operation of the facility. The operator training course requirements of 40 CFR 60.54b(d) do not apply to chief facility operators, shift supervisors and control room operators who have obtained full ASME certification on or before the date of State plan approval of November 13, 1997 [40 CFR 60.39b(4)(iii)(c)(A)]. The owner or operator may request that the Department waive the requirements specified in 40 CFR 60.54b(d) for chief facility operators, shift supervisors and control room operators who have obtained provisional ASME certification on or before the date of State plan approval of November 13, 1997 [40 CFR 60.39b(4)(iii)(c)(B)].  
**[40 CFR 60.39b(c)(4) and 40 CFR 60.54b(d)]**
- (d) A site-specific operating manual must be developed and updated on an annual basis [40 CFR 60.54b(e)]. A training program must be established to review the operating manual with each person who has responsibilities affecting the operation of the MWC including chief facility operators, shift supervisors, control room operators, ash handlers, maintenance personnel, and crane/load handlers. Each person must undergo initial training before the day that person assumes responsibilities affecting operation of the facility and annually thereafter [40 CFR 60.54(f)]. The operating manual must be kept in a readily accessible location for all persons required to undergo training.  
**[40 CFR 60.54b(e) and 40 CFR 60.54b(f)]**

**SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS**

**SUBSECTION C. SPECIFIC CONDITIONS:**

The following Specific Conditions apply to the following emissions units:

EMISSIONS UNIT No.	EMISSIONS UNITS DESCRIPTION
100	Ash Building and Handling System
101	Lime Silo
102	Carbon Silo

**EMISSION LIMITATIONS**

**C.1 Lime and Carbon Silos and Ash Conveyor and Handling System:**

Particulate emissions from these emissions units shall be limited as follows:

- (a) In no case shall PM emissions from the lime storage silos exhaust exceed 0.015 gr/dscf (front-half catch) during filling operations of the lime storage silo. Visible emissions shall not exceed 5% opacity in accordance with specific condition C.3.
- (b) In no case shall particulate matter emissions from the activated carbon storage silo exhaust exceed 0.015 gr/dscf (front-half catch) during filling operations of the activated carbon storage silo. Visible emissions shall not exceed 5% opacity in accordance with specific condition C.3.
- (c) Visible emissions from the ash conveyor systems, transfer points, buildings, or enclosures of ash conveying systems shall not occur more than 5 percent of the time during the observation period, except during times of maintenance or repair of these systems.
- (d) The potential for dust generation by ash handling activities will be mitigated by quenching the ash prior to loading in ash transport trucks. The ash handling facilities shall be enclosed. Unprocessed refuse storage areas which must be open for operational purposes (e.g., tipping floor of the refuse bunker while trucks are entering and leaving) will be under negative air pressure. Residue from the grates, grate siftings, and ash from the combustor/boiler and fabric filter hoppers during normal operations shall be discharged into the ash quenching system to minimize visible dust. The ash/residue in the Ash Handling Building shall remain sufficiently moist to prevent dust during storage and handling operations.



**SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS**

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- (e) PM emissions from the ash handling facility baghouse shall not exceed 1.63 pounds per hour. Visible emissions shall not exceed 5 percent opacity in accordance with specific condition C.3.

[Rule 62-04.070(3), F.A.C., 40 CFR 60.36b and 40 CFR 60.55b]

{Note: The fugitive particulate matter control requirements for the ash handling activities specified in 40 CFR 60.55b and in this permit represent RACT for this facility pursuant to the Department's authority of **Rule 62-296.711(2)(c), F.A.C.**}

**COMPLIANCE AND PERFORMANCE TESTING**

**C.2 Fugitives Emissions Compliance:**

The compliance method for fugitive emissions from ash handling facilities shall be:

**Method 22** Visual Determination of Fugitives Emissions From Material Sources

- (a) The minimum observation time will be three hours, and will include periods when ash is being transferred from the MWC unit to the storage area, and when ash is being loaded for disposal.
- (b) Compliance testing for the ash handling and ash conveyor systems shall be conducted within 180 days of completion of construction and initial operation and annually thereafter. All notification requirements of 40 CFR Part 60 shall be satisfied.

Permanent stack facilities are not required for the ash handling building vent.

[Rule 62-04.070(3), F.A.C., 40 CFR 60.36b and 40 CFR 60.55b]

**C.3 Carbon and Lime Storage Silos and Ash Building Baghouse PM Compliance**

**Requirements:** Pursuant to Section 62-297.620(4), F.A.C., the PM compliance test requirements are waived for the lime and carbon storage silos and ash building baghouse and an alternate standard of 5 percent opacity shall apply. Visible emission tests shall be performed for each silo during filling operations and the ash handling baghouse using Method 9. A visible emission reading greater than 5 percent opacity does not create a presumption that the emission limit (in gr/dscf) is being violated, but may require the permittee to perform a particulate stack test using EPA Method 5. Compliance testing for the lime and carbon silos and ash handling building baghouse shall be conducted within 180 days of completion of construction and initial operation and annually thereafter. All notification requirement of 40 CFR 60 shall be satisfied.

[Rule 62-297.620(4), F.A.C.]

AIR CONSTRUCTION PERMIT PSD-FL-121(C) and PA 83-19

SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS

SUBSECTION D. COMMON CONDITIONS:

The following Specific Conditions apply to the following emissions units:

EMISSIONS UNIT No.	EMISSIONS UNITS DESCRIPTION
001	150 MMBtu/hr (nominal) Municipal Waste Combustor & Auxiliary Burners - Unit No.1
002	150 MMBtu/hr (nominal) Municipal Waste Combustor & Auxiliary Burners - Unit No.2
003	150 MMBtu/hr (nominal) Municipal Waste Combustor & Auxiliary Burners - Unit No.3
100	Ash Building and Handling System
101	Lime Silo
102	Carbon Silo

OPERATIONAL REQUIREMENTS

- D.1 These emissions units are allowed to operate continuously (8760 hours/year).  
[Rule 62-210.200, F.A.C. Definitions-Potential to emit (PTE)]
- D.2. Odor Control: No objectionable odors are allowed from this facility. The truck access doors to the facility shall remain closed except during normal working shifts when MSW is being received at the storage pit area. To minimize odors at the facility, a negative pressure shall be maintained on the tipping floor and air from within the building will be used as combustion air. [Rule 62-296.320(2), F.A.C.]
- D.3 Startup/Shutdown/Malfunctions
- (a) In order to minimize excess emissions during startup/shutdown/malfunction these emissions units shall adhere to best operational practices to minimize emissions.
- The duration of excess emissions from the lime silo, carbon silo or ash building baghouse shall be minimized but in no case exceed 2 hours per occurrence  
[Rule 62-210.700, F.A.C.]
- (b) 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.]
- (c) Within 90 days prior to completion of the construction authorized in this permit, the permittee shall submit to the DEP Southwest District office an operational procedures

**SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS**

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manual that identifies and describes best operational practices that will be used during startup, shutdown, and malfunctions of this facility.

**EMISSION LIMITATIONS**

- D.4 Facility Fugitive (Unconfined) Emissions: Fugitive emissions at this facility shall be adequately controlled at all times. All roads shall be adequately paved, and vacuum swept if appropriate, to minimize accumulations of ash and dust. Speed limit signs shall be posted. Unprocessed refuse storage areas which must be open for operational purposes (e.g., tipping floor or the refuse bunker while trucks are entering and leaving) shall be under negative air pressure  
[Rule 62-296.320(4)(c), F.A.C.]

**COMPLIANCE AND PERFORMANCE TESTING**

- D.5 Test Notification: The owner or operator shall notify the Department Southwest District office (DEPSW) and the Hillsborough County Environmental Protection Commission (HCEPC) in writing at least *30 days* (initial) and *15 days* (annual) prior to each scheduled compliance test to allow witnessing. The notification shall include the compliance test date, place of such test, the expected test time, the facility contact person for the test, and the person or company conducting the test. The 30 or 15 day notification requirement may be waived at the discretion of the Department. Likewise, if circumstances prevent testing during the test window specified for the emissions unit, the owner or operator may request an alternate test date before the expiration of this window. [Rule 62-297.310 and 40 CFR 60.8, F.A.C.]
- D.6 Special Compliance Tests: When the Department, after investigation, has good reason (such as substantiated complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in Rule 62-204, 62-210, 62-212, 62-296 and 62-297, F.A.C. or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the facility to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions units and to provide a report on the results of said tests to the Department Southwest District office (DEPSW) and the Hillsborough County Environmental Protection Commission (HCEPC).  
[Rule 62-297.310(7)(b), F.A.C.]

**SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS**

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- D.7 Operating Rate During Testing: Unless otherwise stated in the applicable emission limiting standard rule, testing of emissions shall be conducted with the emissions unit operation at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the 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. Higher loads are also allowed for testing purposes as specified at 40 CFR 60.53b(b). See also specific conditions B.2, B.3, and B.13 of this permit. [Rule 62-297.310(2) and (3), F.A.C.]

**RECORD KEEPING AND REPORTING REQUIREMENTS**

D.8 Emission Compliance Stack Test Reports:

- (a) A *test report* indicating the results of the required compliance tests shall be filed with the Department Southwest District office (DEPSW) and the Hillsborough County Environmental Protection Commission (HCEPC) as soon as practical, but no later than 45 days after the last sampling run is completed. [Rule 62-297.310(8), F.A.C., and 40 CFR 60.59(b)(f)]
- (b) The *test report* shall provide sufficient detail on the tested emissions unit and the procedures used to allow the Department to determine if the test was properly conducted and if the test results were properly computed. At a minimum, the test report shall provide the applicable information listed in **Rule 62-297.310(8), F.A.C.**

**SCHEDULE OF COMPLIANCE**

- D.9. The compliance schedule for each unit is provided below.

*Increment 1*: Submittal of a final control plan for the designated facility to the appropriate air pollution control agency. December 31, 1996 - applicable to units 1, 2 and 3.

*Increment 2*: Awarding of contracts for emission control systems or for process modifications, or issuance of orders for the purchase of component parts to accomplish emission control or process modification. December 31, 1997- applicable to units 1, 2 and 3.

