

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

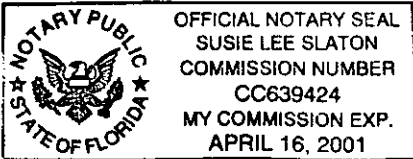
was published in said newspaper in the issues of \_\_\_\_\_

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.

*J. Rosenthal*  
\_\_\_\_\_ 29 \_\_\_\_\_ day  
of \_\_\_\_\_ MAY \_\_\_\_\_ A.D. 20 00

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 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 Name) **MAI** B. Date of Delivery **8/20/99**  
 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

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

PS Form 3811, July 1999

Domestic Return Receipt

102595-99-M-1789

Z 341 355 278

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>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)

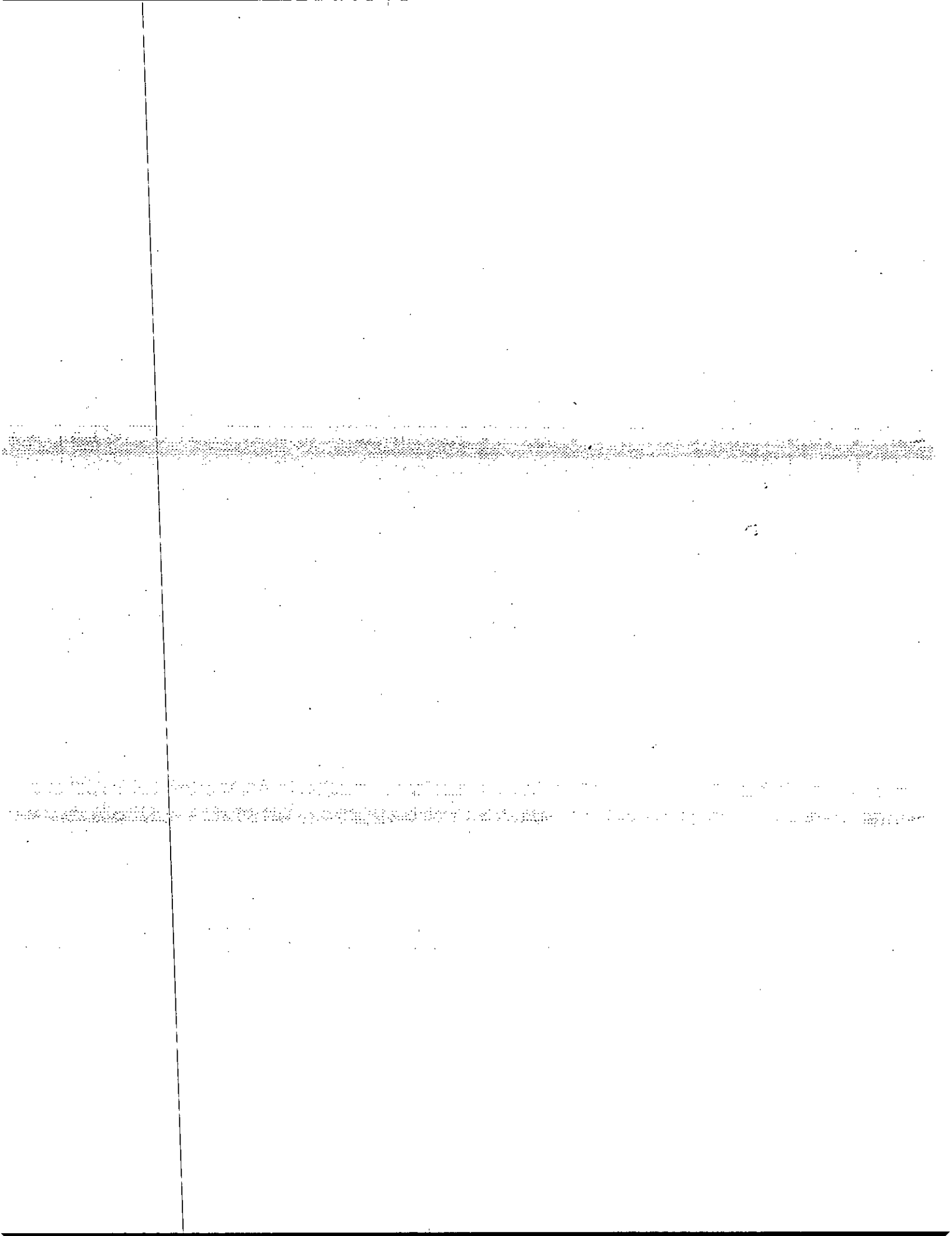
Sent to	<i>Daniel Klemm</i>
Street & Number	<i>Hillsborough Co</i>
Post Office, State, & ZIP Code	<i>Tampa, FL</i>
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL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

