



# 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

June 22, 2010

Sent by Electronic Mail- Received Receipt Requested

Mr. Glenn Ogborn  
Solid Waste Superintendent  
Bay County Utility Services  
Bay County Resource Recovery Facility  
3410 Transmitter Road  
Panama City, Florida 32404

Re: Project No. 0050031-012-AC  
Bay County Utility Services Department  
Bay County Resource Recovery Facility  
Minor Air Construction Permit  
Rerating Units 1 and 2

Dear Mr. Ogborn:

On February 1, 2010, you submitted an application requesting the rerating of Units 1 and 2 from 245 tons per day per unit throughput to 255 tons per day per unit throughput. This facility is located in Bay County at 6510 Bay Line Drive in Panama City, Florida. Enclosed are the following documents: the Technical Evaluation and Preliminary Determination; the Draft Permit and Appendices; the Written Notice of Intent to Issue Air Permit; and the Public Notice of Intent to Issue Air Permit. The Public Notice of Intent to Issue Air Permit is the actual notice that you must have published in the legal advertisement section of a newspaper of general circulation in the area affected by this project. This construction permit cannot be finalized until 14 days after that Notice is published. If you have any questions, please contact the Project Engineer, Bobby Bull, at 850/921-7744.

Sincerely,

A handwritten signature in black ink that reads "Trina L. Vielhauer". The signature is written in a cursive style and is positioned above a horizontal line.

Trina L. Vielhauer, Chief  
Bureau of Air Regulation

Enclosures

TLV/jfk/rlb

## WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

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

Bay County Utility Services  
Bay County Resource Recovery Facility  
3410 Transmitter Road  
Panama City, Florida 32404

Project No. 0050031-012-AC  
Minor Air Construction Permit  
Bay County, Florida

Bay County Resource Recovery Facility  
Rerating Units 1 and 2

*Authorized Representative:*

Mr. Glenn Ogborn, Solid Waste Superintendent

**Facility Location:** Bay County Utility Services Department operates the existing Bay County Resource Recovery Facility, which is located in Bay County at 6510 Bay Line Drive in Panama City, Florida.

**Project:** The applicant proposes to rerate Units 1 and 2 from 245 tons per day per unit throughput to 255 tons per day per unit throughput. Details of the project are provided in the application and the enclosed 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 of the Florida Administrative Code (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 Department of Environmental Protection's Bureau of Air Regulation, New Source Review Section in the Division of Air Resource Management. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida 32399. 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.

**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 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

## WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

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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 at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000 (Telephone: 850/245-2241). 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.

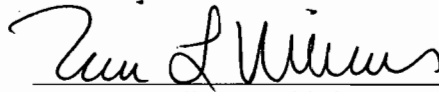
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Written Notice of Intent to Issue Air Permit. Persons whose substantial interests 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 proceeding, in accordance with the requirements set forth above.

**Mediation:** Mediation is not available in this proceeding.

**WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT**

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Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief  
Bureau of Air Regulation

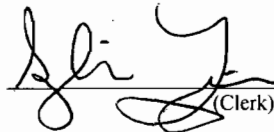
**CERTIFICATE OF SERVICE**

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) 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 6/22/10 to the persons listed below.

- Mr. Glenn Ogborn, Bay County Utility Services (gogborn@baycountyfl.gov)
- Mr. Richard Brookins, EnGen, LLC (brookins@engenllc.com)
- Mr. David A. Buff, P.E., Golder Associates, Inc. (dbuff@golder.com)
- Ms. Kathleen Forney, U.S. EPA, Region 4 (forney.kathleen@epamail.epa.gov)
- Ms. Heather Abrams, U.S. EPA, Region 4 (abrams.heather@epamail.epa.gov)
- Ms. Ana Oquendo, U.S. EPA, Region 4 (oquendo.ana@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)

6/22/10  
(Date)

## PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Florida Department of Environmental Protection  
Bureau of Air Regulation, Division of Air Resource Management  
Draft Minor Source Air Construction Permit, Project No. 0050031-012-AC  
Bay County Utility Services, Bay County Resource Recovery Facility  
Bay County, Florida

**Applicant:** The applicant for this project is Bay County Utility Services. The applicant's authorized representative and mailing address is: Mr. Glenn Ogborn, Solid Waste Superintendent, Bay County Utilities Services, Bay County Resource Recovery Facility, 3410 Transmitter Road, Panama City, FL 32404.

**Facility Location:** Bay County Utility Services operates the existing Bay County Resource Recovery Facility, which is located in Bay County at 6510 Bay Line Drive in Panama City, Florida.

**Project:** The applicant requests that municipal waste combustor Units 1 and 2 be rerated from 245 tons of solid waste per day per unit to the original throughput of 255 tons of solid waste per day per unit. The rerating will reclassify Units 1 and 2 as large municipal waste combustors subject to the federal New Source Performance Standards of Subpart Cb in Part 60, Title 40 of the Code of Federal Regulations, for Large Municipal Waste Combustors that were Constructed on or before September 20, 1994. This was confirmed through an applicability determination conducted by the Region 4 Office of the U.S. Environmental Protection Agency (EPA). The rationale behind EPA's determination is that the cost of the blades to achieve the rerating is well below the annual guideline repair allowance for resource recovery plants.

**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 of the Florida Administrative Code (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 Department of Environmental Protection's Bureau of Air Regulation in the Division of Air Resource Management. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32399-2400. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399. 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 Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for

(Public Notice to be Published in the Newspaper)

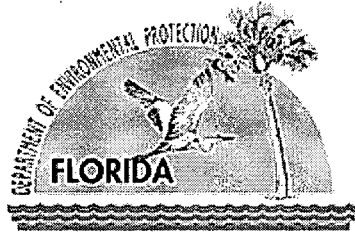
public inspection.

**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**

Bay County Utility Services  
3410 Transmitter Road  
Panama City, Florida 32404

Bay County Resource Recovery Facility  
Facility ID No. 0050031

**PROJECT**

Project No. 0050031-012-AC  
Application for Minor Source Air Construction Permit  
Municipal Solid Waste Combustor Units 1 and 2, Rerating Project

**COUNTY**

Bay County, 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, FL 32399-2400

June 22, 2010

## **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**

The Bay County Resource Recovery Facility is a waste-to-energy facility, which is categorized under Standard Industrial Classification Code No. 4953. The facility is located in Bay County at 6510 Bay Line Drive, Bay Industrial Park in Panama City, Florida. The UTM coordinates of the existing facility are Zone 16; 642.40 km East, and 3349.50 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 operates a unit subject to the New Source Performance Standards (NSPS) of Title 40 of the Code of Federal Regulations, Part 60 (40 CFR 60).

### **Project Description**

The applicant has requested that the Municipal Waste Combustors (MWC) Units 1 and 2 be rerated from 245 tons of solid waste per day per unit to the original permitted throughput of 255 tons of solid waste per day per unit. The rerating will reclassify Units 1 and 2 as large municipal waste combustors subject to the requirements of Subpart Cb in 40 CFR 60, for Large MWCs Constructed on or before September 20, 1994.

### **Processing Schedule**

02/01/2010	Received the application for a minor source air pollution construction permit.
03/29/2010	Requested additional information.



## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

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04/26/2010 Received additional information.