*Increment 3*: Initiation of on site construction or installation of emission control equipment or process change. February 28, 1999 - applicable to the first unit. July 30, 1999 - applicable to the second unit. April 30, 2000 - applicable to the third unit.

AIR CONSTRUCTION PERMIT PSD-FL-121(C) and PA 83-19

**SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS**

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The order of the construction schedule (i.e., which unit is first, second and third) will be identified in the final control plan.

*Increment 4:* Completion of on-site construction or installation of emission control equipment or process change. September 30, 2000 - applicable to units 1, 2 and 3.

*Increment 5:* Final compliance. December 10, 2000 - applicable to units 1, 2 and 3.

Closure Agreement: Not later than November 13, 2000, the County will cease operation of any unit that has not completed on-site construction or installation of emission control equipment and is not involved in performance testing. After closure, said units may commence startup, shakedown and performance/compliance testing per the closure agreement. Performance/compliance tests must be completed within 180 days of startup.

**[Rule 62-204.800(8)9.b.,F.A.C.]**

**APPENDIX GC**  
GENERAL PERMIT CONDITIONS [F.A.C. 62-4.160]

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- G.1 The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
- G.2 This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings or exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- G.3 As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey and vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
- G.4 This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- G.5 This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
- G.6 The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
- G.7 The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:
- (a) Have access to and copy and records that must be kept under the conditions of the permit;
  - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,
  - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.
- Reasonable time may depend on the nature of the concern being investigated.
- G.8 If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
- (a) A description of and cause of non-compliance; and
  - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

**APPENDIX GC**  
GENERAL PERMIT CONDITIONS [F.A.C. 62-4.160]

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The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

- G.9 In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- G.10 The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
- G.11 This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
- G.12 This permit or a copy thereof shall be kept at the work site of the permitted activity.
- G.13 This permit also constitutes:
- (a) Determination of Best Available Control Technology ( )
  - (b) Determination of Prevention of Significant Deterioration ( );
  - (c) Compliance with New Source Performance Standards (X);
- G.14 The permittee shall comply with the following:
- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
  - (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application or this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
  - (c) Records of monitoring information shall include:
    - 1. The date, exact place, and time of sampling or measurements;
    - 2. The person responsible for performing the sampling or measurements;
    - 3. The dates analyses were performed;
    - 4. The person responsible for performing the analyses;
    - 5. The analytical techniques or methods used; and
    - 6. The results of such analyses.
- G.15 When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

Florida Department of  
Environmental Protection

Memorandum

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TO: Howard L. Rhodes

THRU: Clair H. Fancy *CAF*  
Al Linero *AL* *for AAL*

FROM: Teresa Heron *T.H.*

DATE: July 12, 2000

SUBJECT: Hillsborough County Resource Recovery Facility  
Air Pollution Control Equipment Project  
Permit Modification PSD-FL-121 (C) and 0570261-002-AC

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*BAR*

Attached is a final package for a permit modification to the PSD permit (PSD-FL-121B) for this facility. This modification clarifies and revises some specific conditions of the permit issued in 1998. The changes are minor and do not increase the permit emissions limits. The changes will be incorporated into the final Title V permit or a subsequent revision of that permit.

We recommend your approval and signature.

AAL/th

Attachments



Today's Date 07/12/00

Date application received 4/5/00

30th day for initial review 5/4/00

Days remaining to request addl. info. -69

Latest

1st Req.

2nd Req.

Date of request for additional information

Date of response

30th day for review

Days remaining to request addl. info.


Date application complete 4/5/00

74th day to issue Intent for PSD 6/17/00

Date Intent was mailed 5/3/00

Date proof of publication was received 6/12/00

Date published 5/28/00

5/3/00
6/12/00
5/28/00

53  
8/25/00

<--Number of days clock is tolled (date

<--Day 90, final permit must be issued

Date of Final Permit Issuance

Enter date of Final Permi

For non-PSD permits, you can't issue before--> 6/10/00

For PSD permits, you can't issue before --> 6/26/00

**THE TAMPA TRIBUNE** **RECEIVED**  
**Published Daily**  
**Tampa, Hillsborough County, Florida** JUN 12 2000

State of Florida )  
 County of Hillsborough ) ss.

BUREAU OF AIR REGULATION

Before the undersigned authority personally appeared J. Rosenthal, who on oath says that she is Classified Billing Manager of The Tampa Tribune, a daily newspaper published at Tampa in Hillsborough County, Florida; that the attached copy of advertisement being a

LEGAL NOTICE

in the matter of \_\_\_\_\_

PUBLIC NOTICE OF INTENT

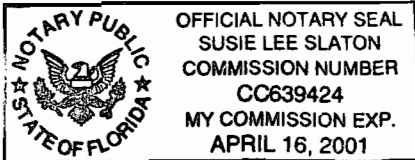
was published in said newspaper in the issues of \_\_\_\_\_

MAY 28, 2000

Affiant further says that the said The Tampa Tribune is a newspaper published at Tampa in said Hillsborough County, Florida, and that the said newspaper has heretofore been continuously published in said Hillsborough County, Florida, each day and has been entered as second class mail matter at the post office in Tampa, in said Hillsborough County, Florida for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid nor promised any person, this advertisement for publication in the said newspaper.

Sworn to and subscribed by me, this 29 day  
 of MAY, A.D. 2000.

Personally Known  or Produced Identification \_\_\_\_\_  
 Type of Identification Produced \_\_\_\_\_



*Susie Lee Slaton*

PUBLIC NOTICE OF INTENT TO ISSUE PSD PERMIT MODIFICATION STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DEP File No. 0570261-002-AC (PSD-FL-121C) Hillsborough County Resource Recovery Facility Hillsborough County

The Department of Environmental Protection (Department) gives notice of its intent to issue a modification of the permit of Significant Deterioration of Air Quality (PSD Permit) to Hillsborough County to revise and clarify several specific conditions applicable to its resource recovery facility located at 350 Falkenburg Road, Tampa, Hillsborough County. The changes do not require further review pursuant to PSD and a Best Available Control Technology determination was not required pursuant to Rule 62-212.400, F.A.C. The applicant's name and address are Hillsborough County, 601 East Kennedy, Tampa, Florida 33602. The facility consists of three nominal 400 ton per day mass burn furnaces, waterwall boilers, ash discharge systems, air pollution equipment, and a single three-stage steam turbine with an electrical generator. A required project is nearly complete at the facility to reduce emissions of acid gases, particulate matter, ozone precursors, and hazardous air pollutants. The facility has requested a number of changes to its PSD permit. These will clarify and simplify the description, actual operational limits, and averaging times applicable to the facility. These include, for example, heat input rates, electrical power capacity, mass throughput, etc. Total emissions of pollutants will not increase as a result of this modification. An air quality impact analysis was conducted when the facility was originally authorized. Another analysis was not required. The Department will issue the final PSD permit modification with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions. The Department will accept written comments and requests for public meetings concerning the proposed action for a period of 30 (thirty) days from the date of publication of this Public Notice of Intent to Issue PSD Permit modification. Written comments and requests for public meetings should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station # 5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed PSD permit modification and require, if applicable, another Public Notice.

The Department will issue the PSD permit modification with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below. Mediation is not available in this proceeding.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant



Jeb Bush  
Governor

# Department of Environmental Protection

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

David B. Struhs  
Secretary

May 3, 2000

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Daniel A. Kleman  
County Administrator  
Hillsborough County  
601 East Kennedy  
Tampa, Florida 33602

Re: Resource Recovery Facility  
DEP File No. 0570261-002-AC (PSD-FL-121C)


Dear Mr. Kleman:

Enclosed is one copy of the Intent to Issue and Draft Modification to the Prevention of Significant Deterioration of Air Quality Permit (PSD Permit) for the Hillsborough County Resource Recovery Facility located at 350 Falkenburg Road, Tampa Hillsborough County. The Department's Intent to Issue PSD Permit Modification and the "PUBLIC NOTICE OF INTENT TO ISSUE PSD PERMIT MODIFICATION" are also included.

The "PUBLIC NOTICE OF INTENT TO ISSUE AIR PSD PERMIT MODIFICATION" must be published one time only, as soon as possible, in the legal advertising section of a newspaper of general circulation in the area affected, pursuant to the requirements of Chapter 50, Florida Statutes. Proof of publication, i.e., newspaper affidavit, must be provided to the Department's Bureau of Air Regulation office within 7 (seven) days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

Please submit any written comments you wish to have considered concerning the Department's proposed action to A. A. Linero, P.E., Administrator, New Source Review Section at the above letterhead address. If you have any other questions, please call Mr. Linero at 850/921-9523 or Ms. Teresa Heron at 850/921-9529.

Sincerely,

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

CHF/th

Enclosures

"More Protection, Less Process"

Printed on recycled paper.

In the Matter of an  
Application for PSD permit modification by:

Hillsborough County  
601 East Kennedy  
Tampa, Florida 33602

DEP File No. 0570261-002-AC (PSD-FL-121C)  
Hillsborough County Resource Recovery Facility

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**INTENT TO ISSUE PSD PERMIT MODIFICATION**

The Department of Environmental Protection (Department) gives notice of its intent to issue a modification of the permit for the Prevention of Significant Deterioration of Air Quality (copy of draft PSD permit modification attached) for the proposed changes, detailed in the application specified above and the enclosed Technical Evaluation and Preliminary Determination, for the reasons stated below.

The applicant, Hillsborough County, applied on April 5, 2000, to the Department for a modification to the PSD permit for its Hillsborough County Resource Recovery Facility located at 350 Falkenburg Road, Tampa, Hillsborough County. The modification is to revise and clarify certain specific conditions of permit PSD-FL-121B. No emission increases are expected as a result of this action.

The Department has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, and 62-212. The above actions are not exempt from permitting procedures. The Department has determined that a PSD permit modification is required to make these changes.

The Department intends to issue this PSD permit modification based on the belief that reasonable assurances have been provided to indicate that operation of these emission units will not adversely impact air quality, and the emission units will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C.

