



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

August 10, 2009

Barry M. Boldissar, Director
Hillsborough County Solid Waste Management Department
Hillsborough County Resource Recovery Facility
601 E. Kennedy Boulevard
Tampa, Florida 33602

Re: Project No. 0570261-010-AC (PSD-FL-369B)
Hillsborough County Resource Recovery Facility
Unit 4 Expansion Project
Revision to Add New Wet Scrubber for Ash Building

Dear Mr. Boldissar:

Enclosed is a draft permit package for the existing Hillsborough County Resource Recovery Facility, which is located in Hillsborough County at 350 North Falkenburg Road in Tampa, Florida. This project authorizes the installation of a new wet dust collection system for the expansion of the ash handling building (EU-100). The new wet scrubber will control ventilation exhaust from the ash building. The project is considered a minor modification to existing air construction Permit No. PSD-FL-369A, which authorized construction of the new Unit 4 municipal waste combustor.

The permit package includes the following documents: Written Notice of Intent to Issue Air Permit; Public Notice of Intent to Issue Air Permit; Technical Evaluation and Preliminary Determination; Draft Air Construction Permit Revision with Appendices. If you have any questions, please contact the project engineer, Tammy McWade, at 850/488-1906 or Jeff Koerner at 850/921-9536.

Sincerely,

Trina Vielhauer, Chief
Bureau of Air Regulation

Enclosures

TLV/jfk/tm

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

*In the Matter of an
Application for Air Permits by:*

Hillsborough County
Solid Waste Management Department
601 E. Kennedy Boulevard
Tampa, Florida 33602

Project No. 0570261-010-AC (PSD-FL-369B)
Hillsborough County Resource Recovery Facility
Unit 4 Expansion Project
Revision, Wet Dust Collection System
Hillsborough County, Florida

Authorized Representative:

Barry M. Boldissar, Director

Facility Location: The existing Hillsborough County Resource Recovery Facility is located in Hillsborough County at 350 North Falkenburg Road in Tampa, Florida.

Project: Covanta Hillsborough, Inc. operates the existing Hillsborough County Resource Recovery Facility, which is located in Hillsborough County at 350 North Falkenburg Road in Tampa, Florida. This project authorizes the installation of a new wet dust collection system for the new expansion of the ash handling building (EU-100). The new wet scrubber will control ventilation exhaust from the ash building. The project is considered a minor modification to existing air construction Permit No. PSD-FL-369A, which authorized construction of the new Unit 4 municipal waste combustor. Based on the expected emissions, the new wet dust collection system will not trigger preconstruction review for the Prevention of Significant Deterioration (PSD) of Air Quality pursuant to Rule 62-212.400, Florida Administrative Code (F.A.C.). A detailed review of the project is provided in the attached Technical Evaluation and Preliminary Determination.

Permitting Authority: Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, and 62-212, F.A.C. The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/488-0114.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address or phone number listed above. In addition, electronic copies of these documents are available on the following web site: <http://www.dep.state.fl.us/air/emission/apds/default.asp>.

Notice of Intent to Issue Permit: The Permitting Authority gives notice of its intent to issue an air permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of the proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a Final Permit in accordance with the conditions of the proposed Draft Permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

Public Notice: Pursuant to Section 403.815, F.S. and Rules 62-110.106 and 62-210.350, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Permit (Public Notice). The Public Notice shall be published one time only as soon as possible in the legal advertisement section of a newspaper of general circulation in the area affected by this project. The newspaper

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

used must meet 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 Permitting Authority at above address or phone number. Pursuant to Rule 62-110.106(5) and (9), F.A.C., the applicant shall provide proof of publication to the Permitting Authority at the above address within 7 days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rule 62-110.106(11), F.A.C.

Comments: The Permitting Authority will accept written comments concerning the proposed Draft Permit for a period of 14 days from the date of publication of the Public Notice. Written comments must be received by the Permitting Authority by close of business (5:00 p.m.) on or before the end of the 14-day period. If written comments received result in a significant change to the Draft Permit, the Permitting Authority shall revise the Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this Written Notice of Intent to Issue Air Permit. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the attached Public Notice or within 14 days of receipt of this Written Notice of Intent to Issue Air Permit, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 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 (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority'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 when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (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 including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the 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 Permitting Authority'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, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Written Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available in this proceeding.

Executed in Tallahassee, Florida.



Trina Vielhauer, Chief
Bureau of Air Regulation

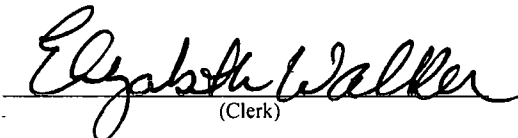
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Written Notice of Intent to Issue Air Permit package (including the Written Notice of Intent to Issue Air Permit, the Public Notice of Intent to Issue Air Permit, the Technical Evaluation and Preliminary Determination and the Draft Permit with Appendices) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on 8/11/09 to the persons listed below.

- Mr. Barry M. Boldissar, Hillsborough County DSWM (boldissarb@hillsboroughcounty.org)
- Mr. Glenn Hoag, Covanta Hillsborough, Inc. (ghoag@covantaenergy.com)
- Mr. Jason Gorrie, CDM (jgorrie@covantaenergy.com)
- Mr. William Crellin, Jr., CDM (crellinwr@cdm.com)
- Mr. Robert A. Velasco, P.E., BCEE, CDM (velascora@cdm.com)
- Ms. Cindy Zhang-Torres, DEP Southwest District Office (cindy.zhang-torres@dep.state.fl.us)
- Ms. Dianna Lee, Hillsborough County EPC (lee@epchc.org)
- Mr. Noel Morera, Hillsborough County EPC (morera@epchc.org)
- Mr. Mike Halpin, DEP Siting Office (mike.halpin@dep.state.fl.us)
- Ms. Kathleen Forney, EPA Region 4 (forney.kathleen@epa.gov)
- Ms Ana M. Oquendo, EPA Region 4 (oquendo.ana@epa.gov)
- Ms Heather Abrams, EPA Region 4 (abrams.heather@epa.gov)
- Ms. Vickie Gibson, DEP BAR Reading File (victoria.gibson@dep.state.fl.us)

Clerk Stamp

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



(Clerk)

8/11/09
(Date)

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Florida Department of Environmental Protection
Division of Air Resource Management, Bureau of Air Regulation
Draft Air Construction Permit
Project No. 0570261-010-AC (PSD-FL-369B)
Hillsborough County Resource Recovery Facility
Hillsborough County, Florida

Applicant: The applicant for this project is Hillsborough County, Solid Waste Management Department. The applicant's authorized representative is Mr. Barry M. Boldissar, Director, Hillsborough County, Solid Waste Management Department, Hillsborough County Resource Recovery Facility, 601 E. Kennedy Boulevard, Tampa, Florida 33602.

Facility Location: The existing Hillsborough County Resource Recovery Facility is located in Hillsborough County at 350 North Falkenburg Road in Tampa, Florida.

Project: Covanta Hillsborough, Inc. operates the existing Hillsborough County Resource Recovery Facility, which is located in Hillsborough County at 350 North Falkenburg Road in Tampa, Florida. This project authorizes the installation of a new wet dust collection system for the new expansion of the ash handling building (EU-100). The new wet scrubber will control particulate matter in the ventilation exhaust from the ash building. The project is considered a minor modification to existing air construction Permit No. PSD-FL-369A, which authorized construction of the new Unit 4 municipal waste combustor. Based on the expected emissions, the new wet dust collection system will not trigger preconstruction review for the Prevention of Significant Deterioration (PSD) of Air Quality pursuant to Rule 62-212.400, Florida Administrative Code (F.A.C.).

Permitting Authority: Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210 and 62-212, F.A.C. The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Permitting Authority responsible for making a permit determination for this project is the Bureau of Air Regulation in the Department of Environmental Protection's Division of Air Resource Management. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/488-0114.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at the physical address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application and information submitted by the applicant (exclusive of confidential records under Section 403.111, F.S.). Interested persons may contact the Permitting Authority's project engineer for additional information at the address and phone number listed above. In addition, electronic copies of these documents are available on the following web site: <http://www.dep.state.fl.us/air/emission/apds/default.asp>.

Notice of Intent to Issue Air Permit: The Permitting Authority gives notice of its intent to issue an air construction permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a Final Permit in accordance with the conditions of the proposed Draft Permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

Comments: The Permitting Authority will accept written comments concerning the proposed Draft Permit for a period of 14 days from the date of publication of this Public Notice. Written comments must be received by the Permitting Authority by close of business (5:00 p.m.) on or before the end of the 14-day period. If written comments received result in a significant change to the Draft Permit, the Permitting Authority shall revise the

(Public Notice to be Published in the Newspaper)

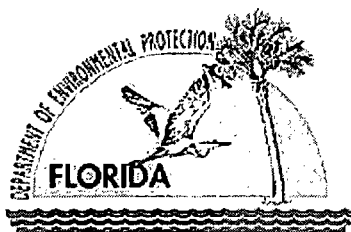
Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000 (Telephone: 850/245-2241). Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 days of publication of this Public Notice or receipt of a written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 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 (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority'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 rights will be affected by the agency determination; (c) A statement of when and how the petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (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 including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the 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 Permitting Authority'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, F.A.C.

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

Mediation: Mediation is not available for this proceeding.



**TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION**

APPLICANT

Hillsborough County
350 N. Falkenburg Road
Tampa, FL 33619

Hillsborough County Resource Recovery Facility
ARMS Facility ID No. 0570261

PROJECT

Project No. 0570261-010-AC
PSD-FL-369B
Application for Air Construction Permit
Wet Dust Collection System for Ash Building

COUNTY

Hillsborough, Florida

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation
New Source Review Section
2600 Blair Stone Road, MS#5505
Tallahassee, Florida 32399-2400

August 7, 2009

1. GENERAL PROJECT INFORMATION

Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control – General Provisions); 62-210 (Stationary Sources – General Requirements); 62-212 (Stationary Sources – Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources - Emission Standards); and 62-297 (Stationary Sources – Emissions Monitoring). Specifically, air construction permits are required pursuant to Rules 62-4, 62-210 and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations on a quarterly basis in Rule 62-204.800, F.A.C.

Glossary of Common Terms

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of this permit.

Facility Description and Location

Hillsborough County Resource Recovery Facility consists of three municipal waste combustors (MWC) each having a nominal design rate capacity of 400 tons municipal solid waste per day. Natural gas fired auxiliary burners and combustion control systems are installed to improve combustion efficiency and control. The air pollution control equipment for each unit includes a spray dryer absorber, a fabric filter, an activated carbon injection system and a selective non-catalytic reduction (SNCR) system with auxiliary gas burners in the furnaces. Each unit includes continuous monitoring devices for combustion and process parameters as well as for emissions of sulfur dioxide (SO₂), nitrogen oxides (NO_x) and carbon monoxide (CO). The facility also includes an ash handling system, an ash storage building, two lime storage silos, an activated carbon storage silo, a cooling tower, and other miscellaneous unregulated and/or insignificant emissions units and activities.

The facility is categorized as an existing refuse system with a Standard Industrial Classification Code No. 4953. The facility is located in Hillsborough County at 350 North Falkenburg Road in Tampa, Florida. The UTM coordinates of the existing facility are Zone 17, 368.2 kilometer (km) East, and 3092.7 km North. This site is in an area that is in attainment (or designated as unclassifiable) for all air pollutants subject to state and federal Ambient Air Quality Standards (AAQS).

Facility Regulatory Categories

- The facility is a major source of hazardous air pollutants (HAP).
- The facility has no units subject to the acid rain provisions of the Clean Air Act.
- The facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.
- The facility is regulated under New Source Performance Standards (NSPS) 40 CFR 60, Subpart Cb, Emissions Guidelines and Compliance Times for Large Municipal Waste Combustors that are Constructed on or before September 20, 1994.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

PSD Permit History

Permit No. PSD-FL-369 (Project No. 0570261-007-AC issued on October 3, 2006)

The air construction permit authorized the construction of: a nominal 600 tons per day mass-burn municipal waste combustor (Unit 4); a new nominal 17 megawatt steam-turbine electrical generator; a new transformer yard; a new lime storage silo; a dolomite lime silo; an activated carbon storage silo; a cooling tower cell; and expansion of the ash handling and refuse building. Unit 4 is subject to the federal NSPS requirements in Subpart Eb of 40 CFR 60. The project is subject to PSD preconstruction review for emissions of CO, NO_x, MWC acid gases and MWC organics.

