

**BAY RESOURCE
MANAGEMENT
INC.**

P.O. Box 700
Lynn Haven, Florida 32444
(904) 785-7933

BRM/DER/87-2416

January 16, 1987

DER
JAN 20 1987
BAQM

Mr. C. H. Fancy, P.E.
Bureau of Air Quality Management
Florida Department of Environmental
Regulation
2600 Blair Stone Road
Room 306
Tallahassee, FL 32301

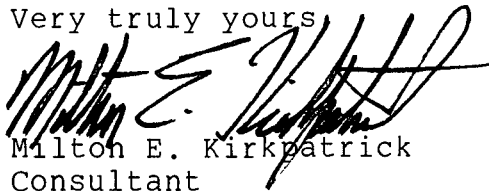
Re: Bay County Resource Recovery Plant
Permit No. AC-03-84703
Permit No. AC-03-84704

Dear Mr. Fancy:

Please be advised that we anticipate initial startup operations on municipal solid waste within the next thirty days.

Please advise if we may provide further information.

Very truly yours,



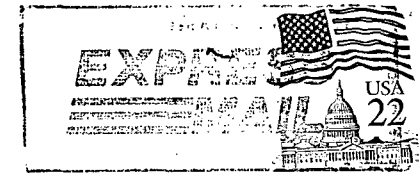
Milton E. Kirkpatrick
Consultant

MEK/wlf

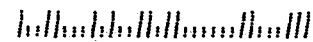
cc: Thomas Moody, N.W. District, Florida D.E.R.
Nevin Zimmerman, Bay County Attorney

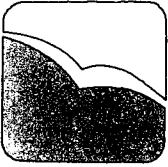


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Bureau of Air Quality Management
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2600 Blair Stone Road
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Tallahassee, FL 32301





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MANAGEMENT
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P.O. Box 700
Lynn Haven, Florida 32444
(904) 785-7933

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BRM/DER-87-2495

February 26, 1987

Bureau of Air Quality Management
Florida Department of Environmental
Regulation
2600 Blair Stone Road
Tallahassee, FL 32301

ATTN: Mr. Clare Fancy, P.E.

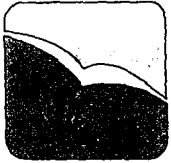
Dear Mr. Fancy:

Please consider this notification that the Bay
Resource Recovery Plant has entered the initial
start-up phase.

Sincerely,

Milton E. Kirkpatrick
Consultant

MEK/wlf



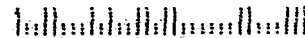
**BAY RESOURCE
MANAGEMENT
INC.**

P.O. Box 700
Lynn Haven, Florida 32444
(904) 785-7933



Bureau of Air Quality Management
Florida Department of Environmental
Regulation
2600 Blair Stone Road
Tallahassee, FL 32301

ATTN: Mr. Clare Fancy, P.E.



end of 55, 755 010
3-31-89
Pittsburgh, PA



Westinghouse
Electric Corporation

EN2039DB

Resource Energy Systems
Division

2400 Ardmore Boulevard
Pittsburgh Pennsylvania 15221
(412) 636 5800
WIN 261 5800

March 31, 1989

Clair Fancy
Florida DER
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399

Dear Clair:

I am writing you regarding air permits No. AC03-145061, AC03-152196, and PSD-FL-129 for the Bay Resource Management Center.

Enclosed is a test report that summarizes results from testing that was conducted at the Bay Facility on March 8-19, 1989. Testing was conducted on Unit 2 at various MSW feed rates to measure thermal performance of the combustor/boiler system and the corresponding emission rates. For the data supplied in the enclosed test report, the MSW feed rate was approximately 255 tons/day or above (ranged from 260 to 370 tpd). The data submitted includes hourly averages for 5 separate days for SO₂, NO_x, CO and O₂ emissions that were measured using continuous emission monitors. Data for non-methane hydrocarbons (VOCs), fluorides, and H₂SO₄ mist are also included.

We would like to request that this data be used to fulfill the compliance testing requirements to measure SO₂, NO_x, CO, VOCs and fluorides. We propose to measure particulate matter concentration, lead, mercury, and beryllium during a test program to be held in late April 1989. We propose that particulate matter be measured from both units (3 runs, each EPA method 5). Lead, mercury, and beryllium will be measured according to EPA methods 12, 101A, and 104 respectively, 3 runs for each method on one unit only. The proposed test protocol is enclosed for your review and approval. We will notify you (and the NW District Office) two weeks prior to conducting the compliance tests.