Pursuant to Section 403.815, F.S., and Rule 62-110.106(7)(a)1., F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue PSD Permit Modification. The notice shall be published one time only in the legal advertisement section of a newspaper of general circulation in the area affected. Rule 62-110.106(7)(b), F.A.C., requires that the applicant cause the notice to be published as soon as possible after notification by the Department of its intended action. For the purpose of these rules, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400 (Telephone: 850/488-0114; Fax 850/ 922-6979). You must provide proof of publication within seven days of publication, pursuant to Rule 62-110.106(5), F.A.C. No permitting action for which published notice is required shall be granted until proof of publication of notice is made by furnishing a uniform affidavit in substantially the form prescribed in section 50.051, F.S. to the office of the Department issuing the permit. Failure to publish the notice and provide proof of publication may result in the denial of the permit modification pursuant to Rules 62-110.106(9) & (11), F.A.C.

The Department will issue the final permit modification with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments and requests for public meetings concerning the proposed PSD permit modification issuance action for a period of 30 (thirty) days from the date of publication of Public Notice of Intent to Issue PSD Permit Modification. Written comments and requests for public meetings should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit modification and require, if applicable, another Public Notice.

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
 Mr. Daniel Klemm  
 Co. Administrator  
 Hillsborough Co.  
 601 E. Kennedy  
 Tampa, FL 33602

**COMPLETE THIS SECTION ON DELIVERY**

A. Received by (Please Print Clearly) **MAI** B. Date of Delivery **8/20/00**

C. Signature *[Signature]*

D. Is delivery address different from item 1?  Yes  No  
 If YES, enter delivery address below:

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes  No

2. Article Number (Copy from service label) **Z 341 355 278**

Domestic Return Receipt

PS Form 3811, July 1999

102595-99-M-1789

Z 341 355 278

US Postal Service  
**Receipt for Certified Mail**  
 No Insurance Coverage Provided.  
 Do not use for International Mail (See reverse)

Sent to <i>Daniel Klemm</i>	
Street & Number <i>Co. Admin.</i>	
Post Office, State, & ZIP Code <i>Tampa FL</i>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	<i>15-3-00</i>
<i>0570261-002-AC</i>	
<i>PSD-FI-1210</i>	

PS Form 3800, April 1995

US Postal Service  
**Receipt for Certified Mail**  
 No Insurance Coverage Provided.  
 Do not use for International Mail (See reverse)

Sent to <i>Daniel Klemm</i>	
Street & Number <i>Hillsborough Co</i>	
Post Office, State, & ZIP Code <i>Tampa FL</i>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	<i>5-4-00</i>
<i>0570261-002-AC</i>	
<i>PSD-FI-1210</i>	

PS Form 3800, April 1995

Z 341 355 279

**RECEIVED**  
 BUREAU OF AIR REGULATION  
 Department of Environmental Protection, DARM  
 Bureau of Air Resources Management  
 2600 Blair Stone Road, MS 5505  
 Tallahassee, Florida 32399-2400

*Magnolia Plaza*

• Make: Please print your name, address, and ZIP+4 in this box.  
 1 2 2000  
 MS 5505

UNITED STATES POSTAL SERVICE

09 11 00 PM 08

First-Class Mail  
 Postage & Fees Paid  
 USPS  
 Permit No. G-10

The Department will issue the PSD permit modification with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above. Mediation is not available in this proceeding.

In addition to the above, a person subject to regulation has a right to apply for a variance from or waiver of the requirements of particular rules, on certain conditions, under Section 120.542 F.S. The relief provided by this state statute applies only to state rules, not statutes, and not to any federal regulatory requirements. Applying for a variance or waiver does not substitute or extend the time for filing a petition for an administrative hearing or exercising any other right that a person may have in relation to the action proposed in this notice of intent.

The application for a variance or waiver is made by filing a petition with the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. The petition must specify the following information: (a) The name, address, and telephone number of the petitioner; (b) The name, address, and telephone number of the attorney or qualified representative of the petitioner, if any; (c) Each rule or portion of a rule from which a variance or waiver is requested; (d) The citation to the statute underlying

(implemented by) the rule identified in (c) above; (e) The type of action requested; (f) The specific facts that would justify a variance or waiver for the petitioner; (g) The reason why the variance or waiver would serve the purposes of the underlying statute (implemented by the rule); and (h) A statement whether the variance or waiver is permanent or temporary and, if temporary, a statement of the dates showing the duration of the variance or waiver requested.

The Department will grant a variance or waiver when the petition demonstrates both that the application of the rule would create a substantial hardship or violate principles of fairness, as each of those terms is defined in Section 120.542(2) F.S., and that the purpose of the underlying statute will be or has been achieved by other means by the petitioner.

Persons subject to regulation pursuant to any federally delegated or approved air program should be aware that Florida is specifically not authorized to issue variances or waivers from any requirements of any such federally delegated or approved program. The requirements of the program remain fully enforceable by the Administrator of the EPA and by any person under the Clean Air Act unless and until the Administrator separately approves any variance or waiver in accordance with the procedures of the federal program.

Executed in Tallahassee, Florida.

 P.E. 5/3  
for C. H. Fancy, P.E., Chief  
Bureau of Air Regulation

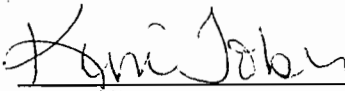
**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Intent to Issue PSD Permit Modification (including the Public Notice of Intent to Issue PSD Permit Modification, Technical Evaluation and Preliminary Determination, and the draft PSD permit modification) was sent by certified mail (\*) and copies were mailed by U.S. Mail before the close of business on 5-3-00 to the person(s) listed:

Daniel Kleman, County Administrator \*  
Mayor, City of Tampa  
Gregg Worley, EPA  
John Bunyak, NPS  
Rebecca S. Bigari, OMS  
Jerry Campbell, HCEPC  
Bill Thomas, DEP SWD

Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED**, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

 5-3-00  
(Clerk) (Date)

**PUBLIC NOTICE OF INTENT TO ISSUE PSD PERMIT MODIFICATION**

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DEP File No. 0570261-002-AC (PSD-FL-121C)

Hillsborough County Resource Recovery Facility  
Hillsborough County

The Department of Environmental Protection (Department) gives notice of its intent to issue a modification of the permit for the Prevention of Significant Deterioration of Air Quality (PSD Permit) to Hillsborough County to revise and clarify several specific conditions applicable to its resource recovery facility located at 350 Falkenburg Road, Tampa, Hillsborough County. The changes do not require further review pursuant to PSD and a Best Available Control Technology determination was not required pursuant to Rule 62-212.400., F.A.C. The applicant's name and address are Hillsborough County, 601 East Kennedy, Tampa, Florida 33602.

The facility consists of three nominal 400 ton per day mass burn furnaces, waterwall boilers, ash discharge systems, air pollution equipment, and a single three-stage steam turbine with an electrical generator. A required project is nearly complete at the facility to reduce emissions of acid gases, particulate matter, ozone precursors, and hazardous air pollutants.

The facility has requested a number of changes to its PSD permit. These will clarify and simplify the description, actual operational limits, and averaging times applicable to the facility. These include, for example, heat input rates, electrical power capacity, mass throughput, etc. Total emissions of pollutants will not increase as a result of this modification. An air quality impact analysis was conducted when the facility was originally authorized. Another analysis was not required.

The Department will issue the final PSD permit modification with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments and requests for public meetings concerning the proposed action for a period of 30 (thirty) days from the date of publication of this Public Notice of Intent to Issue PSD Permit modification. Written comments and requests for public meetings should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed PSD permit modification and require, if applicable, another Public Notice.

The Department will issue the PSD permit modification with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below. Mediation is not available in this proceeding.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than

**NOTICE TO BE PUBLISHED IN THE NEWSPAPER**



those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Dept. of Environmental Protection Bureau of Air Regulation Suite 4, 111 S. Magnolia Drive Tallahassee, Florida, 32301 Telephone: 850/488-0114 Fax: 850/922-6979	Environmental Protection Commission of Hillsborough County 1410 North 21 Street Tampa, Florida 33605 Telephone: 813/272-5530 Fax: 813/272-5605	Dept. of Environmental Protection Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619-8218 Telephone: 813/744-6100 Fax: 813/744-6084
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The complete project file includes the application, technical evaluations, draft PSD permit modification, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Administrator, New Source Review Section at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/488-0114, for additional information.

NOTICE TO BE PUBLISHED IN THE NEWSPAPER

TECHNICAL EVALUATION  
AND  
PRELIMINARY DETERMINATION

HILLSBOROUGH COUNTY RESOURCE RECOVERY FACILITY  
TAMPA, HILLSBOROUGH COUNTY, FLORIDA

Resource Recovery Facility  
Modifications to PSD Permit

PSD-FL-121(C)  
Facility ID No. 0570261

Department of Environmental Protection  
Division of Air Resources Management  
Bureau of Air Regulation

May 3, 2000

# TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

## 1. APPLICATION INFORMATION

### 1.1 Applicant Name and Address

Hillsborough County  
601 E. Kennedy  
Tampa, Florida 33602

### 1.2 Reviewing and Process Schedule:

04-05-00: Date of receipt of modification request  
04-05-00: Application deemed complete/sufficient  
05-03-00: Issued Intent

## 2. FACILITY INFORMATION

### 2.1 Facility Location

The Hillsborough County Resource Recovery Facility is located at 350 Falkenburg Road in Tampa. This site is between 75 and 100 kilometers from the Chassahowitzka National Wilderness Area, a Class I PSD Area. The UTM coordinates of this facility are Zone 17, 368.20 km East and 3092.70 km North.



# TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

## 2.2 Standard Industrial Classification Codes (SIC)

Major Group No.	49	Electric, Gas and Sanitary Services
Industry Group No.	495	Sanitary Services
Industry Group No.	4953	Refuse Systems

## 2.3 Facility Category

This facility makes electricity by burning solid waste in three furnaces, recovering the heat as steam, and expanding it in a steam electrical generator. The solid waste burned is typically characterized as "refuse such as trash and garbage" or as municipal solid waste (MSW). The facility is permitted to burn up to a maximum of 460 tons per day (400 TPD on an average annualized basis) in each of three units. Certain segregated wastes consisting of materials typically found in MSW are mixed into the waste while maintaining the overall characteristics of the waste within the typical ranges of heat and moisture content as well as emission characteristics. The electricity is sold to Tampa Electric Company.