Amendment to Permit No. PSD-FL-369 (Project No. 0570261-008-AC issued March 26, 2007)

This amendment implemented an hourly averaging method to calculate the activated carbon mass feed rate levels.

Modification, Permit PSD-FL-369A (Project No. 0570261-009-AC issued September 7, 2007)

This air construction permit modified the original permit as follows:

- Specific Condition No. 4 (EU 107) was revised to authorize the option of using the strategic management of combustion air (Covanta LN™ System) to limit NO_x formation and use an alternative ammonia reagent storage tank for the destruction of NO_x.
- Specific Condition No. 7 was revised to authorize an increase in the maximum steam production rate from 190,000 to 200,000 pounds per hour.

Project Description

The applicant, Hillsborough County Resource Recovery Facility, requests authorization to install a new wet dust collection system in the new portion of the expanded ash handling building (EU-100). The application is for a modification of air construction Permit No. PSD-FL-369A. The original permit included an expansion to the existing ash building to provide sufficient storage of residue and ferrous material for all units. However, during construction it was determined that additional ventilation measures are required to meet the 2004 Florida Building Code. Therefore, the applicant requests a minor modification to the permit to add the new air pollution control system.

Processing Schedule

02/12/2009 Received application for a minor source air pollution construction permit.
03/02/2009 Requested additional information.
04/02/2009 Received additional information.
04/30/2009 Requested additional information.
07/06/2009 Received additional information, application complete.

2. PSD APPLICABILITY

General PSD Applicability

For areas currently in attainment with the state and federal AAQS or areas otherwise designated as unclassifiable, the Department regulates major stationary sources of air pollution in accordance with Florida's PSD preconstruction review program as defined in Rule 62-212.400, F.A.C. Under preconstruction review, the Department first must determine if a project is subject to the PSD requirements ("PSD applicability review") and, if so, must conduct a PSD preconstruction review. A PSD applicability review is required for projects at new and existing major stationary sources. In addition, proposed projects at existing minor sources are subject to a PSD applicability review to determine whether potential emissions *from the proposed project itself* will exceed the PSD major stationary source thresholds. A facility is considered a major stationary source with respect to PSD if it emits or has the potential to emit:

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

- 5 tons per year or more of lead;
- 250 tons per year or more of any regulated air pollutant; or
- 100 tons per year or more of any regulated air pollutant and the facility belongs to one of the following 28 PSD-major facility categories: fossil fuel-fired steam electric plants of more than 250 million British thermal units per hour heat input, coal cleaning plants (with thermal dryers), Kraft pulp mills, portland cement plants, primary zinc smelters, iron and steel mill plants, primary aluminum ore reduction plants, primary copper smelters, municipal incinerators capable of charging more than 250 tons of refuse per day, hydrofluoric, sulfuric, and nitric acid plants, petroleum refineries, lime plants, phosphate rock processing plants, coke oven batteries, sulfur recovery plants, carbon black plants (furnace process), primary lead smelters, fuel conversion plants, sintering plants, secondary metal production plants, chemical process plants, fossil fuel boilers (or combinations thereof) totaling more than 250 million British thermal units per hour heat input, petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels, taconite ore processing plants, glass fiber processing plants and charcoal production plants.

Once it is determined that a project is subject to PSD preconstruction review, the project emissions are compared to the “significant emission rates” defined in Rule 62-210.200, F.A.C. for the following pollutants: carbon monoxide (CO); nitrogen oxides (NO_x); sulfur dioxide (SO₂); particulate matter (PM); particulate matter with a mean particle diameter of 10 microns or less (PM₁₀); volatile organic compounds (VOC); lead (Pb); fluorides (Fl); sulfuric acid mist (SAM); hydrogen sulfide (H₂S); total reduced sulfur (TRS), including H₂S; reduced sulfur compounds, including H₂S; municipal waste combustor organics measured as total tetra- through octa-chlorinated dibenzo-p-dioxins and dibenzofurans; municipal waste combustor metals measured as particulate matter; municipal waste combustor acid gases measured as SO₂ and hydrogen chloride (HCl); municipal solid waste landfills emissions measured as non-methane organic compounds (NMOC); and mercury (Hg). In addition, significant emissions rate also means any emissions rate or any net emissions increase associated with a major stationary source or major modification which would construct within 10 kilometers of a Class I area and have an impact on such area equal to or greater than 1 microgram (µg)/meter cubed (m³), 24-hour average.

If the potential emission exceeds the defined significant emissions rate of a PSD pollutant, the project is considered “significant” for the pollutant and the applicant must employ the Best Available Control Technology (BACT) to minimize the emissions and evaluate the air quality impacts. Although a facility or project may be *major* with respect to PSD for only one regulated pollutant, it may be required to install BACT controls for several “significant” regulated pollutants.

PSD Applicability for Project

The project includes a new air pollution control system in the new portion of the expanded ash handling building, which will increase the annual emission rates for particulate matter (PM) by 0.17 tons per year. In Table 1 of the response dated July 1, 2009, the applicant included results from source testing at the inlet to the existing baghouse control for the ash building. The test results showed low PM loading to the control device. The following table shows a revised PSD applicability analysis for PM emissions from the original project.

Table A. Revised PSD Applicability Analysis for PM Emissions from Original Project

Pollutant	Potential Particulate Matter Emissions, Tons/Year				Subject To PSD?
	Original Project	Increase from Wet Scrubber	Revised Project Total	Significant Emissions Rate	
PM	24	0.17	24.17	25	No
PM/PM ₁₀	14.6	0.17	14.77	15	No
MWC Metals	14.6	0.17	14.77	15	No

The Unit 4 project is still under construction. The above analysis shows that the original project remains minor with respect to PSD based on the application for the new wet scrubber.

3. DEPARTMENT REVIEW

PSD Applicability for Original Project - Background

This project is a minor revision to the original Unit 4 Project No. 0570261-007-AC (PSD-FL-369). As explained in the Department's Technical Evaluation and Preliminary Determination (TEPD) issued concurrently with the draft permit, the original project was determined to be minor with respect to particulate matter emissions. Table 1 in the TEPD indicates increases of 25 tons of PM per year, 14.6 tons of PM₁₀ per year and 14.6 tons of MWC metals per year. However, Section 4.6 explains that the PM emissions increase will be less than 24 tons/year based on the emissions standards in the permit. In addition, PM₁₀ and MWC metals are likely to be less than 14.6 tons/year. Therefore, as permitted, the project did not trigger PSD preconstruction review for PM, PM₁₀ or MWC metals.

The ash handling system is completely enclosed. The ash is quenched and wetted before being temporarily stored in the ash handling facility and loaded onto a truck. An existing baghouse is located on the ash handling building as an added precaution for emissions from the ventilation exhaust. Permit No. PSD-FL-121B established the current visible emissions standard of 5% opacity from the existing baghouse on ash handling facility as constructed for the original MWC units.

New Wet Dust Collection System

The applicant proposes to install an additional ventilation system that will exhaust through a wet dust collector designed to meet an outlet dust loading of 0.015 grains per actual cubic feet (acf) at a nominal flow rate of 7,000 actual cubic feet per minute (acfm). However, based on outlet dust loading and the design flow rate, this would place the original project above the PSD significant emissions rates for PM, PM₁₀ or MWC metals. The applicant contends that the particulate matter emissions rate will be much lower because the inlet loading will be relatively low.

To evaluate the actual inlet dust loading to the wet scrubber, the applicant conducted source testing (EPA Methods 1 – 5) at the inlet of the existing baghouse system currently used to control the exhaust from the ash building. The test results showed very little particulate matter retained on the filter and that the inlet dust loading to the baghouse was 0.004 grains/acf. However, during the tests, one of the three existing MWC units was offline. Therefore, the applicant prorated the results to 0.0011 grains/acf to account for the offline existing MWC unit as well as new MWC Unit 4. The vendor specified a removal efficiency of 83% for particles down to one micron and estimated 40% removal efficiency for submicron particles. The applicant estimates PM emissions of 0.04 lb/hour and 0.17 tons/year based on: a flow rate of 7000 acfm; an inlet dust loading of 0.0011 gr/acf; a control efficiency of 40%; and full operation at 8760 hours per year. Even assuming that all of the emissions are PM₁₀ and MWC metals, the original project remains minor with respect to PSD preconstruction review.

The applicant requests an opacity limit of 5% to ensure proper operation of the wet scrubber control system. The design for the wet scrubber specifies an exhaust vent: just four feet above roof line through building, with a diameter of only 18 inches, and with a 45° angle to prevent damage to the ventilation system due to severe weather conditions. The applicant contends that a stack test to determine particulate matter emissions would be a burden due to the expense, complexity of conducting such a test given the configuration and very low levels of emissions expected.

The Department recognizes there will be a low inlet dust loading to the wet scrubber since it will be controlling ventilation air from the ash building. The Department also notes the following information from EPA's Air Pollution Control Technology Fact Sheets for wet scrubbers:

“Mechanically-Aided Scrubber ... This type of technology is a part of the group of air pollution controls collectively referred to as “wet scrubbers.” ... Mechanically-aided scrubbers are primarily used to control particulate matter (PM), including PM less than or equal to 10 micrometers (µm) in aerodynamic diameter (PM₁₀), PM less than or equal to 2.5 µm in aerodynamic diameter (PM_{2.5}), down to PM with an aerodynamic diameter of approximately 1 µm (Avallone, 1996). ... Mechanically-aided scrubbers collection efficiencies range from 80 to 99 percent, depending upon the application. This type of scrubber relies almost exclusively

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

on inertial interception for PM collection, and is capable of high collection efficiencies, but only with commensurate high energy consumption (EPA, 1998; Josephs, 1999).”¹

“Condensation Scrubber ... Removal of air pollutants by use of condensation to increase pollutant particle size, followed by inertial interception ... Condensation scrubbers are typically intended to control fine particulate matter (PM) with an aerodynamic diameter of between approximately 0.25 and 1.0 micrometers (μm) (Sun, 1994) ... Achievable Emission Limits/Reductions: Collection efficiencies of greater than 99 percent have been reported for particulate emissions, based on study results (Sun, 1994).”²

The Department recognizes that the primary control for the ash handling and storage area is the building enclosure. The building exhaust system is in place to comply with ventilation requirements. The baghouse and proposed wet scrubber will be controlling the building exhaust ventilation air, which shows an actual low dust loading concentration. Without any control, the Department estimates PM emissions from the ventilation exhaust of 0.066 lb/hour and 0.29 tons/year based on 7000 acfm, 8760 hours per year and a dust loading of 0.0011 gr/acf. So, even without control, it is unlikely that the addition of the wet scrubber system will result in significant emissions increase. The Department believes the applicant has provided reasonable assurance that the additional particulate matter emissions will not trigger PSD review. The Department’s draft permit:

1. Authorizes installation of the new wet scrubber designed for the following specifications:
 - Approximately 40% control for submicron particles;
 - 80% control for particle ≥ 1.0 micron;
 - 95% control for particle ≥ 2.0 micron;
 - 97% control for particle ≥ 3.0 micron;
 - 98% control for particle ≥ 5.0 micron; and
 - 99% control for particle ≥ 10.0 micron.
2. Requires an initial test to determine the particle size distribution and overall expected control efficiency.
3. Requires the installation of devices to monitor the wet scrubber circulating flow rate and pressure drop.
4. Requires submittal of the final design specifications upon final equipment selection.
5. Establishes an opacity standard of 5% from the wet scrubber stack as determined by EPA Method 9.
6. Requires initial and annual visible emissions observations in accordance with EPA Method 9 to determine compliance with the opacity standard.
7. Requires periodic observation and recording of the wet scrubber circulating flow rate and pressure drop to ensure proper operation of the wet scrubber.
8. Extends the expiration date from December 31, 2009, to October 1, 2010.