Z 341 355 279

**RECEIVED**  
 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  
 Magnolia Plaza  
 MS 5505  
 Please print your name, address, and ZIP code in this box

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

UNITED STATES POSTAL SERVICE



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.

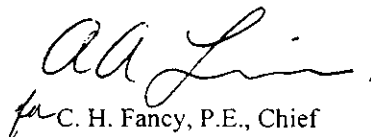
The application for a variance or waiver is made by filing a petition with the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. The petition must specify the following information: (a) The name, address, and telephone number 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

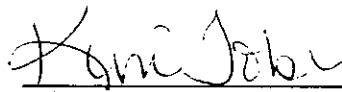
**CERTIFICATE OF SERVICE**

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.

  
(Clerk) 5-3-00  
(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

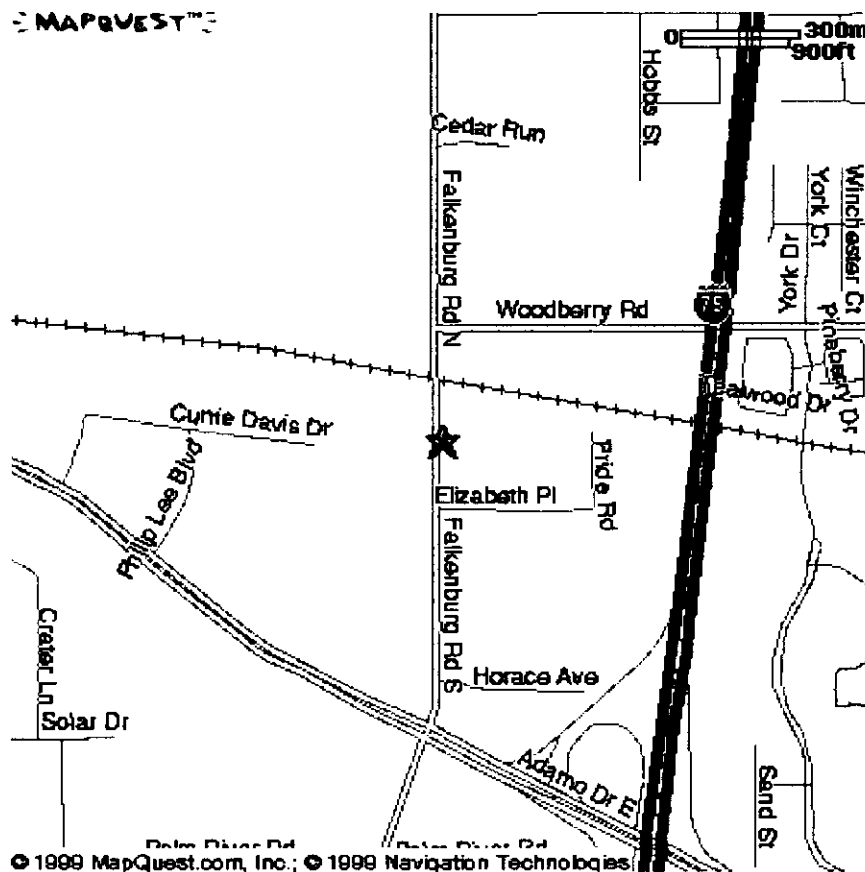
### 1.2 Reviewing and Process Schedule:

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.