05/24/2010 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:

- 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<sub>x</sub>); sulfur dioxide (SO<sub>2</sub>); particulate matter (PM); particulate matter with a mean particle diameter of 10 microns or less (PM<sub>10</sub>); volatile organic compounds (VOC); lead (Pb); fluorides (F); sulfuric acid mist (SAM); hydrogen sulfide (H<sub>2</sub>S); total reduced sulfur (TRS), including H<sub>2</sub>S; reduced sulfur compounds, including H<sub>2</sub>S; 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 SO<sub>2</sub> 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 µg/m<sup>3</sup>, 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.

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

### PSD Applicability for Project

The applicant has requested that the MWC Units 1 and 2 be rerated to the original permitted throughput of 255 tons of solid waste per day per unit under PSD-FL-129 from the currently permitted 245 tons of solid waste per day per unit. Fan blade modifications are required to achieve the increased input volumes. As provided in the application, the following table summarizes potential emissions and PSD applicability for the project.

Table A. Potential Emissions (Tons/Year) and PSD Applicability

Pollutant	Projected Emissions Increases (TPY)	Significant Emissions Rate (TPY)	Subject To PSD?
CO	6.75	100	No
NO <sub>x</sub>	8.84	40	No
PM/PM <sub>10</sub>	0.52/0.35	25/15	No
SO <sub>2</sub>	0.37	40	No
VOC	0.28	40	No
SAM	0.015	7	No
Pb	0.00045	0.60	No
Hg	0.00019	0.10	No
F	0.0045	3	No
HCl	0.39	n/a	No
MWC/Acid Gases	9.47	40	No
Dioxin/Furan	5.51E-07	3.50E-06	No

The above emissions increases were developed based on information collected between 2005 and 2008, after completing the pollution control project prior to 2005. As shown in the above table, total project emissions will not exceed the PSD significant emissions rates; therefore, the project is not subject to PSD preconstruction review.

### 3. APPLICATION REVIEW

#### Federal NSPS Provisions

The rerating will reclassify Units 1 and 2 as large municipal waste combustors and subject them to the requirements of NSPS Subpart Cb in 40 CFR 60 for Large Municipal Waste Combustors that were Constructed on or before September 20, 1994. This determination was confirmed through an applicability determination conducted by the EPA Region 4 in an e-mail dated January 28, 2010 from Mr. Dave McNeal (EPA) to Mr. Bruce Mitchell (Department). The rationale behind EPA's decision to approve the proposed rerating is that the cost of the blades to achieve the rerating is well below the annual guideline repair allowance for resource recovery plants. Therefore, no capital expenditure is needed to achieve the increased capacity.

#### Conclusion

As previously mentioned, Units 1 and 2 are now subject to the requirements of NSPS Subpart Cb in 40 CFR 60, which establishes concentration-based emissions standards. The emissions standards of NSPS Subpart Cb are lower than the previous emissions standards specified in NSPS Subpart BBBB, established under construction permit 0050031-011-AC (PSD-FL-129D), except for the NO<sub>x</sub> standard. Concentration-based NO<sub>x</sub> emissions are not expected to increase because of the project; therefore, each unit will remain subject to the existing NO<sub>x</sub> emission limit of 170 parts per million by volume, dry, corrected to 7% oxygen, established in permit 0050031-011-AC (PSD-FL-129D). In addition, Rule 62-296.416, F.A.C. establishes a state mercury emission standard of

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

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70 µg/dscm, which is already specified in the Title V air operation permit. NSPS Subpart Cb in 40 CFR 60 specifies a more stringent mercury emission standard of 50 µg/dscm.

Table A-13 of the application provided stack gas flow rates for the facility from 1999 through 2008. The table shows an average stack gas flow rate of 25,158 dry standard cubic feet per minute (dscfm) corrected to 7% oxygen from 1999-2004. However, the average stack gas flow rate from 2005-2008 is 28,098 dscfm corrected to 7% oxygen. The applicant indicates that the increased stack gas flow rate could be attributed to the new induced draft fans as well as the relocation of oxygen monitors from downstream of the economizer to downstream of the boilers. This work was performed in association with the pollution control project permitted under Project No. 0050031-009-AC prior to 2005.

The application provided equivalent mass emission rates based on the standards in Subpart Cb and a requested average stack gas flow rate of 32,426 dscfm corrected to 7% oxygen. However, this value is 15% higher than the actual average stack gas flow rate for the units from 2005-2008. The unit rerate project represents only a 4% increase in waste throughput from 245 to 255 tons/day. Therefore, the draft permit includes the applicable concentration-based emissions standards from NSPS Subpart Cb in 40 CFR 60 and identifies the equivalent mass emission rates corresponding to a stack gas flow rate of 29,221 dscfm corrected to 7% oxygen, which is 4% higher than the actual stack gas flow rate from 2005-2008.

The applicant proposed new fan blades to achieve the rerating as well as providing improved energy efficiency during operation. The draft permit requires the installation of the new blades as part of this project, and the installation of the fan blades is required prior to operating at 255 tons per day per unit.

#### 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. Bobby Bull, P.E., is the project engineer responsible for reviewing the application and drafting the permit documents. Jeff Koerner, P.E., is the Air Permitting Supervisor responsible for reviewing and editing the proposed permit revision. 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 32399-2400.

# DRAFT PERMIT

## PERMITTEE

Bay County Utility Services Department  
3410 Transmitter Road  
Panama City, Florida 33404

Authorized Representative:  
Mr. Glenn Ogborn, Solid Waste Superintendent

Air Permit No. 0050031-012-AC  
Permit Expires: August 1, 2011  
Minor Air Construction Permit

Bay County Resource Recovery Facility  
Rerating of Units 1 and 2

## PROJECT

This is the final air construction permit, which authorizes the rerating of Units 1 and 2 from 245 tons per day (TPD) of waste throughput per unit to 255 TPD of waste throughput per unit. The Bay County Resource Recovery Facility (RRF) is a municipal waste processing facility categorized under Standard Industrial Classification No. 4953. The existing facility is located in Bay County at 6510 Bay Line Drive, Panama City, Florida. The UTM coordinates are Zone 16, 642.40 km East and 3349.50 km North.

This final permit is organized into the following sections: Section 1 (General Information), Section 2 (Permit Revisions), and Section 3 (Appendices). As noted in the Final Determination provided with this final permit, only minor changes and clarifications were made to the draft permit.

## 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.). This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C., for the Prevention of Significant Deterioration (PSD) of Air Quality. A copy of this permit modification shall be filed with the referenced permit and shall become part of the permit.

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000) and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida

(DRAFT)

\_\_\_\_\_  
Joseph Kahn, Director  
Division of Air Resource Management

\_\_\_\_\_  
(Date)

**DRAFT PERMIT**

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**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination and Final Permit) 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 \_\_\_\_\_ (DRAFT) \_\_\_\_\_ to the persons listed below.

- Mr. Glenn Ogborn, Bay County Utility Services (gogborn@baycountyfl.gov)
- Mr. Richard Brookins, EnGen, LLC (brookins@engenllc.com)
- Mr. David A. Buff, P.E., Golder Associates, Inc. (dbuff@golder.com)
- Ms. Kathleen Forney, U.S. EPA, Region 4 (forney.kathleen@epamail.epa.gov)
- Ms. Heather Abrams, U.S. EPA, Region 4 (abrams.heather@epamail.epa.gov)
- Ms. Ana Oquendo, U.S. EPA, Region 4 (oquendo.ana@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.