4. PRELIMINARY DETERMINATION

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the draft permit. No air quality modeling analysis is required because the project does not result in a significant increase in emissions. Tammy McWade is the project engineer responsible for reviewing the application and drafting the permit. Additional details of this analysis may be obtained by contacting the project engineer at the Department’s Bureau of Air Regulation at Mail Station #5505, 2600 Blair Stone Road, Tallahassee, Florida

¹ *Air Pollution Control Technology Fact Sheet: Mechanically-Aided Scrubber*; Document No. EPA-452/F-03-013; U.S. EPA, 2003.

² *Air Pollution Control Technology Fact Sheet: Condensation Scrubber*; Document No. EPA-452/F-03-010; U.S. EPA, 2003.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

32399-2400.

DRAFT PSD PERMIT REVISION

PERMITTEE

Hillsborough County
Solid Waste Management Department
601 E. Kennedy Boulevard
Tampa, FL 33602

Authorized Representative:
Mr. Barry M. Boldissar, Director

Air Permit No. PSD-FL-369B
Project No. 0570261-010-AC
Expires: October 1, 2010
Hillsborough County Resource Recovery Facility
Facility ID No. 0570261
Air Construction Permit for Unit 4 Expansion
Revision, Wet Scrubber for Ash Building

PROJECT AND LOCATION

This permit authorizes the construction of a nominal 600 ton per day municipal waste combustor referred to as Unit 4 at the existing facility. For this project, the permit is revised to include a new wet dust collection system for expanded ash handling building (EU-100). The existing Hillsborough County Resource Recovery Facility is a refuse system categorized by Standard Industrial Classification No. 4953. The existing facility is located in Hillsborough County at 350 North Falkenburg Road in Tampa, Florida 33619. The UTM coordinates are Zone 17, 368.2 kilometers (km) East, and 3092.7 km North.

STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work 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. The existing facility is a major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality. This revision is a minor modification of the original PSD air construction permit.

CONTENTS

- Section 1. Facility Information
- Section 2. Administrative Requirements
- Section 3. Emissions Unit Specific Conditions
- Section 4. Appendices

Executed in Tallahassee, Florida

(DRAFT)

Joseph Kahn, Director
Division of Air Resource Management

(Date)

SECTION 1. FACILITY INFORMATION (DRAFT)

FACILITY DESCRIPTION

The existing Hillsborough County Resource Recovery Facility is located in Hillsborough County at 350 North Falkenburg Road, Tampa, Florida. The existing facility consists of three municipal waste combustors (MWC), each having a nominal design rate capacity of 400 tons municipal solid waste (MSW) per day, 150 million British thermal units (MMBtu) per hour (excluding 9.9 MMBtu per hour from the combustion air preheaters) and 94,270 pounds steam per hour based on MSW with an average heating value of 4,500 Btu per pound. The facility is owned by Hillsborough County and is currently operated by Covanta Hillsborough, Inc. a subsidiary of Covanta Energy Corporation. The Hillsborough County Resource Recovery Facility began operation in 1987.

PROJECT DESCRIPTION

Original Permit No. PSD-FL-369

Hillsborough County proposes to construct a new 600 tons per day (TPD) Municipal Waste Combustor referred to as Unit 4 at the existing facility. The nominal design rate capacity is 600 tons MSW per day, with a nominal heat input of 288 MMBtu per hour and nominal steam production of 163,780 pounds per hour (maximum 200,000 lb/hr). The new unit will be equipped with two natural gas-fired auxiliary burners, each with a nominal heat input of 50 MMBtu per hour. The new unit will be installed at the existing site. The flue for the new boiler is already encased in the existing stack. With the addition of the fourth unit, the existing 220 feet tall stack will contain four active flue streams. With the addition of this unit, the site capacity will increase from approximately 1,200 TPD to 1,800 TPD. The site's steam electric generating capacity will be increased from 39 MW to 47 MW (nominal).

Unit 4 will be a mass burn unit incorporating much of the same technology as the existing units including: combustion on a reverse-reciprocating grate system; ash discharge system; energy recovery through the furnace waterwall, superheater and economizers; electrical power production; and a pollution control system consisting of a spray dryer, fabric filter, activated carbon injection system and a selective non-catalytic reduction (SNCR). In addition, the new unit will incorporate flue gas recirculation for energy efficiency and pollution reduction. The existing ash building and handling system will be expanded. Two new lime storage silos and a new activated carbon storage silo will be constructed for Unit 4.

Revised Permit No. PSD-FL-369A

This project revised:

- Specific Condition No. 4 for EU-107 to authorize the option of using the strategic management of combustion air (Covanta LNTM system) to limit NO_x formation and use an alternative ammonia reagent storage tank for the destruction of NO_x; and
- Specific Condition No. 7 to authorize an increase in the maximum steam production rate from 190,000 to 200,000 pounds per hour.

Revised Permit No. PSD-FL-369B

This current project authorizes installation of a new wet scrubber system to control particulate emissions from the ash building (EU-100) exhaust system. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is a modification of the original PSD permit; however, the project to add the new wet scrubber maintains annual emissions increases below the PSD significant emissions rates for particulate matter (PM), particulate matter with a mean particle diameter of 10 microns or less (PM₁₀), and MWC metals.

REGULATORY CLASSIFICATIONS

Section 111, Clean Air Act, Standards of Performance for New Stationary Sources (NSPS): The new unit is a large Municipal Waste Combustor (MWC) unit subject to 40 CFR 60, Subpart Eb - Standards of Performance

SECTION 1. FACILITY INFORMATION (DRAFT)

for New Stationary Sources and Emission Guidelines for Municipal Waste Combustors.

Section 112, Clean Air Act, Hazardous Air Pollutants (HAPs): The facility is a major source of HAPs. The maximum achievable control technology (MACT) requirements typically specified in the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for this industry were included in 40 CFR 60, Subpart Eb as required by Section 169, Clean Air Act, Solid Waste Combustion.

Title IV, Acid Rain: The facility operates no units subject to the acid rain provisions of the Clean Air Act.

Title V, Clean Air Act, Permits: The facility is a Title V or "Major Source" of air pollution because the potential emissions of at least one regulated pollutant exceed 100 tons per year or because it is a Major Source of HAPs. Regulated pollutants include pollutants such as carbon monoxide (CO), nitrogen oxides (NO_x), particulate matter (PM/PM₁₀), sulfur dioxide (SO₂), and volatile organic compounds (VOC).

Part C, Clean Air Act, Prevention of Significant Deterioration (PSD): The facility is located in an area that is designated as "attainment", "maintenance", or "unclassifiable" for each pollutant subject to a National Ambient Air Quality Standard. The facility is classified as a "municipal incinerator capable of charging more than 250 tons of refuse per day", which is one of the facility categories with the lower PSD applicability threshold of 100 tons per year. Potential emissions of at least one regulated pollutant exceed 100 tons per year, therefore the facility is classified as a "Major Stationary Source" with respect to Rule 62-212.400 F.A.C.

Stationary Sources - Emission Standards in Chapter 62-296, F.A.C.: The facility operates one or more units subject to emission standards. The new Unit 4 is subject to the mercury standard in Rule 62-296.416, F.A.C. The numerical mercury emissions limit under state Rule 62-296.416, F.A.C., is more stringent than the NSPS emissions limit.

Reasonable Available Control Technology (RACT): The entire State of Florida is either classified as attainment or considered to be in attainment (i.e., unclassifiable) with respect to the NAAQS for all pollutants. However, the facility is located in a maintenance area for ozone, particulate matter and lead. The VOC and NO_x RACT provisions do not apply. The new unit has operations that are subject to PM RACT.

Siting: The facility was originally certified under PA83-19 pursuant to the power plant siting provisions of Chapter 62-17, F.A.C.

SECTION 2. ADMINISTRATIVE REQUIREMENTS (DRAFT)

1. Permitting Authority: All documents related to applications for permits to construct, modify or operate this emissions unit shall be submitted to the Bureau of Air Regulation (BAR), Florida Department of Environmental Protection (DEP), at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400 and phone number 850/488-0114. Copies of these documents shall be submitted to the Compliance Authority.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications should be submitted to the compliance authority. The compliance authority is the Department's Southwest District Office at 13051 N. Telecom Parkway, Temple Terrace, FL 33637-0926.
3. General Conditions Appendices: The owner and operator shall comply with the applicable requirements in Appendix A (NSPS Subpart A, Identification of General Provisions); Appendix BD (BACT Determination); Appendix Eb (NSPS Subpart Eb, Standards of Performance For Large Municipal Waste Combustors); Appendix GC (General Conditions); and Appendix SC (Standard Conditions), are subject to, and shall operate under, the attached General Conditions listed in Appendix GC of this permit. General Conditions are binding and enforceable pursuant to Chapter 403 of the Florida Statutes. [Rule 62-4.160, F.A.C.]
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise indicated in this permit, the construction and operation of the subject emissions unit shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403 of the Florida Statutes (F.S.); Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.); and the Title 40, Parts 51, 52, 60, 63, 72, 73 and 75 of the Code of Federal Regulations (CFR), adopted by reference in Rule 62-204.800, F.A.C. The terms used in this permit have specific meanings as defined in the applicable chapters of the Florida Administrative Code. 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. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations. [Rules 62-204.800, 62-210.300 and 62-210.900, F.A.C.]
5. Construction and Expiration: The Department may extend the 18-month period upon a satisfactory showing that an extension is justified. In conjunction with an extension of the 18-month period to commence or continue construction (or to construct the project in phases), the Department may require the permittee to demonstrate the adequacy of any previous determination of Best Available Control Technology (BACT) for emissions units regulated by the project. For good cause, the permittee may request that this PSD air construction permit be extended. Such a request shall be submitted to the Department's Bureau of Air Regulation at least sixty (60) days prior to the expiration of this permit. [Rules 62-4.070(4), 62-4.080, 62-210.300(1), and 62-212.400(6)(b), F.A.C.]
6. New or Additional Conditions: 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. [Rule 62-4.080, F.A.C.]
7. Source Obligation.
 - (a) Authorization to construct shall expire if construction is not commenced within 18 months after receipt of the permit, if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time. This provision does not apply to the time period between constructions of the approved phases of a phased construction project except that each phase must commence construction within 18 months of the commencement date established by the Department in the permit.
 - (b) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7,

SECTION 2. ADMINISTRATIVE REQUIREMENTS (DRAFT)

1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification

- (c) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

[Rule 62-212.400(12), F.A.C.]

8. Modifications: No emissions unit or facility subject to this permit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
9. Title V Permit: This permit authorizes construction of the permitted emissions unit and initial operation to determine compliance with Department rules. A Title V operation permit is required for regular operation of the permitted emission units. The permittee shall apply for a Title V operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the Department's Bureau of Air Regulation and a copy to the Compliance Authority.
- [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

SECTION 3. EMISSION UNIT SPECIFIC CONDITIONS (DRAFT)

A. Municipal Waste Combustor & Auxiliary Burners – Unit 4

~~The proposed new emissions units are:~~ This section addresses the following group of emissions units.

EU No.	Emission Unit Descriptions
<u>100</u>	<u>Ash Handling Building</u>
107	Nominal 288 MMBtu/hr Municipal Waste Combustor & Auxiliary Burners - Unit 4
108	Pebble Lime Storage Silo - Unit 4
109	Dolomitic Lime Storage Silo - Unit 4
110	Activated Carbon Storage Silo - Unit 4
111	Cooling Tower Cell

CONSTRUCTION ACTIVITIES

1. Unconfined Particulate Matter Emissions: Pursuant to Rules 62-296.320(4)(c)1., 3. & 4., F.A.C., reasonable precautions to prevent emissions of unconfined particulate matter include the following requirements consistent with current practices by the permittee:

All roads shall be adequately paved, and vacuum swept if appropriate, to minimize accumulations of ash and dust. The unpaved areas of the facility will be maintained and either sodded or landscaped. Hoods, fans, filters, or similar equipment will be used to contain, capture, and/or vent particulate matter. The conveyor systems of the facility will be enclosed or covered. The ash will be wetted before being stored in the ash handling building. 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 or leaving) shall be under negative air pressure. [Rule 62-296.320(4)(c)2., F.A.C.; and, items proposed by the applicant.]

2. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor. [Rule 62-296.320(2), F.A.C.]

SECTION 3. EMISSION UNIT SPECIFIC CONDITIONS (DRAFT)

B. Municipal Waste Combustor & Auxiliary Burners – Unit 4

This section of the permit addresses the following emissions units.

EU No. 107

Description: Emissions unit 107 consists of a nominal 600 TPD mass-burn municipal waste combustor (MWC) with two nominal 50 mmBtu/hr natural gas-fired auxiliary burners. The project will also include: 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; a urea reagent storage tank; and a new settling basin. Exhaust from the new unit will be directed to a separate flue already constructed within the existing 220 foot stack.

Steam Capacity: The nominal steam production rate is 163,780 pounds of steam per hour. The maximum steam production limit is 190,000 lb steam/hr (4-hour block average). The nominal heat input is approximately 288 mmBtu/hour.

Controls: Controls consist of: efficient combustion on the grate and furnace; flue gas recirculation (FGR); a spray dryer/absorber in conjunction with a fabric filter (SD/FF) for control of acid gases, particulate matter, and most metals; activated carbon injection (ACI) to enhance mercury (Hg) removal; selective non-catalytic reduction (SNCR) by ammonia or urea injection for NOx control.

Stack Parameters: The Department may require the permittee to perform additional air dispersion modeling should the actual specified stack dimensions change. The following summarizes the exhaust characteristics:

<u>Fuel</u>	<u>Heat Input Rate</u>	<u>Exhaust Temp., °F</u>	<u>Flow Rate ACFM</u>
MSW	~288 mmBtu/hour	270° F	~125,000

Continuous Monitors: The unit is equipped with continuous emissions monitoring systems (CEMS) to measure and record NOx, CO, SO2, and Hg as well as instrumentation to monitor steam flow, flue gas flow rate, oxygen, temperature, and opacity.

APPLICABLE STANDARDS AND REGULATIONS

1. **BACT Determinations:** The emission unit addressed in this section is subject to a Best Available Control Technology (BACT) determination for nitrogen oxides (NOx), carbon monoxide (CO), MWC acid gases (SO2+HCl); SO2 as an individual pollutant, and MWC organics (dioxin/furan). [Rule 62-212.400, F.A.C.]
2. **NSPS Requirements:** The municipal waste combustor and auxiliary burners shall comply with all applicable requirements of 40 CFR 60, listed below, adopted by reference in Rule 62-204.800(7)(b), F.A.C. The Department determines that the BACT emissions performance requirements are as stringent as or more stringent than the limits imposed by the applicable NSPS provisions. Some separate reporting and monitoring may be required by the individual subparts.

(a) Subpart A, General Provisions, including:

- 40 CFR 60.7, Notification and Record Keeping
- 40 CFR 60.8, Performance Tests
- 40 CFR 60.11, Compliance with Standards and Maintenance Requirements
- 40 CFR 60.12, Circumvention
- 40 CFR 60.13, Monitoring Requirements
- 40 CFR 60.19, General Notification and Reporting Requirements

(b) Subpart Eb, Standards of Performance for Large Municipal Waste Combustors

SECTION 3. EMISSION UNIT SPECIFIC CONDITIONS (DRAFT)

B. Municipal Waste Combustor & Auxiliary Burners – Unit 4

3. Emission Standards for Stationary Sources: This unit has a charging rate of 40 tons per day or more and is subject to the requirements of Stationary Sources – Emission Standards for Waste-To-Energy Facilities of Rule 62-296.416, F.A.C.

AIR POLLUTION CONTROL TECHNOLOGY

4. Control Equipment: The owner or operator shall install, operate and maintain the following air pollution control equipment consistent with the manufacturers' specifications.

NO_x Controls: A flue gas recirculation system (FGR) will be used to limit NO_x formation. A urea-based selective non-catalytic reduction (SNCR) system will be employed for the destruction of NO_x.

MWC Acid Gas Control: A spray dryer (SD) with lime injection will be installed to absorb MWC acid gases.

MWC Organics and Mercury (Hg): An activated carbon injection (ACI) system will be installed to adsorb MWC organics and mercury (Hg).

Particulate Matter (PM/PM₁₀): A fabric filter (FF) baghouse, including absorption/adsorption reagent, will be installed to remove particulate matter.

[BACT Determination, and Rules 62-4.070(1), and (3), F.A.C.]

OPERATIONAL DESCRIPTIONS AND LIMITATIONS

5. Nameplate: The combustor (boiler) shall have a metal name plate affixed in a conspicuous place on the shell showing the manufacturer, model number, type of waste, and rated capacity. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

6. Hours of Operation: This emissions unit may operate continuously, i.e., 8,760 hours/year. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

7. Permitted Capacity: The maximum steam production rate shall not exceed 190,000 pounds steam per hour (on a 4-hour block arithmetic average).

{Permitting Note: The nominal capacity of Unit 4 is 600 tons per day and has been determined to be greater than 250 tons per day, thus classifying the unit as a "large MWC unit" under NSPS - 40 CFR 60, Subpart Eb.}

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C., 40 CFR 60, Subpart Eb, and Design]

8. Maximum Demonstrated Municipal Waste Combustor Unit Load: Unit load means the steam load of the municipal waste combustor measured as specified in 40 CFR 60.58b(I)(6). Each unit shall not operate at a load level greater than 110 percent of the unit's "maximum demonstrated unit load." Maximum demonstrated municipal waste combustor unit load means the highest 4-hour arithmetic average municipal waste combustor unit load achieved during four consecutive hours during the most recent dioxin/furan performance test demonstrating compliance with the applicable limit for municipal waste combustor organics. Higher loads are allowed for testing purposes as specified in 40 CFR 60.53b(b). [40 CFR 60.34b(b), 60.51b, 60.53b(b), and 60.58b(I)(6)]

9. Prohibited Fuels:

a. The facility shall not burn:

- i. those materials that are prohibited by state or federal law;
- ii. those materials that are prohibited by this permit;
- iii. lead acid batteries;
- iv. hazardous waste;

SECTION 3. EMISSION UNIT SPECIFIC CONDITIONS (DRAFT)

B. Municipal Waste Combustor & Auxiliary Burners – Unit 4

- v. nuclear waste;
 - vi. radioactive waste;
 - vii. sewage sludge;
 - viii. explosives; and
 - ix. beryllium-containing waste, as defined in 40 CFR 61, Subpart C.
- b. Further, the facility shall not knowingly burn:
- i. nickel-cadmium batteries pursuant to Section 403.7192 (3);
 - ii. mercury containing devices and lamps pursuant to Sections 403.7186(2), and (3);
 - iii. untreated biomedical waste from biomedical waste generators regulated pursuant to Chapter 64E-16, F.A.C., and from similar generators (or sources);
 - iv. segregated loads of biological waste; and
 - v. Chromated Copper Arsenate (CCA) treated wood.
10. Authorized 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). 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:
- a. Subject to the conditions and limitations contained in this permit, the following other solid waste may be used as fuel at the facility:
- i. Confidential, proprietary or special documents (including but not limited to business records, lottery tickets, event tickets, coupons and microfilm);
 - ii. 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;
 - iii. Wood pallets, clean wood, and land clearing debris;
 - iv. Packaging materials and containers;
 - v. Clothing, natural and synthetic fibers, fabric remnants, and similar debris, including but not limited to aprons and gloves; or
 - vi. Rugs, carpets, and floor coverings, but not asbestos-containing materials or polyethylene or polyurethane vinyl floor coverings.
- b. 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 36**. of this subsection.
- c. 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 36**. of this subsection.
- i. Construction and demolition debris.
 - ii. Oil spill debris from aquatic, coastal, estuarine or river environments. Such items or materials include but are not limited to rags, wipes, and absorbents.

SECTION 3. EMISSION UNIT SPECIFIC CONDITIONS (DRAFT)

B. Municipal Waste Combustor & Auxiliary Burners – Unit 4

- iii. 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.
- iv. 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.
- v. Waste materials that:
 - (a) are generated in the manufacture of items in categories (iii) or (iv), above and are functionally or commercially useless (expired, rejected or spent); or
 - (b) 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.
- vi. Waste materials that contain oil from:
 - (a) the routine cleanup of industrial or commercial establishments and machinery; or
 - (b) spills of virgin or used petroleum products. Such items or materials include but are not limited to rags, wipes, and absorbents.
- vii. Used oil and used oil filters. Used oil containing a polychlorinated biphenyls (PCB) concentration equal or greater than 50 pound per minute (ppm) shall not be burned, pursuant to the limitations of 40 CFR 761.20(e). {Permitting note: Waste materials specifically authorized above do not require Department approval.}
- viii. 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.

[Rule 62-4.070(1), and (3), F.A.C.]

- 11. Segregated Loads: 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.
- 12. Combustion Practices: 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.

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.

MONITORING OF OPERATIONS

- 13. Continuous Steam Flow Monitoring: Municipal waste combustor unit load means the steam load of the municipal waste combustor unit measured as specified in §60.58b(i)(6). The owner or operator shall install,

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calibrate, maintain, and operate a steam flow meter, measure steam flow in kilograms (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 flow shall be calculated in 4-hour block arithmetic averages. Higher unit loads are allowed for testing purposes pursuant to 40 CFR 60.53b(b). [Rules 62-204.800(8) and 62-4.070(1) and (3), F.A.C., and 40 CFR 60.53(a) and 60.58b(i)]

EMISSIONS STANDARDS

14. Emissions from Unit 4 shall not exceed the emissions standards listed in the following table or in **Specific Conditions 15. - 22.** and using the test methods and procedures described in **Specific Conditions 23. - 27.**

Pollutant	Emission Standard/Limit¹	Lb/hour	Basis
Nitrogen Oxides (NO _x)	<u>1st year of operation:</u>		
	150 ppmvd - 24 hour block average and 110 ppmvd- 30 day rolling average	79.8 58.5	Subpart Eb Limit PTE
	<u>Thereafter:</u>		
	110 ppmvd - 24 hour block average and 90 ppmvd - 12 month rolling average	58.5 47.9	BACT BACT
Carbon Monoxide (CO)	80 ppmvd – 30-day rolling avg.	25.9	BACT
	100 ppmvd - 4 hr block average	32.4	BACT/Eb
Sulfur Dioxide (SO ₂)	26 ppmvd - 24 hour block average or 80% reduction ²	19.2	BACT/Eb
Hydrogen Chloride (HCl) ³	25 ppmvd or 95% reduction ²	25.4	BACT/Eb
Particulate Matter (PM/PM ₁₀)	12.0 mg/dscm	3.3	Avoid PSD
Lead (Pb)	140 µg/dscm	NA	Subpart Eb
Mercury (Hg)	28 µg/dscm or 85% reduction ²	0.022	Avoid PSD/Eb
Cadmium (Cd)	10 µg/dscm	NA	Subpart Eb
Dioxins/Furans ⁴	13.0 ng/dscm	3.61 x 10 ⁻⁶	BACT/Eb
Opacity	10 % - 6 minute average	NA	BACT/Eb
Ammonia Slip	@ 195 MMBtu/hr: 10 ppmvd		
	@ 260 MMBtu/hr: 15 ppmvd	NA	PM, Opacity

¹ All concentration values are corrected to 7% O₂.
 µg/dscm: Micrograms per dry standard cubic meter
 mg/dscm: Milligrams per dry standard cubic meter
 ng/dscm: Nanograms per dry standard cubic meter
 ppmvd: Part per million dry volume
 NA: not applicable

² Whichever standard is less stringent.