The facility is classified as a major or Title V source of air pollution because emissions of at least one regulated air pollutant, such as particulate matter (PM/PM<sub>10</sub>), sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), or volatile organic compounds (VOC) exceed 100 tons per year (TPY). It is also a major source because emissions of air toxics, such as hydrogen chloride (HCl) or hydrogen fluoride (HF), exceed 10 TPY individually or 25 TPY in the aggregate.

Municipal incinerators are included in the list of the 28 Major Source Categories per Table 62-212.400-1, F.A.C. Because emissions are greater than 100 TPY for at least one criteria pollutant, the facility is also a major facility with respect to Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD).

Per Table 62-212.400-2, modifications at existing major facilities resulting in "Significant Emission Rate" increases greater than: 100 TPY of CO; 40 TPY of NO<sub>x</sub>, VOC, or SO<sub>2</sub>; 25/15 TPY of PM/PM<sub>10</sub>; 7 TPY of sulfuric acid mist (SAM); 0.1 TPY of mercury (Hg); 3 TPY of fluorides (F), or 0.6 TPY of lead (Pb) also require a PSD permit and a BACT determination.

A PSD permit was issued for this facility, including a determination of Best Available Control Technology (BACT), by the United States Environmental Protection Agency (EPA) on July 7, 1986. Modifications to the PSD permit, were issued on October 14, 1987, January 20, 1995 and June 29, 1998.

The modification of June 29, 1998 was to to upgrade the air pollution control system to comply with 40CFR60, Subpart Cb - Emission Guideline and Compliance Times for Municipal Waste Combustors That Are Constructed on or Before December 19, 1995.

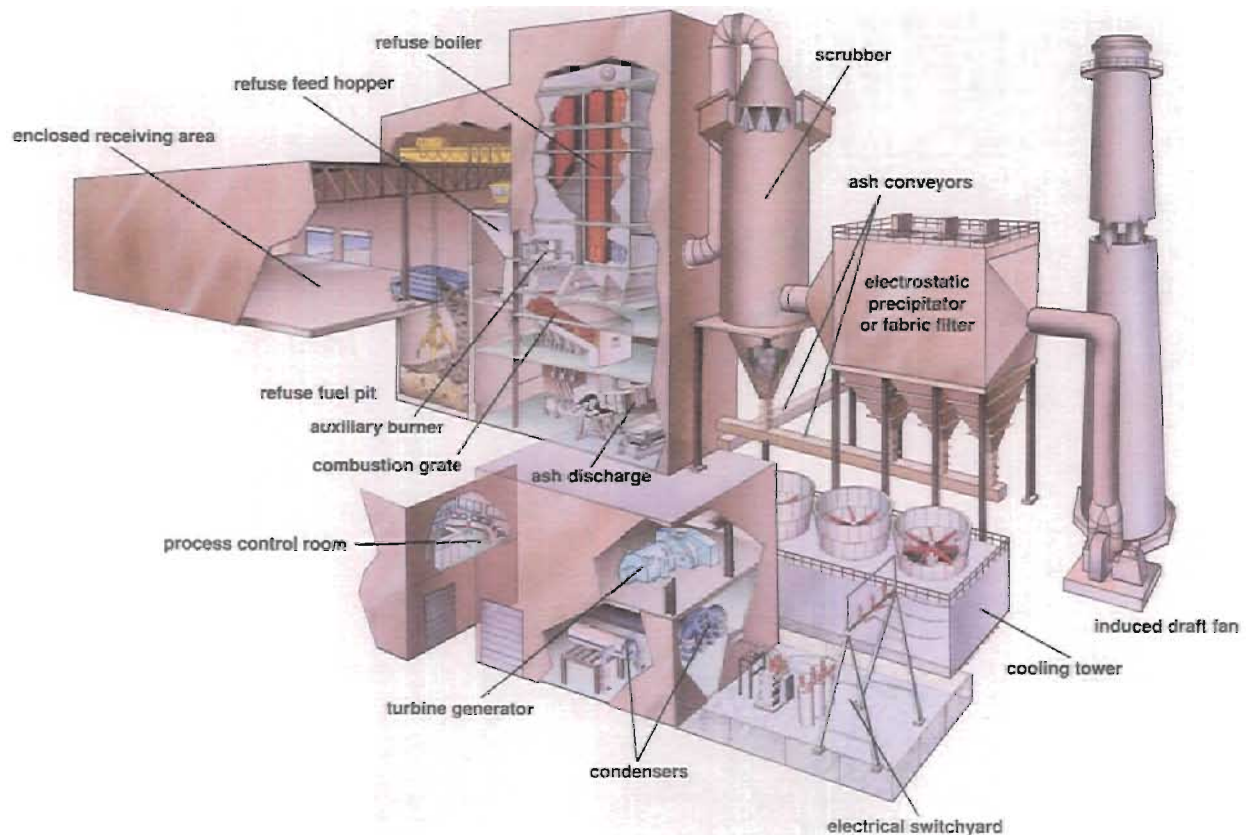
In addition to the physical changes required for the upgrade of the pollution control system, a number of revisions were requested which required modifications of the existing Permit PSD-FL-121 issued on July 7, 1986. These revisions included:

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

- Increasing the rated short-term capacity of each unit from 440 to 460 TPD, heat input from 165 to 172.5 million Btu per hour (mmBtu/hr), and setting steam flow at 102,000 pounds per hour (lb/hr).
- Providing for combustion of segregated waste streams and defining more precisely the types of wastes that may be burned.

### 3. PROCESS DESCRIPTION

The facility is a waste-to-energy installation employing mass burning of solid waste, heat recovery as superheated steam, and power generation in a steam electric cycle. Other than landfilling, this is the most common method of solid waste disposal in the United States. There are twelve such facilities in the State of Florida. Following is a description and a diagram of a typical waste-to energy process.



Waste is received via transfer, roll-off, or collection vehicles. Upon arrival, each vehicle is weighed at the scale house and the waste is categorized. Any unacceptable waste is diverted at this time. All acceptable waste is taken to the Refuse Receiving Building, where it is deposited onto the tipping floor or into the Refuse Storage Pit. The refuse is stored at this location until needed to charge the combustion units.

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

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Charging of the combustion units is accomplished using overhead cranes equipped with "orange peel" grapples. These stack, mix, and relocate waste within the pit and transfer it into the feed hoppers serving each unit. The waste enters the three refuse-fired steam generators, each of which consists of an integrated mass-burn stoker furnace and waterwall boiler. Hydraulically operated feeders push the waste onto "stoker grates". The stoker grates are sloped downward and operate with a reverse-reciprocating action which agitates the burning refuse and moves it along the grates.

Combustion air is drawn from the refuse tipping area (assisting in odor control) and conveyed through the gas side of the air preheater and into the refuse-fired generators where the waste is combusted. Exhaust gases from the refuse-fired generators pass through an economizer unit and are ducted to the air pollution control system that presently consists of an electrostatic precipitator (ESP) but that will be replaced by the system shown in the diagrams. Treated gases are exhausted to the atmosphere through three individual flues within a single 220 foot stack. Bottom ash from the furnaces is removed, quenched and processed for metal recovery and disposal.

The superheated steam enters a single, three-stage turbine where it is expanded. The turbine powers a single 29 megawatt (nameplate rated capacity) electric power generator. The electric power is introduced into the electrical grid and is purchased by Tampa Electric Company. Exhaust steam from the turbine is condensed and the water is cooled in an evaporative cooling tower. Tower blowdown is sent to the sanitary sewer and make-up water to the tower is provided from a sewage treatment plant. Boiler make-up water is provided from the municipal water supply. It undergoes treatment including demineralization. It is transferred to the deaerator, which also receives water from the condensers, air preheaters, and feedwater heaters. Boiler feedwater is provided from the deaerator.

#### 4. PROJECT DESCRIPTION

The County proposed the following revisions to the specific conditions of PSD-FL-121B. The County's requests prepared by Ogden Martin Systems of Hillsborough County (OMSHC) and the Department's responses follows:

##### Subsection A. Facility Description.

*Please reword the permit to read that "the Facility generates electricity, and has an electrical generator capable of generating 32.5 MW for the entire Facility."*

The original application, previous Department technical evaluations, and written statements from OMSHC refer to an electrical generating capacity of 29 MW. Because of the confusion and the fact that the power generating capacity was not given as a permit condition, it will be deleted from the description of the facility. OMSHC provided a picture of the nameplate and a datasheet showing the actual rating as 37.65 MW @0.85 Power Factor. This equates to 32 MW at unity.

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

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### Page 4, Subsection B.1.

*Please reword the first sentence that: "the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application." It is respectfully requested that the permit be revised to state: "Unless otherwise indicated in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and design specifications stated in the application. Operation of the facility shall be in accordance with the emission limits specified in this permit."*

The Department will modify this condition to exclude the word capacities and operation as stated above since this permit is for the installation/upgrading of the new control equipment and did not change the capacities or operation of the units. The permit solely clarified those capacities.

### Page 6, Subsection A.

*As stated in our January 11, 2000 comment letter on the draft Title V permit, the regulatory language in 40 CFR 61, Subpart C indicates that the beryllium NESHAPS is not applicable to this facility. The Hillsborough County WTE facility does not accept any of the beryllium-containing wastes listed in the rule. It is our understanding that only incinerators that accept beryllium-containing waste generated by those source categories are affected by the rule. Therefore, we respectfully request deletion of all permit references to beryllium including emissions limits and testing requirements (Section III, Subsection B.8 on Page 12; page 42, Subsection C.29; Table 2-1).*

References to the 40 CFR 61, Subpart C, National Emissions Standards for Beryllium, will be deleted from the permit since the County has assured the Department that they do not accept "beryllium containing waste." EPA determined that 40 CFR 61, Subpart C is not applicable to municipal solid waste incinerators (MSWI) unless the MSWI burns "beryllium containing waste" as defined in the 40 CFR 61, Subpart C. However, the Department will not remove the Be limits as discussed below.