Nancy Hirko of Westinghouse RESD will be in charge of this test program. If you have any questions regarding the enclosed test report or proposed test protocol, please call me at (412) 636-5806 or Nancy Hirko at (412) 636-5890.

RECEIVED

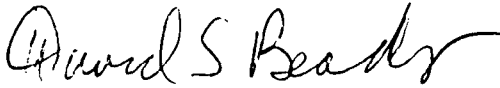
APR 3 1989

DER-BAQIM

March 29, 1989

We look forward to hearing from you shortly regarding the acceptability of the March 1988 test results as compliance testing data.

Sincerely,



D. S. Beachler, Manager

/tlb
EN2039DB-EN61
Enclosure

cc: N. M. Hirko
M. R. Lindsey
E. Middleswart, Florida DER, NW District Office

copied : P. Raval
B. Andrews
J. Pennington
M. Aronson, EPA
CHF/BT

3319547442
4-10-89
Pittsburgh, PA



Westinghouse
Electric Corporation
EN2084NH

Resource Energy Systems
Division

Cost Building
2400 Ardmore Boulevard
Pittsburgh Pennsylvania 15221
(412) 636 5800
WIN 261 5800

April 10, 1989

RECEIVED
APR 11 1989
DER-BAQM

Mr. Pradeep Raval
Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399

Dear Pradeep:

Enclosed are the two simplified process flow diagrams for the Bay Resource Management Center that you have requested. Figure 1 displays the original boiler design without an economizer installed and Figure 2 displays the current design with the economizer installed in the boiler upstream of the air heater. The economizers were installed in both combustor/boiler trains in order to reduce the flue gas exit temperature from approximately 550 - 575F to the original design values of 400 - 450F.

I would also like to clarify a question you had pertaining to the firing of sewage sludge at the Bay County Facility during the March 1988 Research Test Program. I have included a copy of a letter dated May 19, 1987 from Mr. Norman Richards of the Northwest District of the Florida DER to Mr. David Beachler of Westinghouse. In the letter, permission was granted to fire sewage sludge during two tests of 36 hours each in duration at the Bay Resource Management Center. One test was actually conducted during a ten hour test period on March 16-17, 1988. At no other time has sewage sludge been burned at the Bay Resource Management Center.

You also raised several questions concerning the high MSW feed rates during the March 1988 test program at the Bay Resource Management Center, especially for Set Point Number 5. In this test mode, wetted MSW (HHV equal to or less than 3600 BTU/lb) was used as feed material. A total of three tests were conducted at this Set Point. Each test lasted approximately two to three hours. The MSW feed rates for these tests averaged 18.3 tons per hour during a seven hour period on March 19, 1988. This rate does translate to 440 tons of MSW fired per day, however, the plant returned to normal MSW firing rates (10.6 tons per hour) following completion of the seven hour test period.

Page 2
April 10, 1989

Also as noted, the MSW feed rate for Set Point No. 5 was calculated based on the conveyor load cell readings during the test. Because of the high moisture loading of the MSW, it was difficult to accurately estimate MSW charging weights. Also, the lower heating value of the wetted MSW meant that additional MSW had to be fired to maintain plant operating conditions.

Although several of the tests during the March 1988 test program were conducted at what can be called "worst case" scenarios, the emissions data indicate that permit levels can be met. Also, it would not be uncommon to encounter these so-called "worst case" scenarios in the normal daily operation of the plant, since MSW properties are highly variable.

Please take this additional information into consideration when reviewing the March 1988 test program that was conducted at the Bay County Facility. If you have any further questions, please do not hesitate to call me at (412) 636-5890. I hope to hear from you by April 14, 1989 in order for us to establish the final test plan for the upcoming April 24-28 test program.

Sincerely,

Nancy M. Hirko

Nancy M. Hirko
Senior Engineer
Environmental & Quality Engineering

cc: D. S. Beachler
M. R. Lindsey, Bay Resource Management Center
E. Middleswart, Florida DER, NW District Office