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- ³ HCl is not a BACT pollutant. However, it must be limited together with SO₂ because they both comprise MWC-Acid Gases which has its own PSD threshold.
- ⁴ Dioxins/Furans: Total tetra through octa-chlorinated dibenzo-p-dioxins and dibenzofurans.
15. Nitrogen Oxides (NO_x): During the first calendar year of operation, emissions of NO_x in the stack exhaust gas as measured by the required CEMS shall exceed neither 150 ppmvd on a 24-hr daily arithmetic average nor 79.8 lb/hr and shall exceed neither 110 ppmvd nor 58.5 lb/hr on a 30-operating day rolling average. Thereafter, emissions of NO_x in the stack exhaust gas as measured by the required CEMS shall exceed neither 110 ppmvd nor 58.5 lb/hr on a 24-hr daily arithmetic average and shall exceed neither 90 ppmvd nor 47.9 lb/hr on a 12-month rolling average, rolled monthly.
- {Permitting Note: The owner or operator may request a permit modification of the 90 ppmvd NO_x standard if ammonia plume or slip issues arise and persist at the facility. The Department reserves the right to make a final determination on any such request.}*
16. Carbon Monoxide (CO): Emissions of CO in the stack exhaust gas as measured by the required CEMS shall exceed neither 100 ppmvd on a 4-hr block average nor 32.4 lb/hr and shall exceed neither 80 ppmvd nor 25.9 lb/hr on a 30-operating day rolling average.
17. Sulfur Dioxide (SO₂): Emissions of SO₂ as measured by the required CEMS shall exceed neither 26 ppmvd nor 19.2 lb/hr on a 24-hr daily geometric mean, or an emissions reduction of 80 percent shall be achieved.
18. Hydrogen Chloride (HCl): Emissions of HCl shall exceed neither 25 ppmvd nor 25.4 lb/hr or, an emissions reduction of 95 percent shall be achieved as demonstrated during the required stack test.
19. Mercury (Hg): Emissions of Hg shall not exceed 28 µg/dscm or an emissions reduction of 85 percent shall be achieved as demonstrated during the required annual stack test. During the first two years of operation, emissions of Hg shall not exceed 0.022 lb/hr as measured during quarterly stack tests to provide reasonable assurance that 12-month emissions are less than the applicable PSD threshold of 200 lb/yr.
- After the certification of the Hg-CEMS as described in **Specific Condition 35.**, the owner or operator may demonstrate compliance with all Hg limits in this permit with data collected during an annual stack test or from the Hg-CEMS.
- {Permitting Note: If the Hg-CEMS is certified prior to the end of the first two years of operation, the permittee may use the CEMS in lieu of the remaining quarterly tests.}*
20. Dioxins/Furans: Emissions of dioxins/furans shall exceed neither 13.0 ng/dscm nor 3.61 x 10⁶ lb/hr.
21. Particulate Matter (PM/PM₁₀): Emissions of PM shall exceed neither 12.0 mg/dscm nor 3.3 lb/hr. This will simultaneously demonstrate compliance with the PM₁₀ limits.
- {Permitting note: Compliance with this condition will also demonstrate that emissions are less than the 15 TPY PSD thresholds for PM₁₀ and MWC-Metals.}*
22. Opacity: Visible emissions shall not exceed 10 percent opacity on a 6-minute average as measured by the required continuous opacity monitoring system (COMS) and measured by an annual visible emissions test (VE).

TEST METHODS AND PROCEDURES

23. Test Methods: Any required stack test shall be performed in accordance with the following methods.

EPA Method	Description of Method and Comments
1 - 4	Determination of Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content. Methods shall be performed as necessary to support other methods.

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EPA Method	Description of Method and Comments
5	Determination of Particulate Emissions. The minimum sample volume shall be 30 dry standard cubic feet.
6C	Determination of SO ₂ Emissions (Instrumental).
7E	Determination of NO _x Emissions (Instrumental). NO _x emissions testing shall be conducted with the air heater operating at the highest heat input possible during the test.
9	Visual Determination of Opacity
10	Measurement of Carbon Monoxide Emissions (Instrumental). The method shall be based on a continuous sampling train.
23	Measurement of Dioxin/Furan Emissions
26 or 26A	Determination of Hydrogen Chloride Emissions
29	Determination of Metals Emissions from Stationary Sources
CTM-027	Procedure for Collection and Analysis of Ammonia in Stationary Source <ul style="list-style-type: none"> • This is an EPA conditional test method. • The minimum detection limit shall be 1 ppm.

Method CTM-027 is published on EPA's Technology Transfer Network Web Site at "<http://www.epa.gov/ttn/emc/ctm.html>". The other methods are specified in Appendix A of 40 CFR 60, adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. Tests shall be conducted in accordance with the appropriate test method and the applicable requirements specified in this permit, and NSPS Subpart A in 40 CFR 60. [Rules 62-204.800, F.A.C.; 40 CFR 60, Appendix A]

24. **Testing Requirements:** Initial tests shall be conducted between 90% and 100% of permitted capacity; otherwise, this permit shall be modified to reflect the true maximum capacity as constructed. Subsequent annual tests shall be conducted between 90% and 100% of permitted capacity in accordance with the requirements of Rule 62-297.310(2), F.A.C. [Rule 62-297.310(7)(a) and (b), F.A.C.; 40 CFR 60.8]
25. **Initial Compliance Demonstration:** Initial compliance stack tests shall be conducted within 60 days after achieving the maximum production rate, but not later than 180 days after the initial startup. In accordance with the test methods specified in this permit, Unit 4 exhaust stack gas shall be tested to demonstrate compliance with the emission standards for NO_x, CO, SO₂, HCl, PM/PM₁₀, lead, cadmium, Hg, dioxin/furans, and ammonia. The permittee shall provide the Compliance Authority with any other initial emissions performance tests conducted to satisfy vendor guarantees. [Rule 62-297.310(7)(a) and (b), F.A.C.; 40 CFR 60.8]
26. **Subsequent Compliance Testing:** Annual compliance stack tests for NO_x, CO, SO₂, HCl, PM/PM₁₀, lead, cadmium, dioxins/furans, and ammonia shall be conducted during each federal fiscal year (October 1st to September 30th). Data collected from the reference method during the required RATA tests for CO, NO_x, and SO₂ may be used to satisfy the annual testing requirement provided the notification requirements and emission testing requirements for performance and compliance tests of this permit are satisfied.

Prior to the certification of the Hg-CEMS as described in **Specific Condition 35.**, performance tests for Hg emissions shall be conducted quarterly during the first two years of operation then on a calendar year basis to demonstrate compliance with the concentration/reduction standards.

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After the certification of the Hg-CEMS as described in **Specific Condition 35.**, the owner or operator may demonstrate compliance with all Hg limits in this permit with data collected from the Hg-CEMS.

[Rules 62-297.310(7)(a) and (b), and 62-296.416, F.A.C., and 40 CFR 60.8 and 60.58b]

27. Continuous Compliance: The permittee shall demonstrate continuous compliance with the CO, NO_x, and SO₂ emissions standards based on data collected by the certified CEMS. The permittee shall demonstrate continuous compliance with the opacity limit based on data collected by the required COMS. [Rule 62-210.200 (BACT), F.A.C., and 40 CFR 60, Subpart Eb]

EXCESS EMISSIONS

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

28. Department Regulations: The following conditions apply only to the emissions limits given in **Specific Conditions 14. - 22.** that were specified pursuant to BACT or to avoid PSD applicability.
- Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department for longer duration. The Department authorizes three hours in any 24-hour period for this emissions unit. A malfunction means any unavoidable failure of air pollution control equipment or process equipment to operate in a normal or usual manner.
 - 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.
 - The permittee shall notify the Compliance Authority within one working day of discovering any emissions in excess of a CEMS standard subject to the specified averaging period. All such reasonably preventable emissions shall be included in any CEMS compliance determinations. All valid emissions data (including data collected during startup, shutdown and malfunction) shall be used to report emissions for the Annual Operating Report.

[Rule 62-210.700, F.A.C.]

29. Regulations pursuant to 40 CFR 60, Subpart Eb: The following conditions apply only to the emissions limits given in **Specific Conditions 14. - 22.** that were specified pursuant to 40 CFR 60, Subpart Eb.
- The opacity standards* set forth in 40 CFR 60 shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. [40 CFR 60.11(c)]
 - Startup, Shutdown and Malfunction*: Except as provided by 40 CFR 60.56b, the standards under 40 CFR 60, Subpart Eb, as incorporated in Rule 62-204.800(8)(b), F.A.C., apply at all times except during periods of startup, shutdown, or malfunction. Duration of startup or shutdown periods are limited to 3 hours per occurrence, except as provided in 40 CFR 60.58b(a)(1)(iii). During periods of startup, shutdown, or malfunction, monitoring data shall be dismissed or excluded from compliance calculations, but shall be recorded and reported in accordance with the provisions of 40 CFR 60.59b(d)(7).
 - The startup period commences when the affected facility begins the continuous burning of municipal solid waste and does not include any warm-up period when the affected facility is combusting fossil fuel or other non-municipal solid waste fuel, and no municipal solid waste is being fed to the combustor.

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- ii. Continuous burning is the continuous, semi-continuous, or batch feeding of municipal solid waste for purposes of waste disposal, energy production, or providing heat to the combustion system in preparation for waste disposal or energy production. The use of municipal solid waste solely to provide thermal protection of the grate or hearth during the startup period when municipal solid waste is not being fed to the grate is not considered to be continuous burning.

[40 CFR 60.58b(a)]

- c. *Special Provisions for CO:* For the purpose of compliance with the carbon monoxide emission limits in 40 CFR 60.53b(a), if a loss of boiler water level control (e.g., loss of combustion air fan, induced draft fan, combustion grate bar failure) is determined to be a malfunction, the duration of the malfunction period is limited to 15 hours per occurrence. [40 CFR 60.58b(a)(1)(iii)]

CONTINUOUS MONITORING REQUIREMENTS

30. **CEM Systems:** The permittee shall install, calibrate, maintain, and operate continuous emission monitoring systems (CEMS) to measure and record the emissions of CO, NO_x, Hg and SO₂ from Unit 4 in a manner sufficient to demonstrate continuous compliance with the CEMS emission standards of this subsection. All continuous monitoring systems other than the Hg CEMS shall be installed and functioning within the required performance specifications by the time of the initial performance tests. The Hg CEMS shall be installed and functioning within the required performance specifications by the end of the second year of operation as specified in **Specific Condition 35**.

- a. *CO Monitor:* The CO monitor shall be certified pursuant to 40 CFR 60, Appendix B, Performance Specification 4 or 4A and shall comply with all requirements of 40 CFR 60.58b. Quality assurance procedures shall conform to the requirements of 40 CFR 60, Appendix F, and the Data Assessment Report of Section 7 shall be made each calendar quarter, and reported semiannually to the Compliance Authority. The required RATA tests shall be performed using EPA Method 10 in Appendix A of 40 CFR 60 and shall be based on a continuous sampling train. The CO monitor span values shall be set appropriately, considering the allowable methods of operation and corresponding emission standards.
- b. *NO_x Monitor:* The NO_x monitor shall be certified pursuant to 40 CFR 60, Appendix B, Performance Specification 2 and shall comply with all requirements of 40 CFR 60.58b. Quality assurance procedures shall conform to the requirements of 40 CFR 60, Appendix F, and the Data Assessment Report of Section 7 shall be made each calendar quarter, and reported semiannually to the Compliance Authority. The required RATA tests shall be performed using EPA Method 7E in Appendix A of 40 CFR 60. The NO_x monitor span values shall be set appropriately, considering the allowable methods of operation and corresponding emission standards.
- ac. *SO₂ Monitor:* The SO₂ monitor shall be certified pursuant to 40 CFR 60, Appendix B, Performance Specification 2 and shall comply with all requirements of 40 CFR 60.58b. Quality assurance procedures shall conform to the requirements of 40 CFR 60, Appendix F. The required RATA tests shall be performed using EPA Method 6C in Appendix A of 40 CFR 60. The SO₂ monitor span values shall be set appropriately, considering the expected range of emissions and corresponding emission standards.
- bd. *Diluent Monito:* A continuous emission monitoring system for measuring the oxygen content of the flue gas at each location where carbon monoxide, sulfur dioxide, nitrogen oxides emissions are monitored shall be installed, calibrated, maintained, and operated in accordance with the requirements of 40 CFR 60.58b.
- ee. *Mercury Monitor:* A mercury monitor (Hg CEMS) shall be installed, certified and operated as described in **Specific Condition 35**. below.