On page 14 of the Technical Evaluation and Preliminary Determination (TEPD) dated January 27, 1998, the Department stated: "Based on the results of the previous testing and the installation of control equipment, the Department expects Be emissions to remain below PSD significant levels and probably below detectable levels. However, a comparison of past actual to future potential emissions still results in a PSD-significant increase in Be emissions. The County will need to make demonstrations a PSD-significant increase did not occur by reporting future representative actual annual emissions."

Furthermore, in the Final Determination dated June 29, 1998, the Department stated: ".....annual test requirements for Be and F (the test results will be evaluated for at least a 5 year period), for the reasons stated in the Technical Evaluation (refer to sections 7 and 8 of this technical evaluation)". Therefore, the Be emission limits will not be deleted at this time. This is a BACT requirement of the original permit. As explained in the Final Determination, the Department will evaluate the facility Be test results (for at least a 5 years period) prior to considering the County request to delete this limit.

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

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### Page 7. Subsection B. Specific Conditions, Permitting Note.

*This requests that the "shall not be exceeded" language regarding net steam energy either be deleted entirely or rephrased to indicate that "The facility has a design net steam energy of 1158 Btu/lb". Net steam energy is not a defined regulatory term under Federal Subpart Cb regulations or State regulations. Unlike steam load or boiler feedwater, net steam energy is a calculated value and cannot be monitored on a real time basis. CDM's January 9, 1999 letter to FDEP presented sample calculations with assumptions designed to illustrate the relationship between steam flow and heat input – not as a proposed "not to exceed" value or operations limit. CDM's sample calculation included boiler design values for steam enthalpy (1378.86 Btu/lb) and feedwater enthalpy (220.82 Btu/lb).*

The Department will revise the language in the permit permitting note to read that the facility has a design net steam energy of 1158 Btu/lb (1378.86Btu/lb steam enthalpy - 220.82 Btu/lb feedwater enthalpy).

### Page 7. Subsection B.2 (a)

*Please delete reference to "172.5 MMBtu per hour" as a maximum operating rate. The relationship between heat input, steam load and MSW throughput was clearly documented in CDM's 1997 application. Heat input is not directly measurable and is redundant to other, more direct, measurements of processing rates that limit MSW processing capacity. Since this value is not directly measurable, it is not practicably enforceable and it is respectfully requested that it be deleted as an operational limitation.*

The Department will delete this reference since it is already stated as a permitting note and it was not included in the original PSD permit as a permit condition. We concur that this issue (heat input, steam load and MSW throughput relationship) was documented in the application and explained at length in the Technical Evaluation & Preliminary Determination dated January 27, 1998. It is a fact that each unit has a nominal heat input of 150 mmBtu/hr and a maximum heat input of 172.5 mmBtu/hr. These values although not directly measured can be easily calculated. By letter dated March 17, 1998, D.B Riley, Inc. (boilers' manufacturer) indicated that it performed an evaluation of each boiler's ability to operate at the proposed increase steam flow of 102,000 lb steam/hr and concluded that each boiler can safely operate at an increased continuous steam generation rate of 103,700 lb steam/hr. The maximum steam load recommended by the manufacturer shall not be exceeded. The Department acknowledges that 40 CFR Subpart Cb regulates only steam load.

### Page 7, Subsection B.2 (b)

*Please delete the combustion efficiency (CE) requirement; it was not requested by CDM in its construction permit application. CE is not a regulatory requirement under either federal Subpart Cb standard or applicable State regulations. CO is a surrogate for measuring combustion efficiency and Subpart Cb requires continuous CO monitoring. In that context, inclusion of CE in this permit is obsolete and redundant. Since Subpart Cb requires substantial reduction of carbon monoxide relative to prior PSD limits – along with installation of a continuous emissions monitor (CEMS) for CO, the new CO limit and*



## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

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*CEMS equipment are more than adequate to document ongoing compliance with federal/state good combustion practice requirements.*

The Department accepts the County rationale and deletes this condition from permit PSD-FL-121B

Page 10, Section III, B.6.6, B.6.7, and B.25 (page 21).

*Please substitute "monthly average" for 30 day rolling average calculation of segregated waste since normal facility recordkeeping procedures are done on a calendar month basis (and amend condition B.25 accordingly). The imposition of a 30-day rolling average requirement requires daily calculation of this value and imposes an unnecessarily burdensome additional recordkeeping requirement. A monthly block average eliminates added recordkeeping time/cost.*

This condition will be changed to read "on a calendar month basis". The Department accepts the County rationale.

Page 11, Section III, B.6.

*With respect to segregated wastes, Mr. Drew Lehman of Ogden and Mr. Joseph Kahn of FDEP recently spoke by telephone about the Department's intent in listing specific approved waste streams in the permit. Mr. Kahn indicated that the intent is that no further Department approval will be needed for those wastes. It would be very helpful if the amended PSD permit contain a clarifying statement to the effect that "Waste materials specifically authorized above do not require Department approval ". While DEP's approval is implicit in the permit as currently worded, an explicit statement will be most appreciated to minimize potential confusion and future questions on this point of regulatory intent.*

The statement "Waste materials specifically authorized above do not require Department approval", will be added after subsections (a) through (g) of Specific Condition B.6.7. However, waste materials that require approval listed in subsection (h) will remain unchanged, this is:

- (h) Waste materials generated by manufacturing, industrial or agricultural activities, provided that these items or materials are substantially similar to items or materials that are found routinely in MSW, subject to prior approval of the Department.

Page 12, Section III, B.8.

*It is requested that this Table of emission limits be revised as follows. Please delete the lb/MMBtu and lb/hr columns since they are derived directly from and therefore wholly redundant to the tons per year (TPY) column. The TPY values in the permit are based upon and consistent with emission factor estimates in CDM's 1997 application. The TPY values were developed for the application using CDM's theoretical, proprietary "BURN" model calculation and presented as part of CDM's "netting" and air quality modeling analyses - not as not-to-exceed permit limits.*

The Department will revise this Table to indicate that the emission limits on lb/hr, lb/mmBtu, TPY are referenced as equivalent emissions. These equivalent emissions limits are listed for

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

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the purposes of providing information on the potential to emit, to be use in future PSD applicability determinations, to determine short-term emissions limits, to be used in the Department database and to assess Title V fees. In the case of the municipal solid waste combustors, compliance should be demonstrated in units of the standard, this is 40 CFR 60, Subpart Cb units.

*Sulfuric acid mist. The limit for and testing of sulfuric acid mist was specifically eliminated via PSD-FL-121 (A). The Department's January 27, 1998 Technical Evaluation and Preliminary Determination report noted that "the (H<sub>2</sub>SO<sub>4</sub>) limit appears to have been deleted instead " (page 8). That report also states that "injection of ammonia or urea for NO<sub>x</sub> control will further suppress SAM emissions and possibly interfere with their measurement." Since this permit condition was formally eliminated via a prior PSD permit change, and recognizing the potential for test interference, it is respectfully requested that all references to an H<sub>2</sub>SO<sub>4</sub> limit and all requirements for testing be eliminated from the permit (i.e. Table B.8, Section III, B.9 and Method 8 reference)*

The sulfuric acid mist (SAM) emission limit will not be deleted. The Department already determined that an initial test is required as stated in the TEPD and Final Determination issued in 1998. The protocol and method should be submitted to the Department as stated in the Technical Evaluation and Preliminary Determination (TEPD). Specific Conditions that refer to SAM emissions will not be modified.

Page 16, Subsection B.17 (a)

*This requests that the deadline for the annual report documenting compliance with the 10% annual fuel capacity factor limitation be extended to 60 days after the end of the calendar year. This is a professional courtesy to allow sufficient time to compile information given a typical crush of end-of-year data compilations.*

The Department accepts the County rationale and changes this condition as requested.

Page 17, Subsection B.18.

*Technically, steam production, baghouse inlet temperature measurement, carbon injection system, and power generation monitors are not "CEMS" in the sense of gaseous pollutants. There are no federal (40 CFR 60 Appendix B & F) or State calibration and maintenance requirements for these devices. Please rephrase the permit to indicate that: "These operational data monitoring systems shall be calibrated annually and operated in accordance with good engineering practice."*

The Department accepts the County rationale and changes this condition as requested.

Page 18, Subsection B. 20.

*Typo in second line, change to "the following date".*

The Department accepts the County observation and changes this condition as requested.

# TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

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## 5. RULE APPLICABILITY

This change constitutes a minor modification of PSD permit number PSD-FL-112B. Therefore the modification is not subject to review under Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD), so neither a revised Best Available Control Technology (BACT) determination nor an analysis of the air quality impact is required. However, because this project requires a modification of a PSD permit, the public notice requirements for PSD permits are applicable.

The facility is located in an area (Hillsborough County) designated "unclassifiable" for SO<sub>2</sub>, "maintenance" for Ozone (O<sub>3</sub>), PM, and lead (Pb), and "attainment" for all the other criteria pollutants (Rule 62-204.360, F.A.C.). One of the requirements under the maintenance plan for the area is implementation of Reasonable Available Control Technology (RACT) pursuant to Rule 62-296.711, F.A.C. The Department previously found that the requirements of permit number PSD-FL-112B constitute RACT for particulate matter, pursuant to Rule 62-296.711(2)(c), F.A.C. This project will not change these requirements.

The facility shall comply with all applicable requirements of Chapter 403, Florida Statutes, and Chapters 62-4, 62-17, 62-204, 62-210, 62-212, 62-214, 62-256, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.).

This facility shall comply with all applicable provisions of the federal regulations including but not limited to: 40 CFR 60 Subpart Cb Emissions Guidelines and Compliance Times for Existing Municipal Waste Combustors Constructed on or Before December 19, 1995; 40 CFR 51 Subpart P, Protection of Visibility; 40 CFR 52.21 Prevention of Significant Deterioration; 40 CFR 60, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units; 40 CFR 60, Subpart E, Standards of Performance for Incinerators; 40 CFR 60, Subpart A, General Provisions; 40 CFR 64, Compliance Assurance Monitoring; 40 CFR 50, National Primary and Secondary Ambient Air Quality Standards.

