



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

November 6, 1989

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. David S. Beachler  
Westinghouse RESD  
2400 Ardmore Boulevard  
Pittsburgh, Pennsylvania 15221

129

Dear Mr. Beachler:

Re: Permit Modification for Bay County Waste-to-Energy Facility  
Nos: AC 03-145061, -152196, and PSD-FL-129

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed modified permit for the above facility located in Panama City, Bay County, Florida.

Please submit any written comments you wish to have considered concerning the Department's proposed action to Mr. Bill Thomas of the Bureau of Air Regulation.

Sincerely,

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

CHF/pr

Attachments

cc: E. Middleswart, NW District  
T. Moody, NW District  
W. Aronson, EPA  
C. Shaver, NPS  
C. Speicher, P. E., Westinghouse  
J. Kolk, Audubon Society

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of  
Application for Permit by:

Bay Resource Management Center  
c/o Westinghouse RESD  
Cost Bldg., 2400 Ardmore Blvd  
Pittsburgh PA 15221

DER File Nos. AC 03-145061  
AC 03-152196  
PSD-FL-129

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INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue permits (copy attached) for the project as detailed in the application specified above. The Department is issuing this Intent to Issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, Bay Resource Management Center, applied on August 25, 1989, to the Department of Environmental Regulation for a modification of the construction permit for the Bay County Waste-to-Energy facility in Panama City, Bay County, Florida.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 and 17-4. The project is not exempt from permitting procedures. The Department has determined that an air construction permit is required for the proposed work.

Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permit. The notice shall be published one time only within 30 days, in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. The applicant shall provide proof of publication to the Department, at the address specified within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

The Department will issue the permit with the attached conditions unless a petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant and the parties listed below must be filed within 14 days of receipt of this intent. Petitions filed by other persons must be filed within 14 days of publication of the public notice or within 14 days of receipt of this intent, whichever first occurs. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information;

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

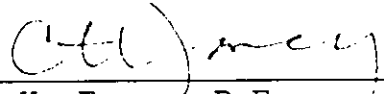
(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the applicant have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office in General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person

has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

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

Copies furnished to:

E. Middleswart, NW District  
T. Moody, NW District  
W. Aronson, EPA  
C. Shaver, NPS  
C. Speicher, P. E., Westinghouse  
J. Kolk, Audubon Society

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on 11-7-21.

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(9), Florida Statutes, with  
the designated Department Clerk,  
receipt of which is hereby  
acknowledged.

[Signature]  
Clerk

[Date]  
Date

State of Florida  
Department of Environmental Regulation  
Notice of Intent to Issue

The Department of Environmental Regulation hereby gives notice of its intent to issue revised permits to Bay Resource Management Center, c/o Westinghouse RESD, Cost Building, 2400 Ardmore Blvd., Pittsburgh, Pennsylvania 15221, for the Bay County Waste-to-Energy facility in Panama City, Bay County, Florida. The project involves the revision of the lead emission limits.

A revision of Best Available Control Technology (BACT) was not required. A revision of the PSD increment consumption was not required. The maximum combined pollutant concentrations from the facility and other sources in the area will be less than the National Ambient Air Quality Standards (NAAQS). The NAAQS are levels set by the EPA which identify the ambient concentration necessary to protect human health and welfare with an adequate margin of safety. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information;

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

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

Department of Environmental Regulation  
Bureau of Air Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Dept. of Environmental Regulation  
Northwest District Office  
160 Governmental Center  
Pensacola, Florida 32501-5794

Department of Environmental Regulation  
Northwest District Branch Office  
340 West 23rd Street, Suite E  
Panama City, Florida 32405

Any person may send written comments on the proposed action to Mr. Bill Thomas at the Department's Tallahassee address. All comments mailed within 30 days of the publication of this notice will be considered in the Department's final determination. Furthermore, a public hearing can be requested by any person. Such requests must be submitted within 30 days of this notice.



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**  
Bay Resource Mgmt. Center  
c/o Westinghouse RESD  
Cost Building  
2400 Ardmore Blvd  
Pittsburgh, PA 15221

**Permit Numbers:** AC 03-145061  
AC 03-152196  
PSD-FL-129

**County:** Bay  
**Expiration Date:** October 1, 1990  
**Latitude/Longitude:** 30°15'54"N  
85°30'08"W

**Project:** Bay County Waste-to-Energy  
Facility, Units 1 & 2

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the increase in municipal solid waste (MSW) facility charging rate from 350 TPD (tons per day) to 510 TPD at the Bay County Waste-to-Energy facility, Bay County, Florida.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted in the General and Specific Conditions.