(DRAFT)

\_\_\_\_\_

(Clerk)

\_\_\_\_\_

(Date)

## SECTION 1. GENERAL INFORMATION (DRAFT)

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### FACILITY DESCRIPTION

The Bay County RRF began commercial operation on May 1, 1987. It currently converts a maximum of 490 tons per day of non-recycled solid waste into saleable energy. The facility includes two municipal waste combustors (MWC) that are both coupled to a common steam-electrical generator with a nameplate rating of 15 megawatts. The following control equipment is installed and operating: baghouse system; spray dryer absorber system including two lime slakers and a lime silo; and an activated carbon injection system with silo. Particulate matter emissions are controlled by the baghouse system. Mercury, other metals and dioxins/furans are controlled by the activated carbon injection with removal by the baghouse system. Sulfur dioxide, hydrochloric acid, sulfuric acid mist and fluoride emissions are controlled by the spray dryer absorber with lime slurry injection and baghouse collection.

### FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
- The facility operates no units subject to the acid rain provisions of the Clean Air Act.
- The facility operates units subject to the New Source Performance Standards (NSPS) of Title 40 of the Code of Federal Regulations, Part 60 (40 CFR 60).
- The facility operates no units subject to the National Emission Standards of Hazardous Air Pollutants (NESHAP) of Title 40 of the Code of Federal Regulations, Part 63 (40 CFR 63).
- The facility is a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

### PROPOSED PROJECT

This project authorizes the rerating of Units 1 and 2 from a maximum waste throughput of 245 to 255 TPD per unit. This change reclassifies the units from small MWC subject to the NSPS provisions in Subpart BBBB to large MWC subject to the emissions guidelines in Subpart Cb. The rerating requires the installation of new fan blades in each unit to achieve the higher throughput rate and provide increased energy efficiency.

## SECTION 2. ADMINISTRATIVE REQUIREMENTS (DRAFT)

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1. Permitting Authority: All documents related to applications for permits to construct, operate or modify emissions unit shall be submitted to the Bureau of Air Regulation, Florida Department of Environmental Protection (Department), at 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400. Copies of all such documents shall also be submitted to the Compliance Authority.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Air Resource Section of the Department's Northwest District Office. The mailing address is 160 Governmental Center, Suite 308, Pensacola, Florida, 32502-5794. The phone number is 850/595-8300.
3. Appendices: The following appendices are attached as part of this permit: Appendix A (Citation Formats and Glossary of Common Terms), Appendix B (General Conditions), Appendix C (Common Conditions), and Appendix D (Common Testing Requirements).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified 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, F.S., and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-214, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations. 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. [Rules 62-204.800, 62-210.300 and 62-210.900, F.A.C.]
5. Construction and Expiration: The Department may extend the expiration date upon a satisfactory showing that an extension is justified. Such a request shall be submitted to the Department's Bureau of Air Regulation at least 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(12), 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. 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. This permit authorizes construction of the referenced facilities. [Chapters 62-210 and 62-212, F.A.C.]
8. Title V Air Operation Permit: This permit authorizes the proposed work modifications to Units 1 and 2. A Title V Air 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 appropriate Permitting Authority with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213.420, F.A.C.]

## SECTION 2. EMISSIONS UNITS SPECIFIC CONDITIONS (DRAFT)

The specific conditions of this subsection apply to the following emissions units after the authorized work is completed.

EU ID	Emissions Unit Description
001	MWC Unit No. 1
002	MWC Unit No. 2

### EXISTING PERMITS

1. **Other Permits:** The capacity and limits in this permit, unless otherwise specified, supersede all previously established capacity and limits issued in air construction and operation permits for these emissions units. However, the permittee shall otherwise continue to comply with all applicable requirements in the current Title V air operation permit. [Rules 62-4.070(3) and 62-210.300 and Chapter 62-213, F.A.C.]

### ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

2. **Rerating Capacity:** The maximum charging rate of each municipal waste combustor (MWC) shall not exceed 255 tons of municipal solid waste (MSW) per day per unit, which is equivalent to a maximum heat input rate for each MWC of 96 MMBtu per hour assuming a heating value of 4,500 Btu per pound of waste. The steam flow rate from each unit shall not exceed 69,333 lb/hour (4-hour block average) and 68,000 lb/hour (24-hour rolling average). To determine compliance with the steam flow rates, a steam flow meter shall be calibrated, maintained and operated to measure steam flow in pounds per hour on a continuous basis and record the output of the monitor. Steam flow shall be calculated and recorded in 4-hour block and 24-hour rolling averages. Before operating at the rerated capacity, new fan blades shall be installed in each unit to achieve the higher throughput rate. [0050031-012-AC; Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; and 40 CFR 60.38b]

### EMISSION LIMITATIONS AND STANDARDS

*{Permitting Note: The emissions standards apply to each MWC unit. The equivalent mass emission rates are based on an estimated exhaust flow rate 29,221 dry standard cubic feet per minute corrected to 7% oxygen.}*

3. **Particulate Matter (PM):** As determined by EPA Method 5, the emission limit for PM contained in the gases discharged to the atmosphere from a designated facility is 25 milligrams per dry standard cubic meter, corrected to 7% oxygen (O<sub>2</sub>), based on the average of three test runs (equivalent to a mass emission rate of 2.74 lb/hour). [40 CFR 60.33b(a)(1)(i) and Rule 62-204.800(9)(b), F.A.C.]

4. **Visible Emissions (VE):** As determined by the continuous opacity monitoring system (COMS) or EPA Method 9, the emission limit for opacity exhibited by the gases discharged to the atmosphere from a designated facility is 10% (6-minute average). [40 CFR 60.33b(1)(iii) and Rule 62-204.800(9)(b), F.A.C.]

5. **Cadmium (Cd):** As determined by EPA Method 29, the emission limit for Cd contained in the gases discharged to the atmosphere from a designated facility is 35 micrograms per dry standard cubic meter, corrected to 7% O<sub>2</sub>, based on the average of three test runs (equivalent to a mass emission rate of 0.00383 lb/hour). [40 CFR 60.33b(a)(2)(i) and Rule 62-204.800(9)(b), F.A.C.]

6. **Mercury (Hg):** As determined by EPA Method 29, the emission limit for Hg contained in the gases discharged to the atmosphere from a designated facility is 50 micrograms per dry standard cubic meter or 15 percent of the potential mercury emission concentration (85-percent reduction by weight), corrected to 7% O<sub>2</sub>, whichever is less stringent and based on the average of three test runs (equivalent to a mass emission rate of 0.00547 lb/hour). [40 CFR 60.33b(a)(3) and Rule 62-204.800(9)(b), F.A.C.]

7. **Lead (Pb):** As determined by EPA Method 29, the emission limit for Pb contained in the gases discharged to the atmosphere from a designated facility is 400 micrograms per dry standard cubic meter, corrected to 7%



## SECTION 2. EMISSIONS UNITS SPECIFIC CONDITIONS (DRAFT)

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oxygen, based on the average of three test runs (equivalent to a mass emission rate of 0.0438 lb/hour). [40 CFR 60.33b(a)(4) and Rule 62-204.800(9)(b), F.A.C.]

