

CDM Transmittal

CDM

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RECEIVED

JUN 13 2006

BUREAU OF AIR REGULATION

To: Scott Sheplak
Organization/Address: FDEP
Air Program
2600 Blair Stone Road
Tallahassee, FL 32399

From: Jason Gorrie
Date: June 12, 2006

Re: Hillsborough County Resource Recovery Facility

Job #: 6033-47331

Via: *Mail:* *Overnight:* XX *Courier:*

Enclosed please find: Affidavit of Publication for Intent to Issue

For your information

XX

For your review

For your signature

Approved

Approved as noted

Returned to you for correction

Message:


Signed _____

Local PFI	49 Lb	140 µg/dscm	Stack Test	Subpart E b
Mercury (Hg)	<0.10	28 µg/dscm*	Stack Test	Avoid PSD
Cadmium (Cd)	0.01	10 µg/dscm	Stack Test	Subpart E b
MWC Organics (dioxin furan)	1.6x10 ⁻⁴	13.0 ng/dscm	Stack Test	BACT/Lb
Opacity	NA	10 percent	6-minute COMS	BACT/Lb
Amonia (NH ₃)	<15	15/10 ppmv	Stack Tests based on load	PM, Opacity

* Alternative percent (%) removal requirements apply if values exceeded: SO₂ (80%), HCl (95%), Hg (85%)

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

The Department will issue the permit 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. This PSD permitting action is being coordinated with a certification under the Power Plant Siting Act (Sections 403.501-518, F.S.). If a petition for an administrative hearing on the Department's intent to issue is filed by a substantially affected person, the hearing shall be consolidated with the certification hearing (if one is held), as provided under Section 403.507(3). 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 those entitled to written notice under section 120.603(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 120.603(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 61.106-205 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 61.106-201, F.A.C. Because the administrative hearing process is designed to formalize 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.

The 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 111 S. Magnolia Drive, Suite 4 Tallahassee, Florida 32399-2400 Telephone: 850-488-0114 Fax: 850-921-9533	Dept. of Environmental Protection Southwest District Office 13051 North Telecom Parkway Temple Terrace, Florida 33637-0926 Telephone: 813-632-7600 Fax: 813-744-6458	Hillsborough County Environmental Protection Commission 3629 Queen Palm Drive Tampa, Florida 33619-1309 Telephone: 813-627-2600 Fax: 813-627-2660
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The complete project file includes the application, technical evaluations, Draft Permit, and the information submitted by the authorized representative, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact Scott Sheplek or Debbie Nelson of the Bureau of Air Regulation at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850-488-0114 for additional information. Key correspondence, draft permit and technical evaluation can be accessed by clicking on "Hillsborough County Resource Recovery Facility" under the "Waste-to-Energy" tab at the following web page: www.dep.state.fl.us/air/permitting/construction/hillsborough.htm

THE TAMPA TRIBUNE
Published Daily
Tampa, Hillsborough County, Florida

State of Florida }
County of Hillsborough } ss

Before the undersigned authority personally appeared C. Pugh, who on oath says that she is the Advertising Billing Supervisor 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 TAMPA TRIBUNE

in the matter of

PUBLIC NOTICE OF INTENT

was published in said newspaper in the issues of
*MAY 25, 2006

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 25 day of MAY, A D 2006

Personally Known or Produced Identification Type of Identification Produced _____

#1725137

Ana Maria Hoda
Commission # EC5511367
EXPIRES MAY 11, 2010
WWW.AARONNOTARY.COM

PUBLIC NOTICE OF INTENT TO ISSUE PSD PERMIT
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Hillsborough County Resource Recovery Facility Unit 4
DTP File No. 0570261-007-AC (PSD-FL-369, PART-19A)

The Department of Environmental Protection (Department) gives notice of its intent to issue a permit under the requirements for the Prevention of Significant Deterioration (PSD) of Air Quality to Hillsborough County. The permit is one of several authorizations needed to construct a nominal 600 tons per day (TPD) municipal waste combustor (MWC) at the existing Hillsborough County Resource Recovery Facility southeast of Tampa, west of 75 and near Brandon. A PSD applicability analysis and a determination of Best Available Control Technology (BACT) were required pursuant to Rule 62-212.400(2)(a) and 10(b), Florida Administrative Code (FAC) for emissions of nitrogen oxides (NO_x), carbon monoxide (CO), sulfur dioxide (SO₂), MWC acid gases, and MWC organics. The applicant's address is Hillsborough County Department of Solid Waste Management, 601 East Kennedy Boulevard, Tampa, Florida 33602.