Attachments are as follows:

1. Westinghouse application package received February 5, 1988.
2. DER's letter of incompleteness dated March 7, 1988.
3. Westinghouse response received March 21, 1988.
4. U.S. EPA's letter dated March 21, 1988.
5. Fish & Wildlife Service letter received April 11, 1988.
6. DER's letter for additional information dated April 19, 1988.
7. Westinghouse response received April 27, 1988.
8. DER's letter dated May 26, 1988.
9. Westinghouse letter received June 10, 1988.
10. Bay County Commissioners' letter received June 16, 1988
11. Bay County Audubon Society letter received July 22, 1988.
12. DER letter dated August 2, 1988.
13. Westinghouse letter received August 12, 1988.
14. Bay County Audubon Society letter received September 20, 1988.
15. EPA letter received October 11, 1988.
16. Final Determination dated October 12, 1988.



Permittee:  
Bay Resource Mgmt. Center

Permit Numbers: AC 03-145061  
AC 03-152196  
PSD-FL-129  
Expiration Date: October 1, 1990

Attachments Continued:

17. Westinghouse letter received April 11, 1989.
18. DER letter dated May 5, 1989.
19. Westinghouse modification request received August 25, 1989.
20. DER's Preliminary Determination dated October 30, 1989.

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

Permittee:  
Bay Resource Mgmt. Center

Permit Numbers: AC 03-145061  
AC 03-152196  
PSD-FL-129  
Expiration Date: October 1, 1990

**GENERAL CONDITIONS:**

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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

Permittee:  
Bay Resource Mgmt. Center

Permit Numbers: AC 03-145061  
AC 03-152196  
PSD-FL-129  
Expiration Date: October 1, 1990

**GENERAL CONDITIONS:**

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, 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:

- (x) Determination of Best Available Control Technology (BACT)
- (x) Determination of Prevention of Significant Deterioration (PSD)
- (x) Compliance with New Source Performance Standards

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.

Permittee:  
Bay Resource Mgmt. Center

Permit Numbers: AC 03-145061  
AC 03-152196  
PSD-FL-129  
Expiration Date: October 1, 1990

**GENERAL CONDITIONS:**

- 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:
- the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the dates analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used; and
  - the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

**SPECIFIC CONDITIONS:**

1. This permit shall supercede the previous permits, which have the same numbers, issued for the Bay County Waste-to-Energy Facility on October 17, 1988.

2. Municipal Waste Combustor

a. The maximum charging rate of each municipal waste combustor (MWC) shall not exceed 255 tons of municipal solid waste (MSW) per day (a total of 510 TPD for the facility); 95.6 million Btu heat input per hour, assuming a heating value of 4,500 Btu per pound; and a steam production rate of 68,000 lbs/hr (design capacity).

b. The wood waste utilization rate shall not exceed 160 TPD for the facility. Wood waste shall be used when sufficient MSW is not available to maintain a steady heat rate.

Permittee:  
 Bay Resource Mgmt. Center

Permit Numbers: AC 03-145061  
 AC 03-152196  
 PSD-FL-129  
 Expiration Date: October 1, 1990

**SPECIFIC CONDITIONS:**

- c. The furnace mean temperature at the fully mixed zone of the combustor shall not be less than 1,800°F.
  - d. The normal operating range of the MWC shall be 80% to 100% of design rated capacity.
  - e. The MWC shall be fueled with municipal solid waste and wood waste only. Other wastes shall not be burned without specific prior written approval of DER.
  - f. Auxiliary fuel burners shall be fueled only with distillate fuel oil or natural gas. If the annual capacity factor for oil or gas is greater than 10%, as determined by 40 CFR 60.43b(d), the facility shall be subject to 40 CFR 60.44b, standards for nitrogen oxides.
  - g. Auxiliary fuel burners shall be used at start up during the introduction of MSW fuel until design furnace gas temperature is achieved.
  - h. The facility may operate continuously (8760 hrs/yr).
3. Each MWC shall be equipped with an electrostatic precipitator for particulate emission control.
4. Flue gas emissions from each unit and the facility (two identical units) shall not exceed the following:

Pollutant	Emission Limitations			Emission Factors	
	Per Unit lbs/hr	Facility lbs/hr	TPY	Wood lb/ton	MSW lb/ton
PM, PM <sub>10</sub>	6.8	13.5	59.1	0.03 gr/dscf	
CO	92.8	185.6	812.9	20.0	3.58
NOx	26.9	53.9	236.1	2.8	2.41
SO <sub>2</sub>	35.8	71.5	313.2	0.3	3.36
VOC	7.1	14.2	62.2	1.7	0.196
Lead	0.10	0.20	0.876	0	0.0096
Mercury	0.18	0.36	1.58	0	0.0017
Beryllium	5x10 <sup>-6</sup>	1x10 <sup>-5</sup>	4.4x10 <sup>-5</sup>	0	4.8x10 <sup>-7</sup>
Fluoride	0.15	0.30	1.31	0	0.014

The following are tabulated for PSD and inventory purposes:

Pollutant	Projected Emissions			Emission Factors	
	Per Unit lb/hr	Facility lb/hr	TPY	wood	MSW
Hydrogen Chloride	61.7	123.3	540	0	5.8
Sulfuric Acid Mist	1.5	3.0	13.1	0	0.14

Permittee:  
Bay Resource Mgmt. Center

Permit Numbers: AC 03-145061  
AC 03-152196  
PSD-FL-129  
Expiration Date: October 1, 1990

**SPECIFIC CONDITIONS:**

Visible emissions shall not exceed 15% opacity (6 min. average).

PM<sub>10</sub> emissions are conservatively assumed to be equal to 100% PM.

Compliance with the permit emission limits shall be determined by EPA reference method tests included in 40 CFR Parts 60 and 61 (July 1, 1987 version) and listed in Condition No. 5 of this permit or by equivalent methods approved by Florida DER.

For the purpose of establishing specific increment consumption for TSP and SO<sub>2</sub> at the facility, an hourly emission rate shall be established for each pollutant at the time of performance testing.

The combustors are subject to 40 CFR Part 60, Subpart E; and Subpart Db, when heat input per unit exceeds 100 MMBtu/hr; except that where requirements within the permit are more restrictive, the requirements of the permit shall apply.

**5. Compliance Tests**

a. Initial compliance tests for particulate matter, SO<sub>2</sub>, nitrogen oxides, CO, VOC, lead, fluorides, mercury and beryllium shall be conducted in accordance with 40 CFR 60.8 (a), (b), (d), (e), and (f).

b. Annual compliance tests for particulate matter, sulfur dioxide, and nitrogen oxides shall be performed.

c. Initial and annual visible emissions compliance tests shall be determined in accordance with 40 CFR 60.11(b) and (e).

d. The compliance tests shall be conducted within 10% of the maximum capacity and firing rate of each permitted fuel.

e. The following test methods and procedures of 40 CFR Parts 60 and 61 or other DER approved methods with prior DER approval shall be used for compliance testing:

(1) Method 1 for selection of sample site and sample traverses.

(2) Method 2 for determining stack gas flow rate.

(3) Method 3 or 3A for gas analysis for calculation of percent O<sub>2</sub> and CO<sub>2</sub>.

Permittee:  
Bay Resource Mgmt. Center

Permit Numbers: AC 03-145061  
AC 03-152196  
PSD-FL-129  
Expiration Date: October 1, 1990

**SPECIFIC CONDITIONS:**

- (4) Method 4 for determining stack gas moisture content to convert the flow rate from actual standard cubic feet to dry standard cubic feet.
- (5) Method 5 or Method 17 for particulate matter.
- (6) Method 9 for visible emissions, in accordance with 40 CFR 60.11.
- (7) Method 6, 6C, or 8 for SO<sub>2</sub>.
- (8) Method 7, 7A, 7B, 7C, 7D, or 7E for nitrogen oxides.
- (9) Method 10 for CO.
- (10) Method 12 for lead.
- (11) Method 13B for fluorides.
- (12) Method 25 or 25A for VOCs.
- (13) Method 101A for mercury.
- (14) Method 104 for beryllium.

**6. Continuous Emission Monitoring**

Continuous emission monitors for opacity, oxygen, and carbon monoxide shall be installed, calibrated, maintained and operated for each unit.

a. Each continuous emission monitoring system (CEMS) shall meet performance specifications of 40 CFR 60, Appendix B.

b. CEMS data shall be recorded during periods of startup, shutdown and malfunction but shall be excluded from emission averaging calculations for CO and opacity.

c. A malfunction means any sudden and unavoidable failure of air pollution control equipment or process equipment to operate in a normal or usual manner. Failures that are caused entirely or in part by poor maintenance, careless operation or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions.

d. The procedures under 40 CFR 60.13 shall be followed for installation, evaluation and operation of all CEMS.

