

098

AGENDA  
PINELLAS COUNTY RESOURCE RECOVERY FACILITY  
July 7, 1994

1030117

- I. INTRODUCTION - PROJECT DESCRIPTION
- II. REGULATORY DECISIONS
  - A. PPSA
  - B. PSD/NSR
  - C. NSPS/EMISSION GUIDELINES
  - D. OPERATING PERMITS
- III. CONTROL TECHNOLOGY REVIEW
  - A. SCRUBBER BAGHOUSE (SDA/FF)
  - B. MERCURY CONTROL SYSTEM
  - C. NO<sub>x</sub> CONTROL SYSTEM
  - D. COMBUSTION CONTROLS
- IV. IMPACT ASSESSMENT
  - A. MODELS
  - B. SOURCES
  - C. CLASS I IMPACTS
- V. CONTACT PERSONNEL
  - A. PROJECT TEAM
  - B. FDEP
- VI. SCHEDULE
- VII. OPTIONAL INDIRECT SLUDGE DRYER (AND DIRECT)

Pine Hills Co. Retrofit

Power Plant Cost.

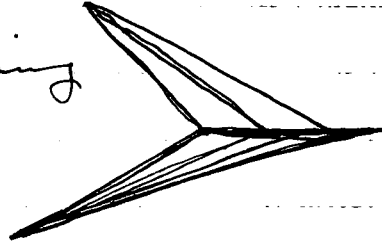
Mercury  
NO<sub>x</sub>

Net emissions decrease

They don't want PSD/NSR.

1) Tires & Shingles Burning

2) Segregated Waste



210,200 (14) →

Q 40 60 Cb Sub. - exempt from NSR?

Control Tech. Review

3. OFF

- Spray Dry Fabric Filter

NO<sub>x</sub> - SWCA

Impact ASSESS

Emission Rate →

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

# ROUTING AND TRANSMITTAL SLIP

TO: (NAME, OFFICE, LOCATION)

1. *Jessica*
2. *Charles*
- 3.
- 4.

*Please plan to attend this meeting.*

FROM: *Merton*

DATE: *6/16/94*

PHONE:

CARLTON, FIELDS, WARD, EMMANUEL, SMITH & CUTLER, P. A.

ATTORNEYS AT LAW

ONE HARBOUR PLACE P.O. BOX 3239 TAMPA, FLORIDA 33601 (813) 223-7000 FAX (813) 229-4133	FIRSTATE TOWER P.O. BOX 1171 ORLANDO, FLORIDA 32802 (407) 849-0300 FAX (407) 848-9099	HARBOURVIEW BUILDING P.O. BOX 12426 PENSACOLA, FLORIDA 32582 (904) 434-0142 FAX (904) 434-5366	FIRST FLORIDA BANK BUILDING P.O. DRAWER 190 TALLAHASSEE, FLORIDA 32302 (904) 224-1585 FAX (904) 222-0398	ESPERANTE P.O. BOX 150 WEST PALM BEACH, FLORIDA 33402 (407) 659-7070 FAX (407) 659-7368	BARNETT TOWER P.O. BOX 2861 ST. PETERSBURG, FLORIDA 33731 (813) 821-7000 FAX (813) 822-3788
--	---	--	--	---	---

PLEASE REPLY TO :

June 13, 1994

Tallahassee

Preston Lewis  
Department of Environmental  
Protection  
Bureau of Air Regulation  
2600 Blair Stone Road  
Mail Station 5505  
Twin Towers Office Building  
Tallahassee, Florida 32399

RECEIVED

JUN 15 1994

Bureau of  
Air Regulation

*Set up  
DA Room  
Conf. Rm.*

Re: Pinellas County Resource Recovery Facility

Dear Mr. Lewis:

On behalf of Pinellas County, I am sending you this letter to confirm that Pinellas County and the Florida Department of Environmental Protection will meet in the Department's offices at the Magnolia Courtyard in Tallahassee on July 7, 1994, at 2:00 PM to discuss the Pinellas County resource recovery facility. It is my understanding that the meeting will be attended by Clair Fancy, Tom Rogers, Mike Hewitt, Buck Oven and yourself, on behalf of the Department. John Brown and Richard Donelan will attend if their schedules allow. Pinellas County's representatives will include Mike Rudd, Don Elias (RTP), Peter Stasis (HDR), me, and perhaps others.

It also is our understanding that the Department will invite the appropriate representatives from EPA to attend the meeting, if possible, or at least participate by telephone conference call.