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31. **COMS**: A continuous opacity monitoring system (COMS) shall be installed, calibrated, operated, and maintained in exhaust stack in a manner sufficient to demonstrate continuous compliance with the opacity standard specified in this section. Opacity shall be based on a 6-minute block average computed from at least one observation (measurement) every 15 seconds. For the COMS, the 6-minute block averages shall begin at the top of each hour. The COMS shall meet the applicable requirements of 40 CFR 60.58b(c)(8).
32. **CEMS/COMS Certification and Initial Startup**: Each CEMS/COMS, other than the Hg CEMS, required by this permit shall be installed prior to startup. Within 60 calendar days of achieving the maximum production rate, but no later than 180 calendar days after initial startup, the owner or operator shall certify each CEMS/COMS. Upon certification of each CEMS/COMS, the owner or operator shall demonstrate compliance with all applicable standards as specified in this permit. The Hg CEMS shall be installed and functioning within the required performance specifications within the first two years of operation as specified in **Specific Condition 35**. [Rules 62-4.070(3), 62-210.800, 62-210.200(BACT) and 62-297.520, F.A.C.; 40 CFR 60.7(a), 60.13(b), and 60.58b, and Appendix B]
33. **CEMS Data Requirements**: The CEMS shall express the results in the units of the applicable standard and in accordance with 40 CFR 60 subparts A, and Eb.
- a. *Data Exclusion*: Except for monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, each CEMS shall monitor and record emissions during all operations including episodes of startups, shutdowns, and malfunctions. Limited amounts of CEMS emissions data (other than mercury data) recorded during some of these episodes may be excluded from the corresponding compliance demonstration subject to the provisions of **Specific Conditions 28. and 29.** in this subsection. The permittee shall minimize the duration of data excluded for such episodes to the extent practicable.
- b. *Availability*: Monitor availability for each CEMS used to demonstrate compliance shall be 95% or greater in any calendar quarter. Monitor availability shall be reported in the quarterly excess emissions report. In the event 95% availability is not achieved, the permittee shall provide the Department with a report identifying the problems in achieving 95% availability and a plan of corrective actions that will be taken to achieve 95% availability. The permittee shall implement the reported corrective actions within the next calendar quarter. Failure to take corrective actions or continued failure to achieve the minimum monitor availability shall be violations of this permit, except as otherwise authorized by the Compliance Authority. The monitor availability requirements of this condition do not apply to the Hg CEMS for the first two years of operation of the CEM system. (This is consistent with the Hg CEMS availability requirement of subpart Eb.)
34. **Continuous Flow Monitor**: A continuous flow monitor shall be installed to determine the stack exhaust flow rate to be used in determining mass emission rates. The flow monitor shall be certified pursuant to 40 CFR 60, Appendix B, Performance Specification 6.
[Rules 62-210.200(BACT), 62-204.800(8), and 62-4.070(1) and (3), F.A.C.]
35. **Mercury Continuous Emissions Monitoring System (Hg-CEMS)**: Within 24 months of commencing operation, the owner or operator shall install and certify a mercury CEMS demonstrated to meet the requirements in Performance Specification 12A (PS-12A), "Specifications and Test Procedures for Total Vapor Phase Mercury Continuous Monitoring Systems in Stationary Sources," or that has passed verification tests conducted under the auspices of the U.S. Environmental Protection Agency's (EPA) Environmental Technology Verification (ETV) Program. If the vendor provides to the Department verification of certification difficulties such that the CEMS cannot be certified by the certification deadline, and every reasonable effort has been made to do so, the Department shall grant a reasonable extension of time to certify the CEMS. After certification the owner or operator will begin reporting Hg mass emissions

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data. The owner or operator shall adhere to the calibration drift and quarterly performance evaluation procedures and ongoing data quality assurance procedures in 40 CFR Part 60, Appendix F or 40 CFR Part 75, Appendix B. The mass emissions shall be estimated based on the actual data collected no later than 10 days following the end of the month. The mercury monitoring data results shall be submitted quarterly. The CEMS shall only be used as the method of compliance if the owner or operator, at a minimum, meets the requirements of 40 CFR 60.58b(n). Prior to use of the Hg-CEMS as the method to demonstrate compliance, the owner or operator shall submit written notice to the Department, and receive approval for missing data substitution and a data calculation approach plans. [Rules 62-4.070(1) and (3), and 62-210.200(BACT), F.A.C., 40 CFR 60.58b, and, Hillsborough County Environmental Protection Commission Local Ordinance 1-3.53.1(f), *Municipal Solid Waste Incinerators* (for Hg monitoring)]

REPORTING AND RECORD KEEPING REQUIREMENTS

36. **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 10.** of this subsection:
- Each segregated load of non-MSW materials, subject to the percentage weight limitations of **Specific Condition 10.**, 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.

[Rules 62-4.070(1) and (3), and 62-210.200(BACT), F.A.C.]

37. **Stack Test Reports:** The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Compliance Authority on the results of each such test. The required test report shall be filed with the Compliance Authority as soon as practical but no later than 45 days after the last sampling run of each test is completed. The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Compliance Authority to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the as specified in Rule 62-297.310(8), F.A.C. [Rule 62-297.310(8), F.A.C.]
38. **Malfunction Notifications:** If temporarily unable to comply with any condition of the permit due to breakdown of equipment (malfunction) or destruction by hazard of fire, wind or by other cause, the permittee shall immediately (within one working day) notify the Compliance Authority. Notification shall include pertinent information as to the cause of the problem, and what steps are being taken to correct the problem and to prevent its recurrence, and where applicable, the owner's intent toward reconstruction of

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destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with Department rules. If requested by the Compliance Authority, the owner or operator shall submit a quarterly written report describing the malfunction. [Rules 62-210.700(6) and 62-4.130, F.A.C.]

39. SIP Quarterly Report: Within 30 days following the end of each calendar quarter, the permittee shall submit a report to the Compliance Authority summarizing: equipment malfunctions resulting in excluded CEMS data and/or excess emissions; and the monitor availability of each CEMS. The report shall contain the information and follow the general format specified in 40 CFR 60.7(c), subpart A. [Rules 62-4.070(3), 62-4.130, and 62-210.200(BACT), F.A.C.]
40. Annual Operating Report: The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by ~~March~~ April 1st of each year. [Rule 62-210.370, F.A.C.]

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C. Ash Handling Building, Lime and Carbon Storage Silos

This section addresses the following emissions units.

ID No.	Emission Unit Description
<u>100</u>	<u>Ash Handling Building</u>
109	Dolomitic Lime Storage Silo – Unit 4
110	Activated Carbon Storage Silo – Unit 4
108	Pebble Lime Storage Silo – Unit 4

EQUIPMENT AND CONTROL TECHNOLOGY

1. Equipment Description: The permittee is authorized to construct one pebble lime storage silo, one dolomitic lime storage silo, and one activated carbon storage silo. Each silo will have a volume of approximately 2,900 cubic feet and will be equipped with its own fabric filter baghouse. [Application and Design]
2. Baghouse Controls: Each emissions unit identified for lime and carbon storage shall be controlled by a baghouse system. Each required baghouse shall be designed, operated, and maintained to achieve a PM design specification of 0.015 gr/dscf. [Application, Design and Rule 62-4.070(3), F.A.C.]
3. Wet Scrubber Controls: As part of this project, the ash handling building is being expanded. Currently, the building exhaust is controlled by a baghouse. In conjunction with the ash building expansion, the permittee shall install a wet dust collection system in addition to the existing baghouse to control the ventilation exhaust from the ash handling building. The wet scrubber shall be designed for the following specifications:
 - a. Approximately 40% control for submicron particles;
 - b. 80% control for particle > 1.0 micron;
 - c. 95% control for particle > 2.0 micron;
 - d. 97% control for particle > 3.0 micron;
 - e. 98% control for particle > 5.0 micron; and
 - f. 99% control for particle > 10.0 micron.

Within 60 days of initial startup of the wet scrubber, the permittee shall conduct an initial test at the inlet to the wet scrubber to determine the particle size distribution and estimate the overall expected control efficiency based on the above vendor specifications. The test results shall be submitted to the Permitting and Compliance Authorities within 45 days of completing the test. Devices shall be installed on the wet scrubbing system to measure the scrubber water circulating flow rate and scrubber pressure differential. The permittee shall submit the final design specifications to the Compliance Authority within 30 days of final equipment selection. [Application, Design and Rule 62-4.070(3), F.A.C.]

PERFORMANCE REQUIREMENTS

34. Hours of Operation: These emission units may operate continuously (8,760 hours/year). [Rules 62-4.160(2), and 62-210.228(PTE), F.A.C.]
45. Emissions Limits: The following standards apply to each emissions point of this unit:

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C. Ash Handling Building, Lime and Carbon Storage Silos

- a. Visible emissions are limited to 5% opacity from each of the above listed emissions points controlled by a baghouse or wet scrubber.
- b. Fugitive emissions are limited to 10% opacity from any emissions point not controlled by a baghouse or wet scrubber.

[Rule 62-070(3), F.A.C.]

{Permitting Note: ~~The baghouses are designed to control PM emissions to 0.015 grains/dry standard cubic foot (gr/dscf).~~ The 5% opacity limitation is consistent with ~~this~~ the design specifications and provides reasonable assurance that annual emissions of PM/PM₁₀ for all emission points in this emissions unit systems will be less than ~~0.5~~ 0.67 TPY.}

[Rules 62-4.070(3), F.A.C.]

- 56. **Compliance Demonstrations:** Each emission point shall be tested to demonstrate initial compliance with the emission standards for visible emissions in accordance with EPA Method 9. The tests shall be conducted within 60 days after achieving the maximum production rate at which the unit will be operated, but not later than 180 days after the initial startup. Thereafter, compliance with the visible emission limits for each emission point shall be demonstrated during each federal fiscal year (October 1st to September 30th). [Rules 62-4.070(3), and 62-297.310(7)(a), F.A.C.]
- 67. **Test Methods:** Any required tests shall be performed in accordance with the following reference methods and the applicable requirements of Appendix C of this permit, and the applicable NESHAP provisions.

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

- 78. **Baghouse and Wet Scrubber O&M Plan:** For each baghouse and the wet scrubber, the permittee shall prepare an operation and maintenance (O&M) plan to define the PM outlet specifications, address proper operation, parametric monitoring, and a schedule for conducting periodic inspections and preventive maintenance. Baghouse and wet scrubber inspections and maintenance activities shall be recorded in a written log. The O&M plan shall be submitted to the Compliance Authority prior to the initial compliance tests for ~~this~~ these units. [Rule 62-4.070(3), F.A.C.]
- 9. **Wet Scrubber Monitoring:** The wet scrubber shall be operated in accordance with the manufacturer's recommendations for the given operating conditions. The permittee shall observe and record the scrubber water circulating flow rate and scrubber pressure differential with a frequency specified in the Title V air operation permit. [Rule 62-4.070(3), F.A.C.]
- 810. **Test Reports:** For each test conducted, the permittee shall file a test report including the information specified in Rule 62-297.310(8), F.A.C. with the compliance authority no later than 45 days after the last run of each test is completed. [Rules 62-297.310(8), F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

D. Cooling Tower

This section addresses the following emissions unit.

EU No.	Emissions Unit Description
111	One Cooling Tower Cell

EQUIPMENT

1. Cooling Tower: The permittee is authorized to construct one cooling tower cell with the following nominal design characteristics: a circulating water flow rate of 11,000 gpm; drift eliminators; and a drift rate of no more than 0.001 percent of the circulating water flow. [Application; Design]

EMISSIONS AND PERFORMANCE REQUIREMENTS

2. Drift Rate: Within 60 days of commencing commercial operation, the permittee shall certify that the cooling tower was constructed to achieve the specified drift rate of no more than 0.001 percent of the circulating water flow rate. [Rule 62-210.200(BACT), F.A.C.]