Permittee:  
Bay Resource Mgmt. Center

Permit Numbers: AC 03-145061  
AC 03-152196  
PSD-FL-129  
Expiration Date: October 1, 1990

**SPECIFIC CONDITIONS:**

e. Opacity monitoring system data shall be reduced to 6-minute averages, based on 36 or more data points, and gaseous CEMS data shall be reduced to 1-hour averages, based on 4 or more data points, in accordance with 40 CFR 60.13(h).

f. CO emissions, corrected to 7% O<sub>2</sub>, shall be recorded. A CO value of 400 ppmvd shall indicate good combustion (800 ppm corresponds to the emission limitation in Condition No. 4).

g. For purposes of reports required under this permit, excess emissions are defined as any calculated average emission concentration, as determined pursuant to Condition No. 8 herein, which exceeds the applicable emission limit in Condition No. 4.

**7. Operations Monitoring**

a. Devices shall be installed to continuously monitor and record steam production, furnace exit gas temperature (FEGT) and flue gas temperature at the exit of the control equipment. An FEGT to combustion zone correlation shall be established to relate furnace temperature at the temperature monitor location to furnace temperature in the overfire air fully mixed zone.

b. The furnace heat load shall be maintained between 80% and 100% of the design rated capacity during normal operations. The lower limit may be extended provided compliance with the carbon monoxide emissions limit and the FEGT within this permit at the extended turndown rate are achieved.

**8. Reporting**

a. A minimum of fifteen (15) days prior notification of compliance test shall be given to DER's Northwest District office.

b. The results of compliance test shall be submitted to the Department's Northwest District office within 45 days after completion of the test.

c. The owner or operator shall submit excess emission reports for any calendar quarter during which there are excess emissions from the facility. If there are no excess emissions during the calendar quarter, the owner or operator shall submit a report semiannually stating that no excess emissions occurred during the semiannual reporting period. The report shall include the following:



Permittee:  
Bay Resource Mgmt. Center

Permit Numbers: AC 03-145061  
AC 03-152196  
PSD-FL-129  
Expiration Date: October 1, 1990

**SPECIFIC CONDITIONS:**

(1) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factors used, and the date and time of commencement and completion of each period of excess emissions (60.7(c)(1)).

(2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the furnace boiler system. The nature and cause of any malfunction (if known) and the corrective action taken or preventive measures adopted (60.7(c)(2)).

(3) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks, and the nature of the system repairs or adjustments (60.7(c)(3)).

(4) When no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in the report (60.7(c)(4)).

(5) The owner or operator shall maintain a file of all measurements, including continuous monitoring systems performance evaluations; monitoring systems or monitoring device calibration; checks; adjustments and maintenance performed on these systems or devices; and all other information required by this permit recorded in a permanent form suitable for inspection (60.7(d)).

9. Any change in the method of operation, fuels, equipment or operating hours shall be submitted for approval to the Department's Northwest District office.

10. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. 17-4.090).

11. An application for an operation permit must be submitted to the Northwest District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. 17-4.220).

Permittee:  
Bay Resource Mgmt. Center

Permit Numbers: AC 03-145061  
AC 03-152196  
PSD-FL-129  
Expiration Date: October 1, 1990

Issued this \_\_\_\_\_ day  
of \_\_\_\_\_, 1989

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

---

Dale Twachtmann, Secretary

Attachments Available Upon Request

# Say Co RRF PD Current conditions

### III. Emissions and Controls

The major air pollutant emitted from the resource recovery facility will be particulate. The proposed precipitators will reduce particulate emissions for each incinerator from 429 pounds per hour to 5.7 pounds per hour. The precipitators will also reduce lead emissions for each incinerator from 2 pounds per hour to 0.036 pound per hour.

The projected air pollutant emissions from both units are listed as follows:

<u>Regulated Pollutant</u>	<u>Maximum lb/hr</u>	<u>tons/year</u>
Particulate, PM	11.4	50
Sulfur Dioxide, SO <sub>2</sub>	44.2	192
Nitrogen Oxides, NO <sub>x</sub>	48.8	214
Carbon Monoxide, CO	230.8	1010
Hydrocarbons, HC	18.0	78
Lead, Pb	0.072	0.3

### IV. Rule Applicability

The proposed project is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code (FAC).