8. **Sulfur Dioxide (SO<sub>2</sub>):** As determined by the continuous emissions monitoring system (CEMS), the emission limit for SO<sub>2</sub> contained in the gases discharged to the atmosphere from a designated facility is 29 parts per million by volume or 25% of the potential SO<sub>2</sub> emission concentration (75% reduction by weight or volume), corrected to 7% O<sub>2</sub> (dry basis), whichever is less stringent (equivalent to a mass emission rate of 8.44 lb/hour). Compliance with this emission limit is based on a 24-hour daily geometric mean. [40 CFR 60.33b(b)(3)(i) and Rule 62-204.800(9)(b), F.A.C.]

9. **Hydrogen Chloride (HCl):** As determined by EPA Method 26 or 26A, the emission limit for HCl contained in the gases discharged to the atmosphere from a designated facility is 29 parts per million by volume or 5% of the potential HCl emission concentration (95% reduction by weight or volume), corrected to 7% O<sub>2</sub> (dry basis), whichever is less stringent (equivalent to a mass emission rate of 4.81 lb/hour). [40 CFR 60.33b(b)(3)(ii) and Rule 62-204.800(9)(b), F.A.C.]

10. **Dioxin/Furan (D/F):** As determined by EPA Method 23, the emission limit for designated facilities that do not employ an electrostatic precipitator-based emission control system is 30 nanograms per dry standard cubic meter (total mass), corrected to 7 % O<sub>2</sub> (equivalent to a mass emission rate of 3.28 x 10<sup>-6</sup> lb/hour). [40 CFR 60.33b(c)(1)(iii) and Rule 62-204.800(9)(b), F.A.C.]

11. **Nitrogen Oxides (NO<sub>x</sub>):** As determined by the CEMS, the emission limit for NO<sub>x</sub> contained in the gases discharged to the atmosphere from a designated facility is 170 parts per million by volume, corrected to 7 % O<sub>2</sub> (dry basis), 24-hour daily average (equivalent to a mass emission rate of 35.57 lb/hour). [0050031-011-AC (PSD-FL-129D); and Rule 62-204.800(9)(b), F.A.C.]

*(Permitting Note: The above NO<sub>x</sub> emission limit was established under air construction Permit No. 0050031-011-AC (PSD-FL-129D). For that project, each unit was derated to 245 tons of MSW and became subject to NSPS Subpart BBBB, 40 CFR 60. This limit is more stringent than the NO<sub>x</sub> limit specified in NSPS Subpart Cb (210 parts per million by volume, corrected to 7 % O<sub>2</sub>). Therefore, each unit remains subject to the current NO<sub>x</sub> emissions limit established under air construction Permit No. 0050031-011-AC (PSD-FL-129D).)*

12. **Carbon Monoxide (CO):** As determined by the CEMS, the emission limit for CO contained in the gases discharged to the atmosphere from a designated facility is 250 parts per million by volume, corrected to 7 % O<sub>2</sub> (dry basis), 24-hour block average (equivalent to a mass emission rate of 31.83 lb/hour). [40 CFR 60.34b(a), Table 3, Mass Burn Rotary Waterwall; and Rule 62-204.800(9)(b), F.A.C.]

13. **Fugitive Ash Emissions:** Fugitive ash emissions from each MWC shall be at least as protective as those requirements listed in 40 CFR 60.55b of NSPS Subpart Eb. [40 CFR 60.36b]

### REPORTING AND RECORDKEEPING REQUIREMENTS

14. **Annual Operating Report:** The permittee shall submit an annual report that summarizes the actual operating hours and emissions from this facility in accordance with Rule 62-210.370, F.A.C. Annual operating reports shall be submitted to the Compliance Authority by April 1<sup>st</sup> of each year. [Rule 62-210.370(3), F.A.C.]

15. **Initial Compliance Demonstration:** Initial compliance tests shall be conducted within 60 days after achieving the maximum production rate at which each unit will be operated, but not later than 180 days after the initial startup. In accordance with the test methods specified in this permit, each unit's exhaust stack shall be tested to demonstrate compliance with the emission limits for PM, Cd, D/F, Pb, Hg, and HCl. For each test run, CO, SO<sub>2</sub> and NO<sub>x</sub> emissions recorded by the required CEMS and visible emissions recorded by the required COMS shall be reported.

## SECTION 2. EMISSIONS UNITS SPECIFIC CONDITIONS (DRAFT)

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The permittee may use the most recent satisfactory stack test if the tests were conducted at 90% of the new permit capacity to meet the initial testing requirement.

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

### 16. Annual Compliance and Performance Testing:

- a. Performance testing methods shall be as listed in 40 CFR 60.58b of NSPS Subpart Eb, as applicable, except as provided for under 40 CFR 60.24(b)(2) of NSPS Subpart B and paragraphs (b) and (c) of this section. Annual testing (within 12 months from the previous year's annual test) is required for particulate matter, cadmium, lead, mercury, hydrogen chloride, and dioxin/furans.
- b. The alternative performance testing schedule for dioxins/furans specified in 40 CFR 60.58b(g)(5)(iii) of NSPS Subpart Eb, as applicable, is allowed for those designated facilities that achieve a dioxin/furan emission level less than or equal to 15 nanograms per dry standard cubic meter total mass, corrected to 7 percent oxygen.
- c. Reserved.

[Rules 62-210.200(Definitions) and 62-210.370(3), F.A.C. and 40 CFR 60.38b]

17. CEMS Annual Emissions Requirement: The owner or operator shall use data from the NO<sub>x</sub>, SO<sub>2</sub> and CO CEMS when calculating annual emissions for purposes of computing actual emissions, baseline actual emissions, and net emissions increase, as defined at Rule 62-210.200, F.A.C., and for purposes of computing emissions pursuant to the reporting requirements of Rule 62-210.370(3), F.A.C., Annual Operating Report. In computing the emissions of a pollutant, the owner or operator shall account for the emissions during periods of startup and shutdown of each emissions unit. [Rules 62-210.200(Definitions) and 62-210.370(3), F.A.C.]

18. Actual Emissions Reporting: This permit is based on an analysis that compared projected actual emissions with baseline actual emissions and avoided the requirements of subsection 62-212.400(4) through (12), F.A.C. for several pollutants. For the first ten years after completing the authorized work on Units 1 and 2, the permittee shall submit an annual report. Therefore, pursuant to Rule 62-212.300(1)(e), F.A.C., the permittee is subject to the following monitoring, reporting and recordkeeping provisions.

- a. The permittee shall monitor the emissions of any PSD pollutant that the Department identifies could increase as a result of the construction or modification and that is emitted by any emissions unit that could be affected; and, using the most reliable information available, calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 10 years following resumption of regular operations after the change. Emissions shall be computed in accordance with the provisions in Rule 62-210.370, F.A.C.
- b. The permittee shall report to the Department within 60 days after the end of each calendar year during the 10-year period setting out each unit's annual emissions during the calendar year that preceded submission of the report. The report shall contain the following:
  - 1) The name, address and telephone number of the owner or operator of the major stationary source;
  - 2) The annual emissions as calculated pursuant to the provisions of Rule 62-210.370, F.A.C.;
  - 3) If the emissions differ from the preconstruction projection, an explanation as to why there is a difference; and
  - 4) Any other information that the owner or operator wishes to include in the report.
- c. The information required to be documented and maintained pursuant to Rules 62-212.300(1)(e)1. and 2., F.A.C., shall be submitted to the Department, which shall make it available for review to the general public.