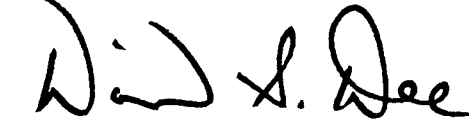
The general purpose of the meeting is to discuss the County's plan to retrofit and upgrade its 3,000 TPD resource recovery facility. The County intends to install new air pollution control equipment at the facility and thereby bring the facility into compliance with the Department's mercury rule, Section 17-296.416, F.A.C., and the anticipated requirements of EPA's New Source Performance Standards for Municipal Waste Combustors (40 CFR Part 60, Subpart Eb), which EPA plans to propose within the next few weeks and promulgate by January 1995. The County wants to discuss its plans with DEP and EPA before it

Preston Lewis  
Page Two  
June 13, 1994

prepares the applications for this work. The County wants to determine: (a) whether the conditions of site certification for the facility need to be amended or modified for the retrofit; (b) whether the regulatory review process conducted for the retrofit can be integrated with the review process for the facility's Title V permit; (c) whether there are any specific modelling or air quality issues that need to be addressed in the County's application for the retrofit; and (d) whether there are any other procedural or substantive issues that the County should address to ensure the timely approval of its proposal.

I look forward to seeing you and the other members of the Department on July 7th. Please call me if you have any questions prior to our meeting.

Sincerely,



David S. Dee

cc: Bob Van Deman  
Mike Rudd  
Don Elias  
Peter Stasis  
Susan Churuti  
Julie Yard  
Pickens Tally  
Clair Fancy  
Buck Oven  
Tom Rogers  
Mike Hewett  
Richard Donelan  
John Brown  
Scott Davis  
Bruce Miller  
Greg Worley

2625

PERMIT TO CONSTRUCT UNDER THE RULES FOR THE  
PREVENTION OF SIGNIFICANT DETERIORATION OF AIR QUALITY

Pursuant to and in accordance with the provisions of Part C, Subpart 1 of the Clean Air Act, as amended, 42 U.S.C. §7470 et. seq., and the regulations promulgated thereunder at 40 CFR §52.21, as amended at 45 Fed. Reg. 52676, 52735-41 (August 7, 1980),

UNIT #3

Pinellas County, Florida

is, as of the effective date of this permit (PSD-FL-98) authorized to construct a stationary source at the following location:

One mile east of Pinellas Park on the existing County's existing Bridgeway Acres Phase I Landfill tract.

Upon completion of authorized construction and commencement of operation/production, this stationary source shall be operated in accordance with the emission limitations, sampling requirements, monitoring requirements and other conditions set forth in the attached Specific Conditions (Part I) and General Conditions (Part II)

This permit is hereby issued on \_\_\_\_\_ and shall become effective thirty (30) days after receipt hereof unless a petition for administrative review is filed with the Administrator during that time. If a petition is filed any applicable effective date shall be determined in accordance with 40 CFR §124.19(f)(1).

If construction does not commence within 18 months after the effective date of this permit, or if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time, this permit shall expire and authorization to construct shall become invalid.

This authorization to construct/modify shall not relieve the owner or operator of the responsibility to comply fully with all applicable provisions of \_\_\_\_\_

(Fit in blank)

Date Signed

Regional Administrator

5-30-86

~~27~~  
26

PART I

Specific Conditions

1. Emission Limitations

a. Stack emissions from Unit #3 shall not exceed the following:

- (1) Particulate matter: in grains per standard cubic foot dry gas corrected to 12% CO<sub>2</sub> - 0.03.
- (2) SO<sub>2</sub> - 170 lbs./hr.
- (3) Nitrogen oxides - 254 lbs./hr.
- (4) Carbon monoxide - 66 lbs./hr.
- (5) Lead - 4.4 lb./hr.
- (6) Mercury - 3200 grams/day when more than 2205 lbs./day of municipal sludge is fired. Compliance shall be determined in accordance with 40 CFR 6.1, Method 101, Appendix B.
- (7) Odor - there shall be no objectionable odor
- (8) Visible emissions - stack opacity shall be no greater than 20% except as provided for during start-up, shutdown or malfunctions when the provisions of 17-2.250, FAC shall apply.

c. The height of the boiler exhaust stack shall not be less than 161 feet above grade.

d. The incinerator boilers shall not be loaded in excess of their rated capacity of 87,500 pounds of municipal solid waste per hour each.

e. The incinerator boilers shall have a metal name plate affixed in a conspicuous place on the shell showing manufacturer, model number, type waste, rated capacity and certification number.

f. Compliance with the limitations for particulates, sulfur oxides, nitrogen oxides, carbon monoxide and lead shall be determined in accordance with Florida Administrative Code Rule 17-2.700, DER Methods 1,2,3,5,6, and 40 CFR 60, Appendix A, Method 7. The stack test shall be performed at +/- 10% of the maximum steam rate of 250,000 pounds per hour.