This facility is also subject to all applicable requirements related to used fuels and wastes given in 40 CFR 279 and 40 CFR 261 (July 1999 version), which are adopted by reference in Chapters 62-710 and 730, F.A.C.

## 6. CONTROL TECHNOLOGY ASSESSMENT

The control technology for this facility and the reasonably available control technology (RACT) were discussed in the Technical Evaluation and Preliminary Determination of January 27, 1998.

## 7. CONCLUSION

Based on the technical evaluation of the request, the Department has reasonable assurance that the project will comply with all applicable state and federal air pollution regulations provided the allowable emissions limits are not exceeded and certain conditions are met. The modified specific conditions are listed in the attached draft conditions of approval.

## **TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION**

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For further details regarding this review, contact:

Teresa Heron, Review Engineer or  
A. A. Linero, P.E. Administrator  
New Source Review Section  
Bureau of Air Regulation  
850/921-9523  
teresa.heron@dep.state.fl.us

**PSD PERMIT MODIFICATION  
PSD-FL-121 (C) AND PA 83-19**

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**SPECIFIC CONDITIONS**

**PSD-FL-121B is hereby modified as follows:**

**SECTION II**

**SUBSECTION B. CONSTRUCTION REQUIREMENTS**

**B.1** Unless otherwise indicated in this permit, the construction and operation of the subject emissions unit (s) shall be in accordance with the ~~capacities and~~ design specifications stated in the application. Operation of the facility shall be in accordance with applicable provisions of the 40 CFR 60, Subpart Cb and with the emissions limits and process operating rates specified in the permit.

The facility is subject to all applicable provisions of Chapter 403, F.S. and Florida Administrative Code Chapters 62-4, 62-103, 62-204, 62-212, 62-213, 62-296, 62-297 and the Code of Federal Regulations Section 40, Part 60, adopted by reference in the Florida Administrative Code (F.A.C.) regulations [Rule 62-204.800, F.A.C.] Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting or regulations [Rule 62-210.300, F.A.C.].

**SECTION III**

**SUBSECTION B. SPECIFIC CONDITIONS:**

The following Specific Conditions apply to the following emissions units after improvements to comply with 40 CFR Subpart Cb are completed.

<b>EMISSIONS UNIT NO.</b>	<b>EMISSIONS UNITS DESCRIPTION</b>
001	150 MMBtu/hr (nominal) Municipal Waste Combustor & Auxiliary Burners - Unit No.1
002	150 MMBtu/hr (nominal) Municipal Waste Combustor & Auxiliary Burners - Unit No.2
003	150 MMBtu/hr (nominal) Municipal Waste Combustor & Auxiliary Burners - Unit No.3

{**Permitting Note:** Each of the three municipal waste combustor (MWCs) shall have a nominal design rate capacity of 400 tons MSW per day, 150 MMBtu per hour (excluding 9.9 MMBtu/hr from the combustion air preheaters) and 94,270 pounds steam per hour with MSW having a heating value of 4,500 Btu per pound. The "operating window" of 115 percent (%) over the nominal design rate of 150MMBtu heat input corresponds to 172.5 MMBtu/hr heat input and 102,000 lb steam/ hour per each boiler. By letter dated March 17,1998, D.B Riley, Inc. (boilers' manufacturer) indicated that it performed an evaluation of each boiler's ability to operate at the proposed increase steam flow of 102,000 lb steam /hr and concluded that each boiler can safely operate at an increased continuous steam generation rate of 103,700 lb steam/hr. Short-term capacity is limited by limiting steam production (102,000 lb/hr), which effectively limits heat input. ~~The net steam energy of 1378.86 Btu/lb shall not be exceeded.~~ The facility has a design net steam energy of 1158 Btu/lb (1378.86 Btu/lb steam enthalpy – 220 Btu/lb feedwater enthalpy).

**PSD PERMIT MODIFICATION  
PSD-FL-121 (C) AND PA 83-19**

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**B.2 Process Operating Rates**

(a) The maximum individual MWC throughput shall not exceed 460 tons MSW per day (1380 tons per day entire facility), ~~172.5 MMBtu per hour~~ and 102,000 pounds steam per hour (on a 4-hour block arithmetic average). The incinerators/boilers shall not be loaded in excess of their maximum operating capacity, equivalent to 1380 tons MSW per day total, but no more than 1200 tons MSW per day on an annual (52 week rolling average) average basis for the entire facility. (Compliance per Specific Conditions B.13 and B.14)

[Rule 62-204.800(8), F.A.C., 40 CFR 60.31b; 60.38b; 60.51b, and 60.58b(j)]  
[PSD-FL-121(A)/PA 83-19 and Rule 62-4.030(3), F.A.C.]

~~(b) Combustion efficiency shall be calculated by:  $\%CE = [1 / (1 + (CO/CO_2))] \times 100$ , and shall be at least 99.5% for an 8-hour average.~~

**B.6.1** Subject to the limitations contained in this permit, the authorized fuels for the facility also include the other solid wastes that are not MSW which are described below. However, the facility shall not knowingly burn:

- (a) those materials that are prohibited by state or federal law;
- (b) those materials that are prohibited by this permit;
- (c) lead acid batteries;
- (d) hazardous waste;
- (e) nuclear waste;
- (f) radioactive waste;
- (g) sewage sludge;
- (h) Explosives.
- (i) beryllium containing waste as defined in 40 CFR 61.31(g).

**B.6.6** Subject to the conditions and limitations contained in this permit waste tires may be used as fuel at the facility. The total quantity of waste tires received as segregated loads and burned at the facility shall not exceed 3%, by weight, of the facility's total fuel. Compliance with this limitation shall be determined ~~by using on a rolling 30-day~~ calendar month basis average in accordance with specific condition No. B.25 below.

**B.6.7** Subject to the conditions and limitations contained in this permit, the following other solid waste materials may be used as fuel at the facility (i.e. the following are authorized fuels that are non-MSW material). The total quantity of the following non-MSW material received as segregated loads and burned at the facility shall not exceed 5%, by weight, of the facility's total fuel. Compliance with this limitation shall be determined ~~by using on a rolling 30-day~~ calendar month basis average in accordance with specific condition No. B.25 below.

- (a) through (g) No change
- (h) Waste materials generated by manufacturing, industrial or agricultural activities, provided that these items or materials are substantially similar to items or materials that are found routinely in MSW, subject to prior approval of the Department.
- (i) Waste materials specifically authorized in (a) through (g) above do not require Department approval.

**PSD PERMIT MODIFICATION  
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**EMISSIONS LIMITATIONS**

**B.8** The following maximum emissions limits shall not be exceeded:

POLLUTANT	40 CFR 60, SUBPART Cb EMISSION STANDARDS	EQUIVALENT EMISSIONS		
		LB/MMBtu	LB/HR	TON/YR
<b>PM10</b> <sup>(1)</sup> Particulate Matter	27 mg/dscm or 0.012 gr/dscf corrected to 7% O <sub>2</sub>	0.024	4.1	17.96
<b>VE</b> Visible Emissions	10% (6 min. block avg.)			
<b>Cd</b> Cadmium	0.040 mg/dscm corrected to 7% O <sub>2</sub>	3.47E-05	6.00E-03	0.026
<b>F</b> Fluorides	6.74 mg/dscm corrected to 7 % O <sub>2</sub>	0.0059	1.00	4.43
<b>Be</b> <sup>(3)</sup> Beryllium	1.48 ug/dscm corrected to 7 % O <sub>2</sub>	1.27E-06	2.18E-04	9.6E-04
<b>Pb</b> Lead	0.44 mg/dscm corrected to 7% O <sub>2</sub>	3.81E-04	0.065	0.288
<b>Hg</b> Mercury	70 ug/dscm or 85% reduction by weight corrected to 7% O <sub>2</sub> (whichever is less stringent)	1.17E-04	0.020	0.087
<b>SAM</b> Sulfuric Acid Mist	To be demonstrated initially. Not to exceed 0.072 gr/dscf corrected to 12 % CO <sub>2</sub>			
<b>SO<sub>2</sub></b> <sup>(5)</sup> Sulfur Dioxide	29 ppmvd or 75% reduction by weight or volume corrected to 7% O <sub>2</sub> (whichever is less stringent)	0.190	32.86	143.9
<b>HCl</b> <sup>(5)</sup> Hydrochloric Acid	29 ppmvd or 95% reduction corrected to 7% O <sub>2</sub> (whichever is less stringent)	0.099	17.00	74.43
<b>Dioxins/Furans</b>	30 ng/dscm corrected to 7% O <sub>2</sub>	2.60 E-08	4.5E-06	1.96E-05
<b>CO</b> Carbon Monoxide	100 ppmv corrected to 7% O <sub>2</sub>	0.101	17.4	76.26
<b>NOx</b> <sup>(2)</sup> Nitrogen Oxides	205 ppmv corrected to 7% O <sub>2</sub>	0.34	58.63	256
<b>VOC</b> <sup>(4)</sup> Volatile Organic Compounds	To be demonstrated during the initial performance test.			

These maximum allowable emission rates are applicable to each MWC combustor unit. [Rules 62-4.030, and 62-296.416, F.A.C., 40 CFR 60.52b and 40 CFR 60.53b(b)]

**Permitting Note: These equivalent emissions (lb/hr and lb/mmBtu) are listed for the purposes of providing information, to indicate the potential to emit (TPY) and are not emission compliance standards.**

**Notes:**

- (1) This limit for PM is more restrictive than the emission limit for PM in 40 CFR 60.43b
- (2) The NOx standard of 40 CFR 60.44b do not apply to these emissions units because this permit subjects this facility to a federally enforceable requirement that limits the facility to an annual capacity factor of 10 percent or less for natural gas

## PSD PERMIT MODIFICATION PSD-FL-121 (C) AND PA 83-19

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- (3) Beryllium: NESHAP, 40 CFR 61.32 (a) (Subpart C). This limit is adjusted downward to produce no net increase in the annual maximum potential emission rate. Refer to Table 1.1 of the application submitted on September 16, 1997.
- (4) VOC emission limit: 0.01 gr/dscf corrected to 12 % CO<sub>2</sub> or 0.2 lb/ton, whichever is more restrictive (PSD-FL-104).
- (5) Emission limits in terms of lbs/ MMBtu or lb/hr for those pollutants which have an emission standard expressed, in part by a percent removal efficiency, shall also be dictated by the percent removal provision.