## SECTION 2. EMISSIONS UNITS SPECIFIC CONDITIONS (DRAFT)

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- d. The permittee shall monitor and report for the following PSD Pollutants: CO, NO<sub>x</sub>, SO<sub>2</sub>, PM/PM<sub>10</sub>, Pb, Hg, D/F and municipal waste combustor acid gases (measured as SO<sub>2</sub> and HCl).

See Appendix C for emissions computation and reporting requirements.

[Application 0050031-012-AC; and Rules 62-212.300(1)(e) and 62-210.370, F.A.C.]

19. Notification of Construction and Completion of Construction: The permittee shall notify the Permitting and Compliance Authorities upon starting of construction for each unit. After completion of construction, the P.E. of Record shall submit a report detailing the changes made during construction to achieve the rerating of each unit. Installation of the new fan blades is required prior to operating at the higher throughput rate. [Rule 62-4.070(3), F.A.C.]

### **OPERATING PRACTICES, TRAINING AND CERTIFICATION**

20. Operating Practices: Operating practices of each MWC shall be at least as protective as those requirements listed in 40 CFR 60.53(b) and (c) of NSPS Subpart Eb. [40 CFR 60.34b(b)]

21. Operator Training and Certification: Operator training and certification for the each MWC shall be at least as protective as those requirements listed in 40 CFR 60.54b of NSPS Subpart Eb. Compliance with these requirements shall be in accordance with the schedule specified in 40 CFR 60.39b(c)(4). [40 CFR 60.35b]

### **SECTION 3. APPENDICES (DRAFT)**

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#### **Contents**

- Appendix A. Citation Formats and Glossary of Common Terms
- Appendix B. General Conditions
- Appendix C. Common Conditions
- Appendix D. Common Testing Requirements

## SECTION 3. APPENDIX A (DRAFT)

### Citation Formats and Glossary of Common Terms

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#### CITATION FORMATS

The following illustrate the formats used in the permit to identify applicable requirements from permits and regulations.

##### Old Permit Numbers

Example: Permit No. AC50-123456 or Permit No. AO50-123456

Where: “AC” identifies the permit as an Air Construction Permit  
“AO” identifies the permit as an Air Operation Permit  
“123456” identifies the specific permit project number

##### New Permit Numbers

Example: Permit Nos. 099-2222-001-AC, 099-2222-001-AF, 099-2222-001-AO, or 099-2222-001-AV

Where: “099” represents the specific county ID number in which the project is located  
“2222” represents the specific facility ID number for that county  
“001” identifies the specific permit project number  
“AC” identifies the permit as an air construction permit  
“AF” identifies the permit as a minor source federally enforceable state operation permit  
“AO” identifies the permit as a minor source air operation permit  
“AV” identifies the permit as a major Title V air operation permit

##### PSD Permit Numbers

Example: Permit No. PSD-FL-317

Where: “PSD” means issued pursuant to the preconstruction review requirements of the Prevention of Significant Deterioration of Air Quality  
“FL” means that the permit was issued by the State of Florida  
“317” identifies the specific permit project number

##### Florida Administrative Code (F.A.C.)

Example: [Rule 62-213.205, F.A.C.]

Means: Title 62, Chapter 213, Rule 205 of the Florida Administrative Code

##### Code of Federal Regulations (CFR)

Example: [40 CFR 60.7]

Means: Title 40, Part 60, Section 7

#### GLOSSARY OF COMMON TERMS

° F: degrees Fahrenheit

AAQS: Ambient Air Quality Standard

acf: actual cubic feet

acfm: actual cubic feet per minute

ARMS: Air Resource Management System (DEP database)

### SECTION 3. APPENDIX A (DRAFT)

#### Citation Formats and Glossary of Common Terms

<b>BACT:</b> best available control technology	<b>ID.:</b> induced draft
<b>bhp:</b> brake horsepower	<b>ID:</b> identification
<b>Btu:</b> British thermal units	<b>kPa:</b> kilopascals
<b>CAM:</b> compliance assurance monitoring	<b>lb:</b> pound
<b>CEMS:</b> continuous emissions monitoring system	<b>MACT:</b> maximum achievable technology
<b>cfm:</b> cubic feet per minute	<b>MMBtu:</b> million British thermal units
<b>CFR:</b> Code of Federal Regulations	<b>MSDS:</b> material safety data sheets
<b>CAA:</b> Clean Air Act	<b>MW:</b> megawatt
<b>CMS:</b> continuous monitoring system	<b>NESHAP:</b> National Emissions Standards for Hazardous Air Pollutants
<b>CO:</b> carbon monoxide	<b>NO<sub>x</sub>:</b> nitrogen oxides
<b>CO<sub>2</sub>:</b> carbon dioxide	<b>NSPS:</b> New Source Performance Standards
<b>COMS:</b> continuous opacity monitoring system	<b>O&amp;M:</b> operation and maintenance
<b>DARM:</b> Division of Air Resource Management	<b>O<sub>2</sub>:</b> oxygen
<b>DEP:</b> Department of Environmental Protection	<b>Pb:</b> lead
<b>Department:</b> Department of Environmental Protection	<b>PM:</b> particulate matter
<b>dscf:</b> dry standard cubic feet	<b>PM<sub>10</sub>:</b> particulate matter with a mean aerodynamic diameter of 10 microns or less
<b>dscfm:</b> dry standard cubic feet per minute	<b>ppm:</b> parts per million
<b>EPA:</b> Environmental Protection Agency	<b>ppmv:</b> parts per million by volume
<b>ESP:</b> electrostatic precipitator (control system for reducing particulate matter)	<b>ppmvd:</b> parts per million by volume, dry basis
<b>EU:</b> emissions unit	<b>QA:</b> quality assurance
<b>F.A.C.:</b> Florida Administrative Code	<b>QC:</b> quality control
<b>F.A.W.:</b> Florida Administrative Weekly	<b>PSD:</b> prevention of significant deterioration
<b>F.D.:</b> forced draft	<b>psi:</b> pounds per square inch
<b>F.S.:</b> Florida Statutes	<b>PTE:</b> potential to emit
<b>FGD:</b> flue gas desulfurization	<b>RACT:</b> reasonably available control technology
<b>FGR:</b> flue gas recirculation	<b>RATA:</b> relative accuracy test audit
<b>Fl:</b> fluoride	<b>RBLC:</b> EPA's RACT/BACT/LAER Clearinghouse
<b>ft<sup>2</sup>:</b> square feet	<b>SAM:</b> sulfuric acid mist
<b>ft<sup>3</sup>:</b> cubic feet	<b>scf:</b> standard cubic feet
<b>gpm:</b> gallons per minute	<b>scfm:</b> standard cubic feet per minute
<b>gr:</b> grains	<b>SIC:</b> standard industrial classification code
<b>HAP:</b> hazardous air pollutant	<b>SIP:</b> State Implementation Plan
<b>Hg:</b> mercury	

**SECTION 3. APPENDIX A (DRAFT)**

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**Citation Formats and Glossary of Common Terms**