5-30-86

- 2. The height of the boiler exhaust stack shall be ~~270~~ feet above ground level at the base of the stack.
- 3. The incinerator boilers shall not be loaded in excess of their rated capacity of ~~20,000~~ pounds per hour each.  
87,500
- 4. The incinerator boilers shall have a metal name plate affixed in a conspicuous place on the shell showing manufacturer, model number, type waste, rated capacity and certification number.
- 5. The permittee must submit to EPA and DER within fifteen (15) days after it becomes available to the County, copies of technical data pertaining to the incinerator boiler design, to the electrostatic precipitator design, and to the fuel mix that can be used to evaluate compliance of the facility with the preceding emission limitations.
- 6. Grease, scum, grit screenings or sewage sludge shall not be charged into the solid waste to energy facility boilers.
- 7. Electrostatic Precipitator

The electrostatic precipitator shall be designed and constructed to limit particulate emissions to no more than ~~0.021~~ grains per dscf corrected to 12% CO<sub>2</sub>.  
0.03

8. Stack Monitoring Program

The permittee shall install and operate continuous monitoring devices for oxygen and stack opacity.

The monitoring devices shall meet the applicable requirements of Rule 17-2.710, FAC, 40 CFR Part 60, Subparts A and D, Sections 60.13 and 60.45 respectively, except that emission rates shall be calculated in units consistent with emission limits in this permit. The conversion procedure shall be approved by EPA.

9. Reporting

- a. A copy of the results of the stack tests shall be submitted within forty-five days of testing to the DER Southwest Florida District Office, the Pinellas County Department of Environmental Management (PCDEM) and EPA Region IV.
- b. Stack monitoring shall be reported to PCDEM, the DER Southwest District Office and EPA Region IV on a quarterly basis in accordance with Section 17-2.710, FAC, and 40 CFR, Part 60, Subsection 60.7.

10. Fuel

The Resource Recovery Facility shall utilize refuse such as garbage and trash (as defined in Chapter 17-7, FAC) but not sludge from sewage treatment plants as its fuel. Use of alternate fuels would necessitate application for a

modification to this permit.



11. Addresses for submitting reports are:

a. EPA - Region IV

Chief, Air Compliance Branch  
U.S. Environmental Protection Agency  
345 Courtland St.  
Atlanta, GA 30365

b. DER

Chief, Compliance and Ambient Monitoring  
Bureau of Air Quality Management  
Florida Department of Environmental  
Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32301

c. Southwest District Office of DER

District Manager  
Department of Environmental Regulation  
7601 Highway 301 N.  
Tampa, FL 33610

~~30~~ 29

PART II

General Conditions

1. The permittee shall comply with the notification and record-keeping requirements codified at 40 CFR Part 60, Subpart A, ¶ 60.7.
2. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of two (2) years from the date of recording.
3. If, for any reason, the permittee does not comply with or will not be able to comply with the emission limitations specified in this permit, the permittee shall provide EPA with the following information in writing within five (5) days of such conditions:
  - (a) description of noncomplying emission(s),
  - (b) cause of noncompliance,
  - (c) anticipated time the noncompliance is expected to continue or, if corrected, the duration of the period of noncompliance,
  - (d) steps taken by the permittee to reduce and eliminate the noncomplying emission, and
  - (e) steps taken by the permittee to prevent recurrence of the noncomplying emission.

Failure to provide the above information when appropriate shall constitute a violation of the terms and conditions of this permit. Submittal of the aforementioned information does not constitute a waiver of the emission limitations contained within this permit.

4. Any proposed change in the information submitted in the application regarding facility emissions or changes in the quantity or quality of materials processed that would result in new or increased emissions or ambient air quality impact must be reported to EPA. If appropriate, modifications to the permit may then be made by EPA to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause violation of the emission limitations specified herein. Any construction or operation of the source in material variance with the application shall be considered a violation of this permit.

5-30-86

3+  
30

5. In the event of any change in control or ownership of the source described in the permit, the permittee shall notify the succeeding owner of the existence of this permit and EPA of the change in control of ownership within 30 days.
6. The permittee shall allow representatives of the state and local environmental control agency or representatives of the EPA upon the presentation of credentials:
  - (a) to enter upon the permittee's premises, or other premises under the control of the permittee, where an air pollutant source is located or in which any records are required to be kept under the terms and conditions of the permit;
  - (b) to have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit, or the Clean Air Act;
  - (c) to inspect at reasonable times any monitoring equipment or monitoring method required in this permit;
  - (d) to sample at reasonable times any emissions of pollutants; and
  - (e) to perform at reasonable times an operation and maintenance inspection of the permitted source.
7. The conditions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

5-30-86