copied: P. Raval
B. Andrews
P. Pennington
J. Cronson, EPA
CHF/BT

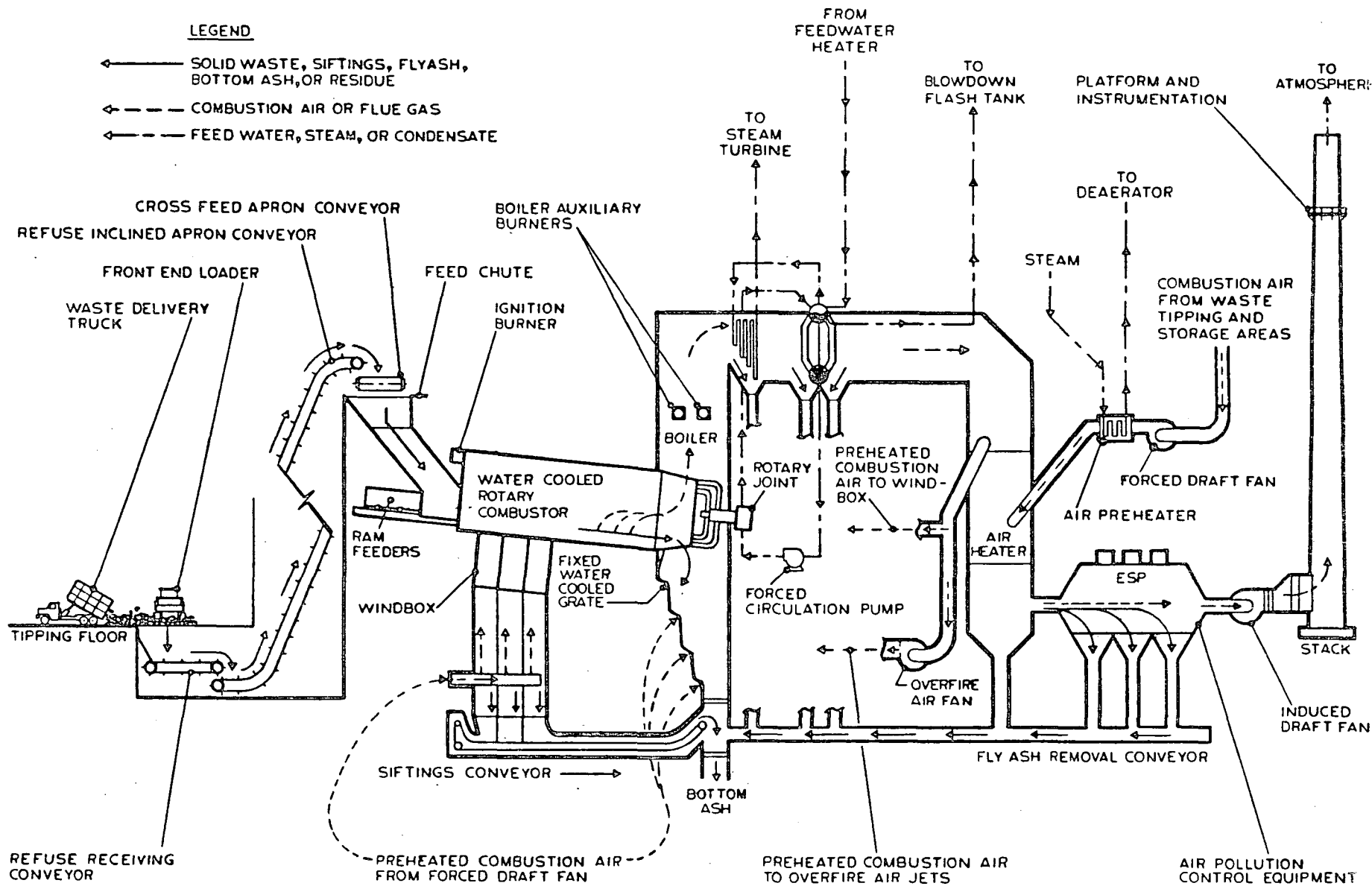


Figure 1

Simplified Process Flow Diagram - Gas Cycle, Without Economizer, Bay Resource Management Center