The applicant proposes to construct a new MWC Unit 4. The primary components are: a new nominal 600 TPD MWC, a new nominal 17 megawatt (MW) steam turbine-electrical generator; expansion of the ash handling and refuse building; a new transformer yard; a new lime silo, and a new wetting basin. When the project is completed, the facility will be able to process approximately 1,800 TPD of solid waste and generate approximately 47 MW (net) of electricity.

The general area is in attainment with respect to all State and National Ambient Air Quality Standards. There has been approximately 200,000 tons per year (TPY) of SO₂ and NO_x reductions since 1998 from stationary sources in the Tampa Bay area due to the natural gas repowering of the coal-fired TECO Gannon (Bayside) Station and addition of a scrubber and Low NO_x burners at the TECO Big Bend Station. Dispersion modeling indicates that proposed project will not cause or contribute to a violation of the ambient air quality standards or allowable increases (increments). All of the modeled ground-level pollutant impacts are less than the respective significant impact levels that would otherwise require applications of more involved multiple-source dispersion models.

The proposed project is subject to 40CFR60, Subpart Eb-Standards of Performance for New Stationary Sources; Emission Guidelines (including hazardous air pollutants) for Existing Sources Municipal Waste Combustors as revised and published by the Environmental Protection Agency (EPA) on May 10, 2006.

To meet the requirements of Subpart Eb and BACT, the applicant will install: a spray dryer (SD) with lime injection to absorb MWC acid gases, an activated carbon injection (ACI) system to adsorb MWC organics and mercury (H) a fabric filter (FF) baghouse to remove particulate matter, including absorption/adsorption reagent; a flue gas recirculation (FGR) to limit NO_x formation; and a urea-based selective non-catalytic reduction (SNCR) system to destroy NO_x. Continuous emissions monitoring systems (CEMS) are required for CO, NO_x, SO₂, and Hg as required as well as a continuous opacity monitoring system (COMS).

The Department has determined that emissions for several key pollutants, particularly those that are affected by reagent use, can be lower than required by Subpart Eb. The Department has determined that BACT for NO_x is 1 parts per million by volume, dry corrected to 7 percent oxygen (ppmv @ 7% O₂) of NO_x on a 24-hour average and 90 ppmvd @ 7% O₂ on a 12-month average, rolled monthly. This is the most stringent BACT for NO_x issued for large MWC in the United States.

Mercury (Hg) emissions will be limited to 28 micrograms per dry standard cubic meter (µg/dscm). Compliance is determined in accordance with the existing procedures in 40CFR60, Subpart Eb. However, the Department has determined that by the second year of operation, reliable Hg CEMS will be available and requires that one be installed to measure actual emissions. This instrument represents the first Hg-CEMS required on an MWC in the United States. This instrument will provide much better information on short term and long term Hg emissions to insure that annual emissions are less than the threshold requiring a BACT determination pursuant to PSD.

The following table summarizes the estimated annual emissions and pollutant concentration limits in accordance with the Department's BACT determination, Subpart Eb, or to avoid PSD. Because of the degree of control, some pollutants are emitted at levels less than the thresholds requiring emissions limits.

Pollutant	Emissions TPY	Emission Limit	Measurement Basis	Limit Basis
NO _x	210	110-90 ppmvd	24-hr/12-month CEMS	BACT
CO	113	100-80 mg/dscm	4-hr/30-day CEMS	BACT/Eb
MWC Acid Gases (SO ₂ +HCl)	84+111=195	26-25 ppmvd*	24-hr CEMS Stack Test	BACT/Eb
MWC Metals/PM ₁₀	14.6	12 mg/dscm	Stack Test	Avoid PSD
Ozone as VOC	12	NA	NA	NA
Sulfuric Acid Mist	<<7	NA	NA	NA
Fluorides (F)	<<3	NA	NA	NA
Lead (Pb)	0.17	140 µg/dscm	Stack Test	Subpart Eb
Mercury (Hg)	<0.10	28 µg/dscm*	Stack Test	Avoid PSD
Cadmium (Cd)	0.01	10 µg/dscm	Stack Test	Subpart Eb
MWC Organics (dioxin/furan)	1.6x10 ⁻⁶	13.0 ng/dscm	Stack Test	BACT/Eb
Opacity	NA	10 percent	6-minute COMS	BACT/Eb
Ammonia (NH ₃)	<15	15-10 ppmv	Stack Test based on load	PM ₁₀ Opacity

* Alternative percent (%) removal requirements apply if values exceeded: SO₂ (90%), HCl (95%), Hg (95%)
The Department will issue the FINAL Permit in accordance with the conditions of the DRAFT Permit, unless a