{Permitting Note: This work practice standard is established as BACT avoidance for PM/PM₁₀ emissions from the cooling tower. Based on this design criteria, potential emissions are expected to be less than 0.5 tons of PM per year and less than 0.25 tons of PM₁₀ per year. Actual emissions are expected to be lower than these rates.}

SECTION 4. APPENDICES

Appendix A – NSPS Subpart A, Identification of General Provisions

Emissions units subject to a New Source Performance Standard of 40 CFR 60 are also subject to the applicable requirements of Subpart A, the General Provisions, including:

- § 60.1 Applicability.
- § 60.2 Definitions.
- § 60.3 Units and abbreviations.
- § 60.4 Address.
- § 60.5 Determination of construction or modification.
- § 60.6 Review of plans.
- § 60.7 Notification and Record Keeping.
- § 60.8 Performance Tests.
- § 60.9 Availability of information.
- § 60.10 State Authority.
- § 60.11 Compliance with Standards and Maintenance Requirements.
- § 60.12 Circumvention.
- § 60.13 Monitoring Requirements.
- § 60.14 Modification.
- § 60.15 Reconstruction.
- § 60.16 Priority List.
- § 60.17 Incorporations by Reference.
- § 60.18 General Control Device Requirements.
- § 60.19 General Notification and Reporting Requirements.

Individual subparts may exempt specific equipment or processes from some or all of these requirements. The general provisions may be provided in full upon request.

SECTION 4. APPENDICES

Appendix BD – BACT Determination

Refer to the draft BACT proposal discussed in the initial Technical Evaluation for this project and to the Final Determination issued with the Final Permit for the rationale regarding the following BACT determination for new MWC Unit 4.

Pollutant	Emission Standard/Limit¹	Lb/hour	Pollutant
Nitrogen Oxides (NO _x)	110 ppmvd - 24 hour block average and	58.5	BACT
	90 ppmvd - 12 month rolling average	47.9	BACT
Carbon Monoxide (CO)	80 ppmvd – 30-day rolling avg.	25.9	BACT
	100 ppmvd - 4 hr block average	32.4	BACT/Eb
Sulfur Dioxide (SO ₂)	26 ppmvd - 24 hour block average or 80% reduction ²	19.2	BACT/Eb
Hydrogen Chloride (HCL) ³	25 ppmvd or 95% reduction ²	25.4	BACT/Eb
Dioxins/Furans ⁴	13.0 ng/dscm	3.61 x 10 ⁻⁶	BACT/Eb
Opacity	10% - 6 minute average	NA	BACT/Eb

¹ All concentration values are corrected to 7% O₂.
 µg/dscm: Micrograms per dry standard cubic meter
 mg/dscm: Milligrams per dry standard cubic meter
 ng/dscm: Nanograms per dry standard cubic meter
 ppmvd: Part per million dry volume
 NA: not applicable

² Whichever standard is less stringent.

³ HCl is not a BACT pollutant. However, it must be limited together with SO₂ because they both comprise MWC-Acid Gases which has its own PSD threshold.

⁴ Dioxins/furans: Total tetra through octa-chlorinated dibenzo-p-dioxins and dibenzofurans

1. Nitrogen Oxides (NO_x): Emissions of NO_x in the stack exhaust gas as measured by the required CEMS shall exceed neither 110 ppmvd nor 58.5 lb/hr on a 24-hr daily arithmetic average and shall exceed neither 90 ppmvd nor 47.9 lb/hr on a 12-month rolling average, rolled monthly.
2. Carbon Monoxide (CO): Emissions of CO in the stack exhaust gas as measured by the required CEMS shall exceed neither 100 ppmvd on a 4-hr block average nor 32.4 lb/hr and shall exceed neither 80 ppmvd nor 25.9 lb/hr on a 30-operating day rolling average.
3. Sulfur Dioxide (SO₂): Emissions of SO₂ as measured by the required CEMS shall exceed neither 26 ppmvd nor 19.2 lb/hr on a 24-hr daily geometric mean, or an emissions reduction of 80 percent shall be achieved.
4. Hydrogen Chloride (HCl): Emissions of HCl shall exceed neither 25 ppmvd nor 25.4 lb/hr or, an emissions reduction 95 percent shall be achieved as demonstrated during the required stack test.
5. Dioxins/Furans: Emissions of dioxins/furans shall exceed neither 13.0 ng/dscm nor 3.61 x 10⁻⁶ lb/hr.
{Permitting note: Compliance with this condition will also demonstrate that emissions are less than the 15 TPY PSD thresholds for PM₁₀ and MWC-Metals}
6. Opacity: Visible emissions shall not exceed 10 percent opacity on a 6-minute average as measured by the required continuous opacity monitoring system (COMS) and measured by an annual visible emissions test (VE).

[40 CFR 60.44b, Rules 62-210.200(BACT), 62-204.800(8), 62-4.070, F.A.C.]

SECTION 4. APPENDICES (DRAFT)

Appendix GC – General Conditions

Applicability of 40 CFR 60, Subpart Eb - Standards of Performance for Large Municipal Waste Combustors for Which Construction is Commenced After September 20, 1994 or for Which Modification or Reconstruction is Commenced After June 19, 1996.

The proposed Hillsborough County Resource Recovery Facility Unit 4 is a new Large Municipal Waste Combustor (Large MWC) because it is a waste combustion unit that is capable of combusting more than 250 tons per day (TPD) of municipal solid waste (MSW).

The rules applicable to Large MWC's are given at 40 CFR 60, Sections 60.50b through 60.59b. More specifically, Unit 4 is a Mass Burn Waterwall Furnace. The emission limits applicable to this category of MWC are specified by type of combustor in the relevant sections, paragraphs and tables that address individual pollutants including CO, NO_x, SO₂, HCl, PM, dioxin/furan, opacity, Cd, Hg, Pb, and various emission monitoring and operational parameters.

Subpart 40 CFR 60, Subpart Eb was revised on May 10, 2006 just a few days prior to preparation of the draft permit for Unit 4. The Department is revising the Subpart description normally included in this appendix to reconcile the new requirements with the previous ones. An updated and complete Appendix Eb highlighting the requirements applicable to Unit 4 will be included in the final permitting action if and when issued.

The Department has insured that the Permit is at least as stringent as the requirements of the revised Subpart Eb. Particular attention has been given to the revised PM, Pb, Cd and Hg including the use of Hg - CEMS.

The previous version of 40 CFR 60, Subpart Eb with links to the May 10, 2006 changes is available at:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=e62a6113b2c8fd1679806489b479eab4&rgn=div6&view=text&node=40:6.0.1.1.1.15&idno=40>

SECTION 4. APPENDICES (DRAFT)

Appendix GC – General Conditions

The permittee shall comply with the following general conditions from Rule 62-4.160, F.A.C.

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.
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, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any 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.
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.
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.
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.
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.

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.

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.

SECTION 4. APPENDICES (DRAFT)

Appendix GC – General Conditions

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.
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.
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.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
 - a. Determination of Best Available Control Technology (X);
 - b. Determination of Prevention of Significant Deterioration (X);
 - c. Compliance with National Emission Standards for Hazardous Air Pollutants (); and
 - d. Compliance with New Source Performance Standards (X).
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.
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.

SECTION 4. APPENDICES (DRAFT)
Appendix SC – Construction Permit Standard Conditions

Unless otherwise specified in the permit, the following conditions apply to all emissions units and activities at this facility.

EMISSIONS AND CONTROLS

1. 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 permittee shall notify each Compliance Authority as soon as possible, but at least within one working day, excluding weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; 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 or the regulations. [Rule 62-4.130, F.A.C.]
2. Circumvention: The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly. [Rule 62-210.650, F.A.C.]
3. Excess Emissions Allowed: Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]
4. Excess Emissions Prohibited: Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]
5. Excess Emissions - Notification: In case of excess emissions resulting from malfunctions, the permittee shall notify the Department or the appropriate Local Program in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]
6. VOC or OS Emissions: No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C.]
7. Objectionable Odor Prohibited: No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rules 62-296.320(2) and 62-210.200(203), F.A.C.]
8. General Visible Emissions: No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20 percent opacity. [Rule 62-296.320(4)(b)1, F.A.C.]
9. Unconfined Particulate Emissions: During the construction period, unconfined particulate matter emissions shall be minimized by dust suppressing techniques such as covering and/or application of water or chemicals to the affected areas, as necessary. [Rule 62-296.320(4)(c), F.A.C.]

SECTION 4. APPENDICES (DRAFT)
Appendix SC – Construction Permit Standard Conditions

TESTING REQUIREMENTS

10. Required Number of Test Runs: For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured; provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five-day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five-day period allowed for the test, the Secretary or his or her designee may accept the results of two complete runs as proof of compliance, provided that the arithmetic mean of the two complete runs is at least 20% below the allowable emission limiting standard. [Rule 62-297.310(1), F.A.C.]
11. Operating Rate During Testing: Testing of emissions shall be conducted with the emissions unit operating at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the maximum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test rate 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. [Rule 62-297.310(2), F.A.C.]
12. Calculation of Emission Rate: For each emissions performance test, the indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the three separate test runs unless otherwise specified in a particular test method or applicable rule. [Rule 62-297.310(3), F.A.C.]
13. Test Procedures: Tests shall be conducted in accordance with all applicable requirements of Chapter 62-297, F.A.C.
 - a. Required Sampling Time: Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes. The minimum observation period for a visible emissions compliance test shall be thirty (30) minutes. The observation period shall include the period during which the highest opacity can reasonably be expected to occur.
 - b. Minimum Sample Volume: Unless otherwise specified in the applicable rule or test method, the minimum sample volume per run shall be 25 dry standard cubic feet.
 - c. Calibration of Sampling Equipment: Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1, F.A.C.[Rule 62-297.310(4), F.A.C.]
14. Determination of Process Variables
 - a. Required Equipment: The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

SECTION 4. APPENDICES (DRAFT)
Appendix SC – Construction Permit Standard Conditions

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

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

15. **Sampling Facilities:** The permittee shall install permanent stack sampling ports and provide sampling facilities that meet the requirements of Rule 62-297.310(6), F.A.C.
16. **Test Notification:** The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. [Rule 62-297.310(7)(a)9, F.A.C.]
17. **Special Compliance Tests:** When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department. [Rule 62-297.310(7)(b), F.A.C.]
18. **Test Reports:** The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test. The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed. The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:
- 1) The type, location, and designation of the emissions unit tested.
 - 2) The facility at which the emissions unit is located.
 - 3) The owner or operator of the emissions unit.
 - 4) The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
 - 5) The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
 - 6) The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
 - 7) A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
 - 8) The date, starting time and duration of each sampling run.
 - 9) The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.

SECTION 4. APPENDICES (DRAFT)
Appendix SC – Construction Permit Standard Conditions

- 10) The number of points sampled and configuration and location of the sampling plane.
- 11) For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
- 12) The type, manufacturer and configuration of the sampling equipment used.
- 13) Data related to the required calibration of the test equipment.
- 14) Data on the identification, processing and weights of all filters used.
- 15) Data on the types and amounts of any chemical solutions used.
- 16) Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
- 17) The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
- 18) All measured and calculated data required to be determined by each applicable test procedure for each run.
- 19) The detailed calculations for one run that relate the collected data to the calculated emission rate.
- 20) The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.
- 21) A certification that, to the knowledge of the owner or his authorized agent, all data submitted is true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

[Rule 62-297.310(8), F.A.C.]

RECORDS AND REPORTS

19. Records Retention: All measurements, records, and other data required by this permit shall be documented in a permanent, legible format and retained for at least five (5) years following the date on which such measurements, records, or data are recorded. Records shall be made available to the Department upon request. [Rules 62-4.160(14) and 62-213.440(1)(b)2, F.A.C.]
20. Annual Operating Report: The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by March 1st of each year. [Rule 62-210.370(2), F.A.C]

Florida Department of Environmental Protection

Memorandum

TO: Trina Vielhauer, Bureau of Air Regulation
THROUGH: Jeff Koerner, New Source Review Section *JK*
FROM: Tammy McWade, New Source Review Section *me*
DATE: August 7, 2009
SUBJECT: Project No. 0570261-010-AC (PSD-FL-369B)
Draft Air Construction Permit Revision
Hillsborough County Resource Recovery Facility
New Wet Dust Collection System
Revision of Air Construction Permit for Unit 4 Expansion Project

Covanta Hillsborough, Inc. operates the existing Hillsborough County Resource Recovery Facility, which is located in Hillsborough County at 350 North Falkenburg Road in Tampa, Florida. This project authorizes the installation of a new wet dust collection system for the new expansion of the ash handling building (EU-100). The new wet scrubber will control ventilation exhaust from the ash building. The project is considered a minor modification to existing air construction Permit No. PSD-FL-369A, which authorized construction of the new Unit 4 municipal waste combustor (MWC). Based on the expected emissions, the new wet dust collection system will not trigger PSD preconstruction review for PM, PM₁₀ or MWC metals. Details of the project are provided in the Technical Evaluation and Preliminary Determination issued with the draft permit package.