**SNCR:** selective non-catalytic reduction (control system used for reducing emissions of nitrogen oxides)

**SO<sub>2</sub>:** sulfur dioxide

**TPD:** tons/day

**TPH:** tons per hour

**TPY:** tons per year

**TRS:** total reduced sulfur

**UTM:** Universal Transverse Mercator coordinate system

**VE:** visible emissions

**VOC:** volatile organic compounds

## SECTION 3. APPENDIX B (DRAFT)

### 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 403.141, 403.727, or 403.859 through 403.861, F.S. 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 403.987(6) and 403.722(5), F.S., 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 of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and 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 and 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 reasonable times, access to the premises where the permitted activity is located or conducted to:
  - a. Have access to and copy any records that must be kept under 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 noncompliance; and
  - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which



### SECTION 3. APPENDIX B (DRAFT)

#### General Conditions

may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

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 403.111 and 403.73, F.S. 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. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
11. This permit is transferable only upon Department approval in accordance with 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 (not applicable);
  - b. Determination of Prevention of Significant Deterioration (not applicable); and
  - c. Compliance with New Source Performance Standards (applicable).
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 for 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:
    - (a) The date, exact place, and time of sampling or measurements;
    - (b) The person responsible for performing the sampling or measurements;
    - (c) The dates analyses were performed;
    - (d) The person responsible for performing the analyses;
    - (e) The analytical techniques or methods used;
    - (f) The results of such analyses.

**SECTION 3. APPENDIX B (DRAFT)**

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**General Conditions**

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 the 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 3. APPENDIX C (DRAFT)

### Common Conditions

Unless otherwise specified in the permit, the following conditions apply to all emissions units and activities at the 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 2 hours in any 24-hour period unless specifically authorized by the Department for longer duration. Pursuant to Rule 62-210.700(5), F.A.C., the permit subsection may specify more or less stringent requirements for periods of excess emissions. Rule 62-210-700(Excess Emissions), F.A.C., cannot vary or supersede any federal NSPS or NESHAP provision. [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 Compliance Authority 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 (VOC) or organic solvents (OS) 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(Definitions), 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% opacity. This regulation does not impose a specific testing requirement. [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.]

#### RECORDS AND REPORTS

## SECTION 3. APPENDIX C (DRAFT)

### Common Conditions

10. 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 5 years following the date on which such measurements, records, or data are recorded. Records shall be made available to the Department upon request. [Rule 62-213.440(1)(b)2, F.A.C.]
11. Emissions Computation and Reporting:
- a. *Applicability*. This rule sets forth required methodologies to be used by the owner or operator of a facility for computing actual emissions, baseline actual emissions, and net emissions increase, as defined at Rule 62-210.200, F.A.C., and for computing emissions for purposes of the reporting requirements of subsection 62-210.370(3) and paragraph 62-212.300(1)(e), F.A.C., or of any permit condition that requires emissions be computed in accordance with this rule. This rule is not intended to establish methodologies for determining compliance with the emission limitations of any air permit. [Rule 62-210.370(1), F.A.C.]
  - b. *Computation of Emissions*. For any of the purposes set forth in subsection 62-210.370(1), F.A.C., the owner or operator of a facility shall compute emissions in accordance with the requirements set forth in this subsection.
    - (1) *Basic Approach*. The owner or operator shall employ, on a pollutant-specific basis, the most accurate of the approaches set forth below to compute the emissions of a pollutant from an emissions unit; provided, however, that nothing in this rule shall be construed to require installation and operation of any continuous emissions monitoring system (CEMS), continuous parameter monitoring system (CPMS), or predictive emissions monitoring system (PEMS) not otherwise required by rule or permit, nor shall anything in this rule be construed to require performance of any stack testing not otherwise required by rule or permit.
      - (a) If the emissions unit is equipped with a CEMS meeting the requirements of paragraph 62-210.370(2)(b), F.A.C., the owner or operator shall use such CEMS to compute the emissions of the pollutant, unless the owner or operator demonstrates to the department that an alternative approach is more accurate because the CEMS represents still-emerging technology.
      - (b) If a CEMS is not available or does not meet the requirements of paragraph 62-210.370(2)(b), F.A.C., but emissions of the pollutant can be computed pursuant to the mass balance methodology of paragraph 62-210.370(2)(c), F.A.C., the owner or operator shall use such methodology, unless the owner or operator demonstrates to the department that an alternative approach is more accurate.
      - (c) If a CEMS is not available or does not meet the requirements of paragraph 62-210.370(2)(b), F.A.C., and emissions cannot be computed pursuant to the mass balance methodology, the owner or operator shall use an emission factor meeting the requirements of paragraph 62-210.370(2)(d), F.A.C., unless the owner or operator demonstrates to the department that an alternative approach is more accurate.
    - (2) *Continuous Emissions Monitoring System (CEMS)*.
      - (a) An owner or operator may use a CEMS to compute emissions of a pollutant for purposes of this rule provided:
        - 1) The CEMS complies with the applicable certification and quality assurance requirements of 40 CFR Part 60, Appendices B and F, or, for an acid rain unit, the certification and quality assurance requirements of 40 CFR Part 75, all adopted by reference at Rule 62-204.800, F.A.C.; or

## SECTION 3. APPENDIX C (DRAFT)

### Common Conditions

- 2) The owner or operator demonstrates that the CEMS otherwise represents the most accurate means of computing emissions for purposes of this rule.
- (b) Stack gas volumetric flow rates used with the CEMS to compute emissions shall be obtained by the most accurate of the following methods as demonstrated by the owner or operator:
- 1) A calibrated flow meter that records data on a continuous basis, if available; or
  - 2) The average flow rate of all valid stack tests conducted during a five-year period encompassing the period over which the emissions are being computed, provided all stack tests used shall represent the same operational and physical configuration of the unit.
- (c) The owner or operator may use CEMS data in combination with an appropriate f-factor, heat input data, and any other necessary parameters to compute emissions if such method is demonstrated by the owner or operator to be more accurate than using a stack gas volumetric flow rate as set forth at subparagraph 62-210.370(2)(b)2., F.A.C., above.
- (3) Mass Balance Calculations.
- (a) An owner or operator may use mass balance calculations to compute emissions of a pollutant for purposes of this rule provided the owner or operator:
- 1) Demonstrates a means of validating the content of the pollutant that is contained in or created by all materials or fuels used in or at the emissions unit; and
  - 2) Assumes that the emissions unit emits all of the pollutant that is contained in or created by any material or fuel used in or at the emissions unit if it cannot otherwise be accounted for in the process or in the capture and destruction of the pollutant by the unit's air pollution control equipment.
- (b) Where the vendor of a raw material or fuel which is used in or at the emissions unit publishes a range of pollutant content from such material or fuel, the owner or operator shall use the highest value of the range to compute the emissions, unless the owner or operator demonstrates using site-specific data that another content within the range is more accurate.
- (c) In the case of an emissions unit using coatings or solvents, the owner or operator shall document, through purchase receipts, records and sales receipts, the beginning and ending VOC inventories, the amount of VOC purchased during the computational period, and the amount of VOC disposed of in the liquid phase during such period.
- (4) Emission Factors.
- a. An owner or operator may use an emission factor to compute emissions of a pollutant for purposes of this rule provided the emission factor is based on site-specific data such as stack test data, where available, unless the owner or operator demonstrates to the department that an alternative emission factor is more accurate. An owner or operator using site-specific data to derive an emission factor, or set of factors, shall meet the following requirements.
- 1) If stack test data are used, the emission factor shall be based on the average emissions per unit of input, output, or gas volume, whichever is appropriate, of all valid stack tests conducted during at least a five-year period encompassing the period over which the emissions are being computed, provided all stack tests used shall represent the same operational and physical configuration of the unit.
  - 2) Multiple emission factors shall be used as necessary to account for variations in

### SECTION 3. APPENDIX C (DRAFT)

#### Common Conditions

emission rate associated with variations in the emissions unit's operating rate or operating conditions during the period over which emissions are computed.