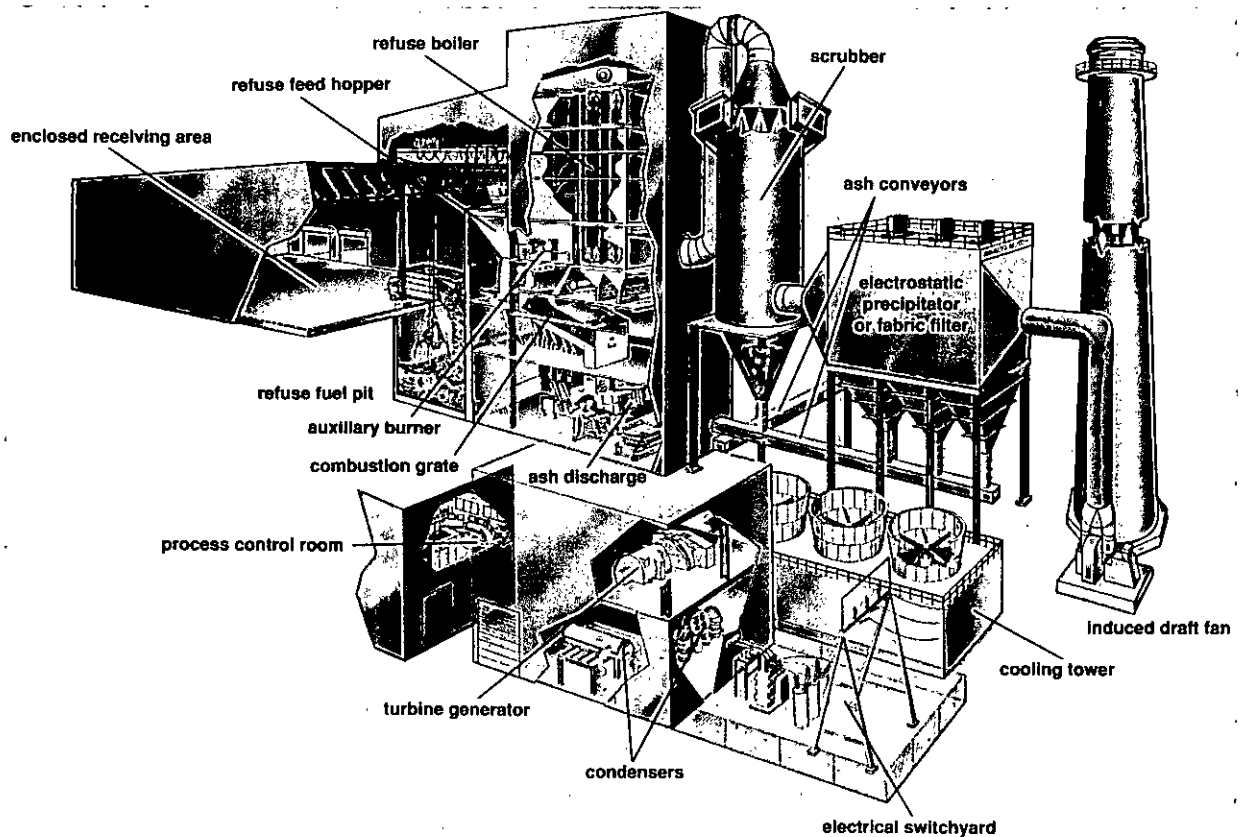
In addition to the physical changes required for the upgrade of the pollution control system, a number of revisions were requested which required modifications of the existing Permit PSD-FL-121 issued on July 7, 1986. These revisions included:

## 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.

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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.

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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.

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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*



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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

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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 NOx 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.

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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.

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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  
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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);.

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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), ~~472.5 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.

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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>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 62-4.030, 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 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

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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

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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

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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