Basis: Emissions calculations (lb/hr and ton/yr) are based on the maximum heat input rate of 172.5 MMBtu/hr (102,000 lb steam/hr) per unit and 8760 hours of operation.

### Averaging Times

SO<sub>2</sub>: 24-hour daily block geometric mean (midnight to midnight)

NO<sub>x</sub>: 24-hour daily block arithmetic mean (midnight to midnight)

CO: 4-hour block arithmetic mean beginning at midnight

Opacity: 6 minutes block arithmetic mean

### Abbreviations

ug/dscm: Micrograms per dry standard cubic meter

mg/dscm: Milligrams per dry standard cubic meter

ppmdv: Part per million dry volume

ng/dscm: Nanograms per dry standard cubic meter

Dioxins/ furans: Total tetra through octa-chlorinated dibenzo-p dioxins and dibenzofurans

F: Fluorides as hydrogen fluoride

Temperature: 17° C above maximum demonstrated PM control device inlet

Auxiliary Burners: Nitrogen oxides emission from the auxiliary burners are expected to approximately be 3.45 lb/hr and 15.1 ton/yr per unit. These emissions are part of, and not in addition to, combustor emissions.

Allowable emissions for MSW combustors include auxiliary burners. This facility is limited to a 10 percent (0.10) or less total annual gross heat input for natural gas consumption. Auxiliary burners for each MWC unit shall be fired only by natural gas, and consumption of natural gas shall not exceed 104,937,500 cubic feet per MWC unit in any calendar year (i.e., annual capacity factor for natural gas of 10% or less as determined by 40 CFR 60.44b(d).

[40 CFR 60.44b, Rule 62-210.200, 62-204.800 (8) and 62-4.070(3), F.A.C.]

## B.9 Stack Testing

Compliance tests [initial (I) and annual (A)] for SO<sub>2</sub>, NO<sub>x</sub> and CO shall be conducted pursuant to 40 CFR 60.58b Compliance and Performing Testing.

Compliance tests [initial (I) and annual (A) as indicated in Specific Condition No. B.8] for PM, HCl, Dioxin/furans, F, Be, Pb, Cd, Hg, H<sub>2</sub>SO<sub>4</sub> mist (SAM), VOC and VE shall be performed by using the following reference methods as described in 40 CFR 60, Appendix A and/or 40 CFR 61 Appendix B adopted by reference in Chapter 62-204, F.A.C., or any other method as approved by FDEP, in accordance with Chapter 62-297, F.A.C.

Stack tests may also require Method 1, 2, 3/3A/3B and 4 tests as appropriate. A test protocol shall be submitted for approval to the Department's Southwest District office (DEPSWD) and the Hillsborough County Environmental Protection Commission (HCEPC) at least 45 days prior to initial testing. [Rule 62-204.800(8), F.A.C. and Chapter 62-297, F.A.C.]



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- Method 5<sup>(1)</sup>** Determination of Particulate Matter Emissions (front half catch only) from Stationary Sources (I) and (A).
- Method 8** Determination of Sulfuric Acid Mist from Stationary Sources (I).
- Method 9** Visual Determination of the Opacity of Emissions from Stationary Sources (I) and (A).
- Method 13A** Determination of Total Fluoride Emissions from Stationary Sources (I) and **or 13 B** (A).
- Method 18, 25 or 25a** Determination of Volatile Organic Concentrations (I).
- Method 23<sup>(2)</sup>** Determination of Dioxin/furan concentration from Stationary Sources (I) and (A).
- Method 26<sup>(3)</sup> or 26A** Determination of HCl emissions (I) and (A).
- Method 29<sup>(3)</sup>** Determination of Metals Emissions from Stationary Sources (I) and (A).

- (1) Pursuant to 40 CFR 60.58b(c)(3) EPA Reference Method 5 shall be used for determining compliance with the particulate matter emission limit. The minimum sample volume shall be 1.7 cubic meters. The probe and filter holder heating systems in the sample train shall be set to provide a gas temperature no greater than  $160 \pm 14$  °C. An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 5 run.
- (2) Dioxin/Furan emission limit expressed as the total mass of tetra- through octa chlorinated dibenzo-p-dioxins and dibenzofurans. The facility may perform less frequent testing for dioxin/furan emissions, as allowed by 40 CFR 60.38b(b) and with prior notice to the Department, if the facility's dioxin/furan emissions do not exceed 15 ug/dscm corrected to 7% O<sub>2</sub> or less for all MWC units.
- (3) HCl and mercury stack tests upstream and downstream of the control device (s) shall be conducted to calculate percent control.

Initial compliance tests for each combustion unit shall be conducted within 60 days after achieving maximum operating capacity, but not later than 180 days after startup. Annual tests shall be conducted within one year after the initial tests, unless otherwise allowed by the Department.

**B.17 Auxiliary Burners Compliance:**

- (a) Auxiliary burners for each unit shall be fired only by natural gas. The annual capacity factor for natural gas shall be 10 percent or less. Monthly records shall be maintained of the amount of natural gas used by the auxiliary burners in each unit and the equivalent gross heat input. On an annual basis (no later than ~~30~~ 60 days after the end of the calendar year), a demonstration must be performed based on the monthly records showing that the capacity factor for natural gas in each unit was 10 percent or less. The annual capacity factor for

**PSD PERMIT MODIFICATION  
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natural gas is the ratio between the heat input to the unit from natural gas and the potential heat input to the unit had it been operated for 8760 hours during a calendar year at the maximum steady state design heat input capacity. [Rule 62-4.070(3), F.A.C., and 40 CFR 60.44b(d)]

- B.18** Continuous Emission Monitoring System (CEMS): CEMS with recorders shall be installed, calibrated, maintained and operated for each unit subject to review by FDEP for the following pollutants and operational parameters:

Carbon Monoxide

Nitrogen Oxides

Opacity

Sulfur Dioxide

(SO<sub>2</sub> monitors shall be located both upstream of the scrubber and downstream of the baghouse, in order to calculate percent removal efficiency).

Oxygen.

Total steam production (lbs/hr, pressure, and temperature) or feedwater flow rate (lbs/hr).

Device to measure temperature of flue gases at the fabric filter inlet.

Carbon injection system operating parameters.

Power generation (MW).

Unless required in 40 CFR 60, Subpart Cb, operational data monitoring systems (steam production, baghouse inlet temperature measurement, carbon injection system and power generation) shall be calibrated annually and operated in accordance with good engineering practice.

[Rule 62-204.800(8), F.A.C.; Rule 62-4.070 (3), F.A.C.,and 40 CFR 60.58b]

- B.20** Reports and Records:

All measurements, records, and other data (test reports, etc.) required to be maintained by this facility shall be retained for at least five (5) years following the ~~data-~~ date on which such measurements, records, or data are recorded. These data shall be made available to the Department of Environmental Protection, Southwest District office and the Hillsborough County Environmental Protection Commission upon request. [Rule 62-4.070(3), F.A.C.; Rule 62-4.160(14)(b), F.A.C. and 40 CFR 60.59b]

The Permittee shall maintain a central file containing all measurements, records, and other data that are required to be collected pursuant to the various specific conditions of this permit. This file shall include but not be limited to:

(a) through (j) No change

**PSD PERMIT MODIFICATION**  
**PSD-FL-121 (C) AND PA 83-19**

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- B.25 Segregated Solid Waste Record Keeping: The following records shall be made and kept to demonstrate compliance with the segregated non-MSW percentage limitations of specific condition B.6:

Each segregated load of non-MSW materials, that is subject to the percentage weight limitation of specific conditions B.6.6 and B.6.7, which is received for processing shall be documented as to waste description and weight. The weight of all waste materials received for processing shall be measured using the facility truck scale and recorded.

Each day the total weight of *segregated tires* received shall be computed, and the daily total shall be added to the sum of the daily totals from the previous days in the current calendar month ~~29~~ days. At the end of each calendar month, ~~t~~The resultant monthly 30-day total weight of *tires* shall be divided by the total weight of all waste materials received in the same calendar month 30-day period, and the resultant number shall be multiplied by 100 to express the ratio in percentage terms. The percentage computed shall be compared to the 3% limitation.

Each day the total weight of *segregated non-MSW materials* received that are subject to the 5% restriction shall be computed, and the daily total shall be added to the sum of the daily totals from the previous days in the current calendar month ~~29~~ days. At the end of each calendar month, ~~t~~The resultant monthly 30-day total weight of *segregated non-MSW materials subject to the 5% restriction* shall be divided by the total weight of all waste materials received in the same calendar month 30-day period, and the resultant number shall be multiplied by 100 to express the ratio in percentage terms. The percentage computed shall be compared to the 5% limitation.

Florida Department of  
Environmental Protection

Memorandum

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TO: ~~Clair Fancy~~

THRU: Al Linero *Al Linero* 5/3

FROM: Teresa Heron

DATE: May 3, 2000

SUBJECT: Hillsborough County Resource Recovery Facility  
Air Pollution Control Equipment Project  
Permit Modification PSD-FL-121 (C) and 0570261-002-AC

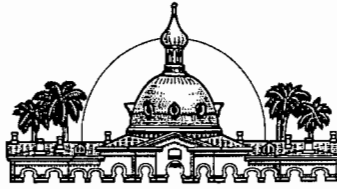
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Attached is a draft modification to the PSD permit (PSD-FL-121B) for this facility. This modification clarifies and revises some specific conditions of the permit issued in 1998. The changes are minor and do not increase the permit emissions limits. The changes will be incorporated into the final Title V permit or a subsequent revision of that permit.

We recommend your approval and signature.