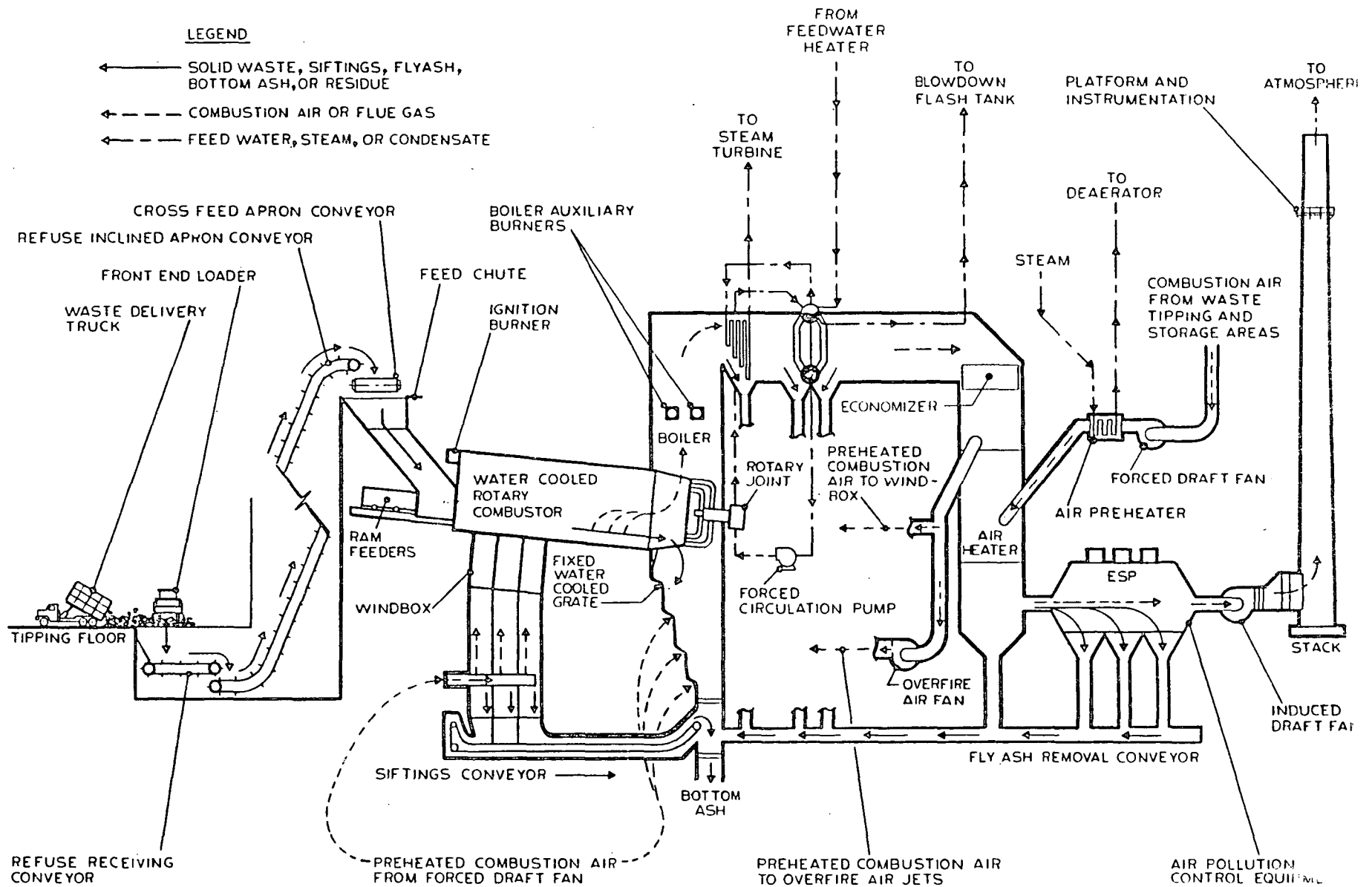


Figure 2

Simplified Process Flow Diagram - Gas Cycle, with Economizer Installed, Bay Resource Management Center

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

NORTHWEST DISTRICT
160 GOVERNMENTAL CENTER
PENSACOLA, FLORIDA 32501-5794



May 19, 1987

MAY 22 1987

BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
ROBERT V. KRIEGLER
DISTRICT MANAGER

Mr. D. S. Beachler, Manager
Environmental and Quality Engineering
Resource Energy Systems Division
Westinghouse Electric Corporation
2400 Admore Boulevard
Pittsburgh, Pennsylvania 15221

Dear Mr. Beachler:

This letter is in response to your requests of May 8, 1987. This letter allows operation during a 10-day test period in the manner you requested.

This letter does not amend condition 2 of the construction permits AC03-84703 and -84704, which specifically excludes the use of sewage sludge to fire the incinerator. The test firings with sewage sludge are limited to 2 tests of 36 hours each. Any future incineration of sewage sludge would require amendment of the construction permits after application to and review by Central Air Permitting Section (CAPS) of the Bureau of Air Quality Management, Department of Environmental Regulation, Tallahassee.

Sincerely,

Norman Richards, Ph.D.
Assistant District Manager

NR/jpl