The applicant initially checked the application form for a concurrent Title V revision, but later withdrew this request and instead asked for an extension of PSD-FL-369 to complete all construction.

I recommend your approval of the attached draft permit package.

Attachments

TLV/jfk/tm

P.E. CERTIFICATION STATEMENT

PERMITTEE

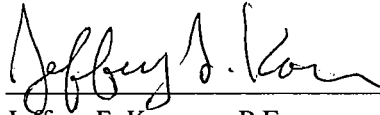
Hillsborough County
Solid Waste Management Department
601 East Kennedy Boulevard
Tampa, Florida 33602

Hillsborough County Resource Recovery Facility
Project No. 0570261-010-AC (PSD-FL-369B)
New Wet Scrubber for Ash Building

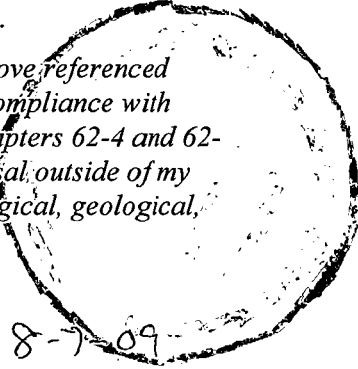
PROJECT DESCRIPTION

Covanta Hillsborough, Inc. operates the existing Hillsborough County Resource Recovery Facility, which is located in Hillsborough County at 350 North Falkenburg Road in Tampa, Florida. This project authorizes the installation of a new wet dust collection system for the new expansion of the ash handling building (EU-100). The new wet scrubber will control ventilation exhaust from the ash building. The project is considered a minor modification to existing air construction Permit No. PSD-FL-369A, which authorized construction of the new Unit 4 municipal waste combustor (MWC). Based on the expected emissions, the new wet dust collection system will not trigger PSD preconstruction review for PM, PM₁₀ or MWC metals. Details of the project are provided in the Technical Evaluation and Preliminary Determination issued with the draft permit package.

I HEREBY CERTIFY that the air pollution control engineering features described in the above referenced application and subject to the proposed permit conditions provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including, but not limited to, the electrical, mechanical, structural, hydrological, geological, and meteorological features).



Jeffery F. Koerner, P.E.
Registration Number: 49441



8-7-09

(Date)

Walker, Elizabeth (AIR)

From: Walker, Elizabeth (AIR)
Sent: Tuesday, August 11, 2009 11:00 AM
To: 'boldissarb@hillsboroughcounty.org'
Cc: 'ghoag@covantaenergy.com'; 'jgorrie@covantaenergy.com'; 'crellinwr@cdm.com';
'velascora@cdm.com'; 'Zhang-Torres'; 'Lee@epchc.org'; 'morera@epchc.org'; Halpin, Mike;
'Forney.Kathleen@epamail.epa.gov'; 'Oquendo.Ana@epamail.epa.gov';
'abrams.heather@epamail.epa.gov'; Gibson, Victoria; Koerner, Jeff; McWade, Tammy
Subject: HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.; 0570261-010-AC/PSD-FL-369B
Attachments: 369bSignedIntentDoc.pdf

Dear Sir/ Madam:

Attached is the official **Notice of Intent to Issue** for the project referenced below. Click on the link displayed below to access the permit project documents and send a "reply" message verifying receipt of the document(s) provided in the link; this may be done by selecting "Reply" on the menu bar of your e-mail software, noting that you can view the documents, and then selecting "Send".

Note: We must receive verification that you are able to access the documents. Your immediate reply will preclude subsequent e-mail transmissions to verify accessibility of the document(s).

Click on the following link to access the permit project documents:

http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0570261.010.AC.D_pdf.zip

Owner/Company Name: HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.

Facility Name: HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.

Project Number: 0570261-010-AC/PSD-FL-369B

Permit Status: DRAFT

Permit Activity: CONSTRUCTION

Facility County: HILLSBOROUGH

Processor: TAMMY MCWADE - (850)488-1906

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Access these documents by clicking on the link provided above, or search for other project documents using the "Air Permit Documents Search" website at <http://www.dep.state.fl.us/air/emission/apds/default.asp>

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Elizabeth Walker
Bureau of Air Regulation
Division of Air Resource Management (DARM)
(850)921-9505

Tracking:

Walker, Elizabeth (AIR)

From: Gorrie, Jason [jgorrie@CovantaEnergy.com]
Sent: Tuesday, August 11, 2009 11:21 AM
To: Walker, Elizabeth (AIR)
Subject: RE: HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.; 0570261-010-AC/PSD-FL-369B

I have received. Thank you.

Jason M. Gorrie
Regional Environmental Manager



Covanta Energy Corporation
350 N. Falkenburg Rd.
Tampa, Florida 33619
813.684.5688 ext.3015 Fax: 813.684.7964
www.CovantaHolding.com

Please consider the environment before printing this email.

From: Walker, Elizabeth (AIR) [mailto:Elizabeth.Walker@dep.state.fl.us]
Sent: Tuesday, August 11, 2009 11:00 AM
To: boldissarb@hillsboroughcounty.org
Cc: Hoag, Glenn; Gorrie, Jason; crellinwr@cdm.com; velascora@cdm.com; Zhang-Torres; Lee@epchc.org; morera@epchc.org; Halpin, Mike; Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; abrams.heather@epamail.epa.gov; Gibson, Victoria; Koerner, Jeff; McWade, Tammy
Subject: HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.; 0570261-010-AC/PSD-FL-369B

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Click on the following link to access the permit project documents:

http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0570261.010.AC.D_pdf.zip

Owner/Company Name: HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.
Facility Name: HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.
Project Number: 0570261-010-AC/PSD-FL-369B
Permit Status: DRAFT
Permit Activity: CONSTRUCTION
Facility County: HILLSBOROUGH

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Elizabeth Walker

Bureau of Air Regulation

Division of Air Resource Management (DARM)

(850)921-9505

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Recipient	Delivery
'boldissarb@hillsboroughcounty.org'	
'ghoag@covantaenergy.com'	
'jgorrie@covantaenergy.com'	
'crellinwr@cdm.com'	
'velascora@cdm.com'	
Zhang-Torres	Delivered: 8/11/2009 11:00 AM
'Lee@epchc.org'	
'morera@epchc.org'	
Halpin, Mike	Delivered: 8/11/2009 11:00 AM
'Forney.Kathleen@epamail.epa.gov'	
'Oquendo.Ana@epamail.epa.gov'	
'abrams.heather@epamail.epa.gov'	
Gibson, Victoria	Delivered: 8/11/2009 11:00 AM
Koerner, Jeff	Delivered: 8/11/2009 11:00 AM
McWade, Tammy	Delivered: 8/11/2009 11:00 AM

Walker, Elizabeth (AIR)

From: Exchange Administrator
Sent: Tuesday, August 11, 2009 11:00 AM
To: Walker, Elizabeth (AIR)
Subject: Delivery Status Notification (Relay)
Attachments: ATT790520.txt; HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.; 0570261-010-AC/PSD-FL-369B

This is an automatically generated Delivery Status Notification.

Your message has been successfully relayed to the following recipients, but the requested delivery status notifications may not be generated by the destination.

Lee@epchc.org
moreira@epchc.org

Walker, Elizabeth (AIR)

From: Mail Delivery System [MAILER-DAEMON@mseive02.rtp.epa.gov]
Sent: Tuesday, August 11, 2009 11:01 AM
To: Walker, Elizabeth (AIR)
Subject: Successful Mail Delivery Report
Attachments: Delivery report; Message Headers

This is the mail system at host mseive02.rtp.epa.gov.

Your message was successfully delivered to the destination(s) listed below. If the message was delivered to mailbox you will receive no further notifications. Otherwise you may still receive notifications of mail delivery errors from other systems.

The mail system

<Forney.Kathleen@epamail.epa.gov>: delivery via 127.0.0.1[127.0.0.1]:10025: 250 OK, sent 4A81878D_3152_49554_7 44336456D3

<Oquendo.Ana@epamail.epa.gov>: delivery via 127.0.0.1[127.0.0.1]:10025: 250 OK, sent 4A81878D_3152_49554_7 44336456D3

<abrams.heather@epamail.epa.gov>: delivery via 127.0.0.1[127.0.0.1]:10025: 250 OK, sent 4A81878D_3152_49554_7 44336456D3

Walker, Elizabeth (AIR)

From: Exchange Administrator
Sent: Tuesday, August 11, 2009 11:01 AM
To: Walker, Elizabeth (AIR)
Subject: Delivery Status Notification (Relay)
Attachments: ATT790628.txt; HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.; 0570261-010-AC/PSD-FL-369B

This is an automatically generated Delivery Status Notification.

Your message has been successfully relayed to the following recipients, but the requested delivery status notifications may not be generated by the destination.

crellinwr@cdm.com

velascora@cdm.com

Walker, Elizabeth (AIR)

From: Gorrie, Jason [jgorrie@CovantaEnergy.com]
To: Walker, Elizabeth (AIR)
Sent: Tuesday, August 11, 2009 11:01 AM
Subject: Read: HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.; 0570261-010-AC/PSD-FL-369B

Your message

To: jgorrie@CovantaEnergy.com
Subject:

was read on 8/11/2009 11:01 AM.

Walker, Elizabeth (AIR)

From: Boldissar, Barry [BoldissarB@HillsboroughCounty.ORG]
Sent: Tuesday, August 11, 2009 11:54 AM
To: Walker, Elizabeth (AIR)
Subject: RE: HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.; 0570261-010-AC/PSD-FL-369B

Documents can be viewed.

From: Walker, Elizabeth (AIR) [mailto:Elizabeth.Walker@dep.state.fl.us]
Sent: Tuesday, August 11, 2009 11:00 AM
To: Boldissar, Barry
Cc: ghoag@covantaenergy.com; jgorrie@covantaenergy.com; crellinwr@cdm.com; velascora@cdm.com; Zhang-Torres; Lee, Diana; Morera, Noel; Halpin, Mike; Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; abrams.heather@epamail.epa.gov; Gibson, Victoria; Koerner, Jeff; McWade, Tammy
Subject: HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.; 0570261-010-AC/PSD-FL-369B

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Owner/Company Name: HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.

Facility Name: HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.

Project Number: 0570261-010-AC/PSD-FL-369B

Permit Status: DRAFT

Permit Activity: CONSTRUCTION

Facility County: HILLSBOROUGH

Processor: TAMMY MCWADE - (850)488-1906

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Elizabeth Walker

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THINK AT THE SINK!

During this ongoing drought, every drop of water counts.

Learn how you can cut water use at <http://www.hillsboroughcounty.org/water/conserv>

Walker, Elizabeth (AIR)

From: Velasco, Robert [VelascoRA@cdm.com]
To: undisclosed-recipients
Sent: Tuesday, August 11, 2009 12:07 PM
Subject: Read: HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.; 0570261-010-AC/PSD-FL-369B

Your message

To: VelascoRA@cdm.com
Subject:

was read on 8/11/2009 12:07 PM.

Walker, Elizabeth (AIR)

From: Hoag, Glenn [GHoag@CovantaEnergy.com]
To: Walker, Elizabeth (AIR)
Sent: Tuesday, August 11, 2009 11:32 AM
Subject: Read: HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.; 0570261-010-AC/PSD-FL-369B

Your message

To: GHoag@CovantaEnergy.com
Subject:

was read on 8/11/2009 11:32 AM.

Walker, Elizabeth (AIR)

From: Exchange Administrator
Sent: Tuesday, August 11, 2009 11:00 AM
To: Walker, Elizabeth (AIR)
Subject: Delivery Status Notification (Relay)
Attachments: ATT790565.txt; HILLSBOROUGH CTY. RESOURCE RECOVERY FAC.; 0570261-010-AC/PSD-FL-369B

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boldissarb@hillsboroughcounty.org