AAL/th

Attachments



Hillsborough County  
Florida

Office of the County Administrator  
Daniel A. Kleman

June 7, 2000

RECEIVED

JUN 12 2000

BUREAU OF AIR REGULATION  
Deputy County Administrator  
Patricia Bean

Assistant County Administrators  
Edwin Hunzeker  
Jimmie Keel  
Anthony Shoemaker

BOARD OF COUNTY COMMISSIONERS

Pat Frank  
Chris Hart  
Jim Norman  
Jan K. Platt  
Thomas Scott  
Ronda Storms  
Ben Wacksman

C. H. Fancy, P. E., Chief  
Bureau of Air Regulation  
Department of Environmental Protection  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Re: Resource Recovery Facility  
DEP File No. 0570261-002-AC (PSD-FL-121C)

Dear Mr. Fancy:

Enclosed is the proof of publication for the "PUBLIC NOTICE OF INTENT TO ISSUE AIR PSD PERMIT MODIFICATIONS" as it relates to the above-referenced subject.

Should you have any questions concerning the documentation, please contact me at (813) 276-2909.

Sincerely,

Thomas G. Smith, Section Manager  
Management & Environmental Services  
Solid Waste Management Department

Enclosure

CC: T. Heron, BAR  
SWD  
Hillsborow Co.

**THE TAMPA TRIBUNE** **RECEIVED**  
**Published Daily**  
**Tampa, Hillsborough County, Florida** JUN 12 2000

State of Florida }  
 County of Hillsborough } ss.

BUREAU OF AIR REGULATION

Before the undersigned authority personally appeared J. Rosenthal, who on oath says that she is Classified Billing Manager of The Tampa Tribune, a daily newspaper published at Tampa in Hillsborough County, Florida; that the attached copy of advertisement being a

LEGAL NOTICE

in the matter of \_\_\_\_\_

PUBLIC NOTICE OF INTENT

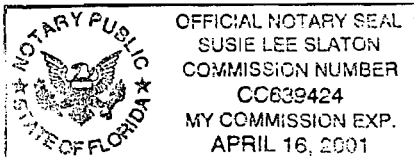
was published in said newspaper in the issues of \_\_\_\_\_

MAY 28, 2000

Affiant further says that the said The Tampa Tribune is a newspaper published at Tampa in said Hillsborough County, Florida, and that the said newspaper has heretofore been continuously published in said Hillsborough County, Florida, each day and has been entered as second class mail matter at the post office in Tampa, in said Hillsborough County, Florida for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid nor promised any person, this advertisement for publication in the said newspaper.

Sworn to and subscribed by me, this 29 day  
 of MAY A.D. 2000

Personally Known  or Produced Identification \_\_\_\_\_  
 Type of Identification Produced \_\_\_\_\_



*Susie Lee Slaton*

PUBLIC NOTICE OF INTENT TO ISSUE PSD PERMIT MODIFICATION STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DEP File No. 0570261-002-AC (PSD-FL-121C) Hillsborough County Resource Recovery Facility Hillsborough County

The Department of Environmental Protection (Department) gives notice of its intent to issue a modification of the permit of Significant Deterioration of Air Quality (PSD Permit) to Hillsborough County to revise and clarify several specific conditions applicable to its resource recovery facility located at 350 Falkenburg Road, Tampa, Hillsborough County. The changes do not require further review pursuant to PSD and a Best Available Control Technology determination was not required pursuant to Rule 62-212.400, F.A.C. The applicant's name and address are Hillsborough County, 601 East Kennedy, Tampa, Florida 33602. The facility consists of three nominal 400 ton per day mass burn furnaces, waterwall boilers, ash discharge systems, air pollution equipment, and a single three-stage steam turbine with an electrical generator. A required project is nearly complete at the facility to reduce emissions of acid gases, particulate matter, ozone precursors, and hazardous air pollutants. The facility has requested a number of changes to its PSD permit. These will clarify and simplify the description, actual operational limits, and averaging times applicable to the facility. These include, for example, heat input rates, electrical power capacity, mass throughput, etc. Total emissions of pollutants will not increase as a result of this modification. An air quality impact analysis was conducted when the facility was originally authorized. Another analysis was not required. The Department will issue the final PSD permit modification with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions. The Department will accept written comments and requests for public meetings concerning the proposed action for a period of 30 (thirty) days from the date of publication of this Public Notice of Intent to Issue PSD Permit modification. Written comments and requests for public meetings should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station # 5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed PSD permit modification and require, if applicable, another Public Notice. The Department will issue the PSD permit modification with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below. Mediation is not available in this proceeding. A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 390 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petition filed by the permit applicant.

Hillsboro Co RRF

0570261-002-AC

PSO-FI-121C

or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code. A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays at:

Dept. of Environmental Protection  
Bureau of Air Regulation  
Suite 4, 111 S. Magnolia Drive  
Tallahassee, Florida, 32301  
Telephone: 850/488-0114  
Fax: 850/922-6979  
Environmental Protection  
Commission of Hillsborough County  
1410 North 21 Street  
Tampa, Florida 33605  
Telephone: 813/272-5530  
Fax: 813/272-5605  
Dept. of Environmental Protection  
Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8218  
Telephone: 813/744-6100  
Fax: 813/744-6084

The complete project file includes the application, technical evaluations, draft PSD permit modification, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Administrator, New Source Review Section at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/488-0114, for additional information.

3182

5/28/00

COMMISSION

PAT FRANK  
CHRIS HART  
JIM NORMAN  
JAN PLATT  
THOMAS SCOTT  
RONDA STORMS  
BEN WACKSMAN

EXECUTIVE DIRECTOR

ROGER P. STEWART



ADMINISTRATIVE OFFICES, LEGAL &  
WATER MANAGEMENT DIVISION  
1900 - 9TH AVENUE  
TAMPA, FLORIDA 33605  
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FAX (813) 272-5157

AIR MANAGEMENT DIVISION  
TELEPHONE (813) 272-5530

WASTE MANAGEMENT DIVISION  
TELEPHONE (813) 272-5788

WETLANDS MANAGEMENT DIVISION  
TELEPHONE (813) 272-7144

ENVIRONMENTAL PROTECTION COMMISSION  
of Hillsborough County

FAX Transmittal Sheet

DATE: 6-8-00

TO: Mrs. Teresa Heron

FAX Phone: 922-6979 Voice Phone: \_\_\_\_\_

TOTAL NUMBER OF PAGES INCLUDING THIS COVER PAGE: \_\_\_\_\_

EPC FAX Transmission Line: (813) 272-5605

For retransmission or any FAX problems, call: (813) 272-5530

FROM: EPC GABRIEL CASTAÑO

(Circle applicable section below)

Air Division

-Compliance

-Enforcement/Analysis

-Monitoring/Toxics

-Permitting

SPECIAL INSTRUCTIONS: Comment on Hillsborough County

Resource Recovery Facility



COMMISSION  
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TELEPHONE (813) 272-7004

EXECUTIVE DIRECTOR  
ROGER P. STEWART

MEMORANDUM

**DATE:** June 07, 2000  
**TO:** Mrs. Teresa Heron, Review Engineer  
**FROM:** Gabriel Castaño *G.C.* **THRU:** Alice Harman, P.E. *AH*  
**SUBJECT:** Comment on Public Notice of Intent to Issue Air PSD Permit Modification  
DEP File No. 0570261-002-AC ( PSD-FL-121C )

**Project:** Hillsborough County Resource Recovery Facility

On May 05, 2000 the HCEPC received a copy of the Intent to Issue and Draft Modification to the Prevention of Significant Deterioration of Air Quality Permit ( PSD Permit ) for the Hillsborough County resource recovery facility located at 350 Falkenburg Road, Tampa, Hillsborough County. The Department of Environmental Protection sent an Intent to Issue of the PSD Permit to Daniel A. Kleman, County Administrator, on May 03, 2000. The EPC is in agreement with the Department of Environment Protection. The Commission has no concerns with this analysis and additional information is not needed at this time. Your May report included all of our concerns.

Thank you for the opportunity to provide comments on this project.

**Cc:** Mr. Daniel A. Kleman, Hillsborough County





BEST AVAILABLE COPY

Ogden Martin Systems of Hillsborough, Inc.  
350 N. Falkenburg Road  
Tampa FL 33619  
Tel: 813-684-5688  
Fax: 813-684-7964

FACSIMILE TRANSMITTAL SHEET

DATE: April 28, 00

FAX NUMBER: 1-850-922-6979

TO: Teresa Heron

FROM: John P. Burtledge

Number of Pages (including cover sheet): 2

SPECIAL INSTRUCTIONS/COMMENTS:

Generator rating sheet from  
G.E. equipment manual

-----  
IF YOU EXPERIENCE PROBLEMS WITH THIS TRANSMISSION PLEASE  
CONTACT SENDER.

# BEST AVAILABLE COPY

## ESTIMATED GENERATOR DATA

**GENERATOR NO. 316X630**

### NAMEPLATE DATA

2 Poles, 3 Phase, Wye Connected, 60 Hertz  
 Total temperature at rating guaranteed not to exceed:  
 110 C on armature by detector, 110 C on field by resistance  
 Maximum cold gas temperature: 40 C  
 Inlet water: 95 F

Rating: 37,650 KVA, 1676 Armature Amps, 13,800 Armature Volts, 441 Field Amps  
 250 Excitation Volts, 0.85 Power Factor

### DESIGN DATA

Maximum KVA One Cooler Out of Service ..... 30,120  
 No-Load Field Current ..... 166 Amperes  
 Three Phase Armature Winding Capacitance ..... 0.353 Microfarads  
 Armature Winding DC Resistance (per phase) ..... 0.00717 Ohms at 100 C  
 Field Winding DC Resistance ..... 0.477 Ohms at 125 C

### COLLECTOR AND BRUSH DATA

Collector brushes: 18 per set  
 Collector minimum safe operating diameter: 12.5 inches  
 Shaft grounding brushes: 2 per set  
 If brushes spark or chatter, refer to: GEK-35874

Recommended Grade: National Carbon 634  
 Recommended Grade: National Carbon 634

### GAS COOLER DATA

Inlet water temperature: 95 F  
 Head loss through cooler: 10.5 feet  
 Gas space in generator: 938 cubic feet

Water flow at rated load: 592 gpm  
 Gas flow through generator: 32,400 cfm

### AIR FILTER

Type of Air Filter ..... Fan  
 Size of Air Filter ..... 30 x 10 x 2  
 Number of Air Filters ..... 2