- 3) The owner or operator shall compute emissions by multiplying the appropriate emission factor by the appropriate input, output or gas volume value for the period over which the emissions are computed. The owner or operator shall not compute emissions by converting an emission factor to pounds per hour and then multiplying by hours of operation, unless the owner or operator demonstrates that such computation is the most accurate method available.
- b. If site-specific data are not available to derive an emission factor, the owner or operator may use a published emission factor directly applicable to the process for which emissions are computed. If no directly-applicable emission factor is available, the owner or operator may use a factor based on a similar, but different, process.
- (5) Accounting for Emissions During Periods of Missing Data from CEMS, PEMS, or CPMS. In computing the emissions of a pollutant, the owner or operator shall account for the emissions during periods of missing data from CEMS, PEMS, or CPMS using other site-specific data to generate a reasonable estimate of such emissions.
- (6) Accounting for Emissions During Periods of Startup and Shutdown. In computing the emissions of a pollutant, the owner or operator shall account for the emissions during periods of startup and shutdown of the emissions unit.
- (7) Fugitive Emissions. In computing the emissions of a pollutant from a facility or emissions unit, the owner or operator shall account for the fugitive emissions of the pollutant, to the extent quantifiable, associated with such facility or emissions unit.
- (8) Recordkeeping. The owner or operator shall retain a copy of all records used to compute emissions pursuant to this rule for a period of five years from the date on which such emissions information is submitted to the department for any regulatory purpose.

[Rule 62-210.370(2), F.A.C.]

c. *Annual Operating Report for Air Pollutant Emitting Facility*

- (1) The Annual Operating Report for Air Pollutant Emitting Facility (DEP Form No. 62-210.900(5)) shall be completed each year for the following facilities:
  - a. All Title V sources.
  - b. All synthetic non-Title V sources.
  - c. All facilities with the potential to emit ten (10) tons per year or more of volatile organic compounds or twenty-five (25) tons per year or more of nitrogen oxides and located in an ozone nonattainment area or ozone air quality maintenance area.
  - d. All facilities for which an annual operating report is required by rule or permit.
- (2) Notwithstanding paragraph 62-210.370(3)(a), F.A.C., no annual operating report shall be required for any facility operating under an air general permit.
- (3) The annual operating report shall be submitted to the appropriate Department of Environmental Protection (DEP) division, district or DEP-approved local air pollution control program office by April 1 of the following year, except that the annual operating report for year 2008 shall be submitted by May 1, 2009. If the report is submitted using the Department's electronic annual

**SECTION 3. APPENDIX C (DRAFT)**

**Common Conditions**

operating report software, there is no requirement to submit a copy to any DEP or local air program office.

- (4) Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C., for purposes of the annual operating report.
- (5) Facility Relocation. Unless otherwise provided by rule or more stringent permit condition, the owner or operator of a relocatable facility must submit a Facility Relocation Notification Form (DEP Form No. 62-210.900(6)) to the Department at least 30 days prior to the relocation. A separate form shall be submitted for each facility in the case of the relocation of multiple facilities which are jointly owned or operated.

[Rule 62-210.370(3), F.A.C.]

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**SECTION 3. APPENDIX D (DRAFT)**

**Common Testing Requirements**

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Unless otherwise specified in the permit, the following testing requirements apply to all emissions units at the facility.

**COMPLIANCE TESTING REQUIREMENTS**

1. Operating Rate During Testing: Testing of emissions shall be conducted with the emissions unit operating at permitted capacity. 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. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. [Rule 62-297.310(2), F.A.C.]
2. Applicable Test Procedures - Opacity Compliance Tests: When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:
  - a. For batch, cyclical processes, or other operations which are normally completed within less than the minimum observation period and do not recur within that time, the period of observation shall be equal to the duration of the batch cycle or operation completion time.
  - b. The observation period for special opacity tests that are conducted to provide data to establish a surrogate standard pursuant to Rule 62-297.310(5)(k), F.A.C., Waiver of Compliance Test Requirements, shall be established as necessary to properly establish the relationship between a proposed surrogate standard and an existing mass emission limiting standard.
  - c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.

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

3. Determination of Process Variables:
  - a. *Required Equipment*. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.
  - b. *Accuracy of Equipment*. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

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

4. Frequency of Compliance Tests: The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.
  - a. *General Compliance Testing*.
    1. The owner or operator of a new or modified emissions unit that is subject to an emission limiting



## SECTION 3. APPENDIX D (DRAFT)

### Common Testing Requirements

standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining an operation permit for such emissions unit.

2. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to sub-subparagraph 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:
  - (a) Did not operate; or
  - (b) In the case of a fuel burning emissions unit, burned liquid and/or solid fuel for a total of no more than 400 hours,
3. During each federal fiscal year (October 1 – September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for visible emissions, if there is an applicable standard.
4. 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.
- b. *Special Compliance Tests.* When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it 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), F.A.C.]

### RECORDS AND REPORTS

5. 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 shall provide the following information.
  - a. The type, location, and designation of the emissions unit tested.
  - b. The facility at which the emissions unit is located.
  - c. The owner or operator of the emissions unit.
  - d. 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.
  - e. 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.
  - f. The date, starting time and end time of the observation.
  - g. The test procedures used.

**SECTION 3. APPENDIX D (DRAFT)**

**Common Testing Requirements**

- h. The names of individuals who furnished the process variable data, conducted the test, and prepared the report.
- i. 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.
- j. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. 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.]

## Livingston, Sylvia

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**From:** Livingston, Sylvia  
**Sent:** Tuesday, June 22, 2010 2:45 PM  
**To:** gogborn@baycountyfl.gov  
**Cc:** brookins@engenllc.com; dbuff@golder.com; forney.kathleen@epamail.epa.gov; abrams.heather@epamail.epa.gov; oquendo.ana@epa.gov; victoria.gibson@dep.state.fl.us; robert.bull@dep.state.fl.us; jeff.koerner@dep.state.fl.us; elizabeth.walker@dep.state.fl.us  
**Subject:** Bay County Resource Recovery Facility; 0050031-012-AC  
**Attachments:** 0050031-012-AC\_Intent.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/0050031.012.AC.D\\_pdf.zip](http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0050031.012.AC.D_pdf.zip)

**Owner/Company Name:** BAY COUNTY BOARD OF COUNTY COMMISSIONERS

**Facility Name:** BAY COUNTY WASTE-TO-ENERGY FACILITY

**Project Number:** 0050031-012-AC

**Permit Status:** DRAFT

**Permit Activity:** CONSTRUCTION

**Facility County:** BAY

**Processor:** Robert Bull

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>.