The proposed facility is located in an attainment area for all regulated air pollutants. This type of facility is one of the major facility categories listed in Table 500-1, Rule 17-2.500, and, therefore, would require new source review under this rule if any pollutant would have potential emissions equal to or greater than 100 tons per year. Specifically, the project is subject to the provisions of Rule 17-2.500, Prevention of Significant Deterioration (PSD), which requires an air quality impact analysis and the use of Best Available Control Technology (BACT). All regulated air pollutants from this facility, except hydrocarbons and lead, PSD are subject to PSD review because the total emission rate of each pollutant is greater than the significant emission rate as listed in Table 500-2, Rule 17-2.500.

Each of the two incinerators will have a charging rate of more than 50 tons per day; therefore, they are subject to the provisions of 40 CFR 60.50, Subpart E - Standards of Performance for Incinerators. The particulate emission limit required by the Standards is 0.08 gr/dscf, corrected to 12 percent CO<sub>2</sub>.

### V. Control Technology Review

Electrostatic precipitators (ESPs) have been proposed by the applicant for the two incinerators, which will reduce particulate emissions to 0.02 gr/dscf, corrected to 12 percent CO<sub>2</sub>. The baghouse is another control device capable of achieving the BACT particulate emission limit of 0.03 gr/dscf. The applicant

Technical Evaluation  
and  
Preliminary Determination

Bay Resource Management Center  
Panama City, Bay County, Florida

Bay County Waste-to-Energy Facility

Unit 1, AC 03-145061  
Unit 2, AC 03-152196

PSD-FL-129

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

October 30, 1989

## Technical Evaluation

The Department received a permit modification request dated August 25, 1989, for a revision of the lead emission limit for the Bay County Waste-to-Energy facility.

In October of 1988, DER had issued a permit modification to allow an increase in the municipal solid waste (MSW) charging rate for the facility, from 350 TPD (tons per day) MSW and 160 TPD wood waste, to 510 TPD MSW - the original design rate. The permit conditions in PSD-FL-129 required initial tests for several pollutants including lead to verify Westinghouse's projected emissions. The permitted lead emissions rate is 0.04 lb/hr per combustor (0.08 lb/hr for the facility). Results from initial performance tests on the two units indicate lead emissions in the range of 0.041 lb/hr for Unit 1 and 0.084 lb/hr for Unit 2.

The apparent discrepancy goes back to the emission factor proposed by Westinghouse in 1984 (the initial construction permit application) of 0.0358 lb/hr/unit for a facility burning 510 TPD of MSW/wood waste mixture, and not 510 TPD of MSW. It should also be noted that the earlier emission factor was based on a single test conducted at a 200 TPD MSW facility in Gallatin, Tennessee.

Westinghouse is now requesting that the emission factor be corrected based on currently available data. The proposed new factor is 0.1 lb/hr. This factor is comparable to that of other similar MSW facilities.

The increase in the lead emissions requires a reevaluation of the project for changes in source operation, rule applicability, emission limitations, BACT, and ambient air impacts.

The Department has determined that the revised emissions do not significantly alter any of the aspects of the earlier project review. DER will revise the lead emission limitations to 0.1 lb/hr/unit.

The changes in the lead emissions are not significant, in accordance with Table 500-1 in Chapter 17-2.500 of the Florida Administrative Code, and therefore do not trigger a BACT analysis for lead. This review does not change any aspects of the BACT done previously.

The ambient air impacts are not significantly affected by this modification. Although the lead emissions will more than double, the predicted impact on the lead NAAQS for the entire facility is less than 2%.

Conclusion

Based on the information provided by Westinghouse for Bay Resource Management Center, the Department has reasonable assurance that the revision of the lead emissions limit for the Bay County Waste-to-Energy Facility, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code.

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Conclusion

Based on the information provided by Westinghouse for Bay Resource Management Center, the Department has reasonable assurance that the revision of the lead emissions limit for the Bay County Waste-to-Energy Facility, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code.

*CH Jolley*  
11/16/89

*Date  
should  
be  
11-6*



13/1/11

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3. Article Addressed to: Mr. David S. Beachler Westinghouse RESD 2400 Ardmore Blvd. Pittsburgh, PA 15221	4. Article Number P 938 762 739
Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
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