Permit project documents addressed in this email may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible, and verify that they are accessible. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record. If you have any problems opening the documents or would like further information, please contact the Florida Department of Environmental Protection, Bureau of Air Regulation

Sylvia Livingston  
Bureau of Air Regulation  
Division of Air Resource Management (DARM)  
850/921-9506  
[sylvia.livingston@dep.state.fl.us](mailto:sylvia.livingston@dep.state.fl.us)

Note: The attached document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site: <http://www.adobe.com/products/acrobat/readstep.html>.

## Livingston, Sylvia

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**From:** Glenn Ogborn [gogborn@baycountyfl.gov]  
**Sent:** Tuesday, June 22, 2010 3:34 PM  
**To:** Livingston, Sylvia  
**Subject:** RE: Bay County Resource Recovery Facility; 0050031-012-AC

---

**From:** Livingston, Sylvia [Sylvia.Livingston@dep.state.fl.us]  
**Sent:** Tuesday, June 22, 2010 1:44 PM  
**To:** Glenn Ogborn  
**Cc:** brookins@engenllc.com; dbuff@golder.com; forney.kathleen@epamail.epa.gov; abrams.heather@epamail.epa.gov; oquendo.ana@epa.gov; Gibson, Victoria; Bull, Robert; Koerner, Jeff; Walker, Elizabeth (AIR)  
**Subject:** Bay County Resource Recovery Facility; 0050031-012-AC

Dear Sir/ Madam:

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[http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf\\_permit\\_zip\\_files/0050031.012.AC.D\\_pdf.zip](http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0050031.012.AC.D_pdf.zip)

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**Facility Name:** BAY COUNTY WASTE-TO-ENERGY FACILITY

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Permit project documents are addressed in this email may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible, and verify that they are accessible. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record. If you have any problems opening the documents or would like further information, please contact the Florida Department of Environmental Protection, Bureau of Air Regulation

Sylvia Livingston  
Bureau of Air Regulation  
Division of Air Resource Management (DARM)  
850/921-9506  
[sylvia.livingston@dep.state.fl.us](mailto:sylvia.livingston@dep.state.fl.us)

## Livingston, Sylvia

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**From:** Livingston, Sylvia  
**Sent:** Wednesday, June 23, 2010 8:41 AM  
**To:** 'brookinsr@engenllc.com'  
**Subject:** FW: Bay County Resource Recovery Facility; 0050031-012-AC  
**Attachments:** 0050031-012-AC\_Intent.pdf

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**From:** Livingston, Sylvia  
**Sent:** Tuesday, June 22, 2010 2:45 PM  
**To:** gogborn@baycountyfl.gov  
**Cc:** brookins@engenllc.com; dbuff@golder.com; forney.kathleen@epamail.epa.gov; abrams.heather@epamail.epa.gov; oquendo.ana@epa.gov; victoria.gibson@dep.state.fl.us; robert.bull@dep.state.fl.us; jeff.koerner@dep.state.fl.us; elizabeth.walker@dep.state.fl.us  
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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/0050031.012.AC.D\\_pdf.zip](http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0050031.012.AC.D_pdf.zip)

**Owner/Company Name:** BAY COUNTY BOARD OF COUNTY COMMISSIONERS  
**Facility Name:** BAY COUNTY WASTE-TO-ENERGY FACILITY  
**Project Number:** 0050031-012-AC  
**Permit Status:** DRAFT  
**Permit Activity:** CONSTRUCTION  
**Facility County:** BAY  
**Processor:** Robert Bull

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>.

Permit project documents addressed in this email may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible, and verify that they are accessible. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record. If you have any problems opening the documents or would like further information, please contact the Florida Department of Environmental Protection, Bureau of Air Regulation

Sylvia Livingston  
Bureau of Air Regulation

## Livingston, Sylvania

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**From:** Richard Brookins [BROOKINSR@engenllc.com]  
**Sent:** Wednesday, June 23, 2010 8:38 AM  
**To:** Livingston, Sylvania  
**Subject:** Bay County Resource Recovery Facility; 0050031-012-AC

Sylvania,

Please change my email address to [brookinsr@engenllc.com](mailto:brookinsr@engenllc.com).

Thank you,

Richard S. Brookins Jr.

### **ENGEN LLC**

Bay County Waste to Energy Facility  
Plant Engineer/HS&E Manager  
6510 Bay Line Drive  
Panama City, FL 32404  
850-747-5760 ext 203 850-819-7836 cell  
850-747-5768 fax  
[brookinsr@engenllc.com](mailto:brookinsr@engenllc.com)

Florida Department of  
Environmental Protection

Memorandum

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To: Trina Vielhauer, Bureau of Air Regulation  
Through: Jeff Koerner, New Source Review Section  
From: Bobby Bull, New Source Review Section  
Date: June 22, 2010  
Subject: Draft Minor Source Air Construction Permit  
Project No. 0050031-012-AC  
Bay County Resource Recovery Facility  
Rerating of Units 1 and 2

Attached for your review is a draft minor air construction permit package for the existing resource recovery facility, which is located in Bay County at 6510 Bay Line Drive, Panama City, Florida. Briefly, the draft permit authorizes the rerating of Units 1 and 2 to allow an increase in the throughput rate from 245 tons per day (TPD) per unit to 255 TPD per unit. This change reclassifies the units from small municipal waste combustors (MWC) to large MWC, which makes the units subject to the applicable NSPS requirements of 40 CFR 60, Subpart Cb, Emissions Guidelines and Compliance Times for Large MWC that are Constructed on or before September 20, 1994 (E-mail dated January 28, 2010 from Mr. David McNeal, EPA Region 4 to Bruce Mitchell).

The attached Technical Evaluation and Preliminary Determination provides a detailed description of the project and the rationale for permit issuance. The project is considered a new source review reform project. Day 90 of the permitting time clock is July 25, 2010. I recommend your approval of the attached draft permit package.

Attachments

TLV/jfk/rlb

**P.E. CERTIFICATION STATEMENT**

**PERMITTEE**

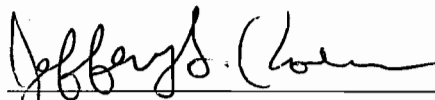
Bay County Utility Services Department  
3410 Transmitter Road  
Panama City, FL 32404

Project No. 0050031-012-AC  
Bay Co. Resource Recovery Facility  
Minor Source Air Construction Permit  
Rerating Units 1 and 2  
Bay County, Florida


**PROJECT DESCRIPTION**

The applicant has requested that the municipal waste combustors (MWC) Units 1 and 2 be rerated from 245 tons of solid waste per day per unit to the original permitted throughput of 255 tons of solid waste per day per unit. The rerating will reclassify Units 1 and 2 as large MWCs and subject them to the regulations pursuant to the NSPS, 40 CFR 60, Subpart Cb, Large Municipal Waste Combustors that were Constructed on or before September 20, 1994. The total project emissions will not exceed the PSD significant emissions rates; therefore, the project is not subject to PSD preconstruction review. Installation of new fan blades for both units 1 and 2 are required prior to operating at the increased throughput rate.

*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 any other aspects of the proposal (including, but not limited to, the electrical, mechanical, structural, hydrological, geological, and meteorological features).*



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



6-17-10

(Date)