



Department of Environmental Protection

Lawton Chiles
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

NOTICE OF PERMIT AMENDMENT

In the matter of an
Application for Permit Amendment by:

DEP File No. PSD-FL-108(B)

Mr. David B. Lowe
Solid Waste Authority of
Palm Beach County
7501 North Jog Road
West Palm Beach, Florida 33412


02-23-96P02:45 RCVD

Enclosed is amended permit No. PSD-FL-108(B) to install a landfill collection system to control emissions from the Class I and Class III landfills at the North County Resource Recovery Facility (NCRRF). The amendment authorizes operation in Palm Beach County, Florida. This permit amendment is issued pursuant to Section 403, Florida Statutes.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; 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 of Appeal must be filed within 14 days from the date this Notice is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


C. R. Fancy, P.E., Chief
Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
904-488-1344

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT AMENDMENT and all copies were mailed by certified mail before the close of business on 2-21-96 to the listed persons.

Clerk Stamp
FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to
§120.52(11), Florida Statutes,
with the designated Department
Clerk, receipt of which is hereby
acknowledged.

Kuni Jobs
Clerk

2-21-96
Date

Copies furnished to:

J. Kahn, SED
J. Harper, EPA
J. Bunyak, NPS
H. Oven, PPS
A. Makled, P.E.
J. Koerner, PBCHU



Department of Environmental Protection

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Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
February 20, 1996

Virginia B. Wetherell
Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. David B. Lowe
Solid Waste Authority of
Palm Beach County
7501 North Jog Road
West Palm Beach, Florida 33412

Dear Mr. Lowe:

Re: North County Resource Recovery Facility (NCRRF)
PSD-FL-108(B), Solid Waste Authority of Palm Beach County

The Department received your request of August 11, 1995, and supporting information to install a landfill collection system to control emissions from the Class I and Class III landfills at the North County Resource Recovery Facility (NCRRF). This request will require adding new specific conditions to the above referenced PSD permit. This permit is amended as follows:

NEW SPECIFIC CONDITIONS:

1. This source shall be allowed to operate continuously (i.e., 8760 hours/year).
2. The utility flare system shall be designed, manufactured, and operated according to U.S. Environmental Protection Agency criteria as specified in 40 CFR 60.18, in order to ensure high efficiency combustion of landfill gas at the 98% level of destruction of total hydrocarbons, with a flame temperature of at or above 1400°F.
3. There shall be no visible emissions from any individual flare, except for periods not to exceed a total of five minutes during any two consecutive hours at which visible emissions can be up to 20 percent opacity.
4. For inventory purposes, the pollutant emission rates from each of the flare systems are:

EMISSION RATE

<u>Pollutant</u>	<u>Emission Factors</u>	<u>Pounds/Hour</u>	<u>Tons/Year</u>
NO _x	0.07 lb/million Btu	1.67	7.33
→ VOC	36 lb/million ft ³	1.94	8.51
SO ₂	0.002 lb/scf	1.67	1.33
PM ₁₀	1.69 E-05 lb/scf	0.91	3.99
CO	0.37 lb/million Btu	9.10	39.87

5. This source shall meet the applicable requirements of 40 CFR Subpart WWW, NSPS for Municipal Solid Waste Landfills upon adoption by the Florida Department of Environmental Protection; 40 CFR 60.18, General Control Device Requirements; Chapters 62-209 through 297 and 62-4, F.A.C.

6. Compliance with the visible emissions standard shall be determined using EPA Method 22 and shall be for the duration of 2 hours. Such tests shall be conducted within 60 days of completion of construction and initial startup operation, and annually thereafter. The required visible emissions test report shall also contain the gas flow rate from the extraction wells and the flare temperature data.

7. Sulfur content of the input gas to any flare shall not exceed 0.65 pounds per hour.

Mr. David B. Lowe
Page Two
February 20, 1996

8. An analysis shall be performed to determine the sulfur content of input gas to the flare, by the American Society for Testing and Materials (ASTM) test method, D 1072-90, prior to any flare startup. Additional tests shall be performed on a yearly basis, and results included as part of the facility's annual operating report.

9. Pursuant to Rule 62-296.320(2), F.A.C., Objectionable Odors caused by these sources are prohibited.

10. Total volumetric flow to any flare in the system shall be limited to 900 scfm. Total volumetric flow to the aggregate of the two flares shall be limited to 1800 scfm.

11. Proper devices shall be installed at all wellheads, and at the flare station for 1) gas flow volume and gas pressure measurements, 2) gas composition analysis, 3) gas temperature and flame temperature recording, and 4) flow control, prior to the collection and disposal of the active landfill gases. Such devices shall be properly calibrated and maintained at all times, according to manufacturers' written instructions. The checking and recording of the gas flow, temperature, and pressure, shall be performed on a quarterly basis for all wells and on a monthly basis for the flare station.

The permittee shall keep a hard copy of the gas extraction monitoring and analysis data, as well as instrumentation history records, on site at all times. The data shall be summarized and included as part of the facility's annual operating report. These sources shall comply with recording and recordkeeping requirements specified in 40 CFR 60 Subpart WWW, NSPS for Municipal Solid Waste Landfills.

12. The net heating value of the input gas shall be 200 Btu/scf or greater. Compliance with this parameter shall be determined by methodology specified in paragraph f of 40 CFR 60.18. Samples shall be taken, and results reported annually.

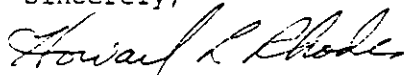
13. Actual exit velocity of each flare shall be calculated and reported on an annual basis, using methods specified in paragraph f of 40 CFR 60.18.

14. The Southeast District office shall be given at least 15 days written notice prior to compliance testing.

15. Prior to placing the flare in service, the pilot gas for the flare shall be fired by propane at 25 scfh (standard cubic feet per hour). The pilot light is not required when the flame is sustained by the landfill gas alone.

A copy of this letter shall be filed with the PSD-FL-108, and shall become a part of the permit.

Sincerely,



Howard L. Rhodes
Director
Division of Air Resources
Management

HLR/th/t

cc: J. Kahn, SED
J. Bunyak, NPS
A. Makled, P.E.
J. Harper, EPA
H. Owen, PPS
J. Koerner, PBCHU

Attachments available upon request:

Application to construct/modify the NCRRF facility submitted on August 11, 1995.

Additional correspondence submitted on October 30, November 3 and December 4, 1995.

Is your RETURN ADDRESS completed on the reverse side?

SENDER: <ul style="list-style-type: none"> Complete items 1 and/or 2 for additional services. Complete items 3, and 4a & b. Print your name and address on the reverse of this form so that we can return this card to you. Attach this form to the front of the mailpiece, or on the back if space does not permit. Write "Return Receipt Requested" on the mailpiece below the article number. The Return Receipt will show to whom the article was delivered and the date delivered. 		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.
3. Article Addressed to: <i>David B. Lowe Solid Waste Authority of Palm Beach 7501 N. 80th Rd West Palm Bch, FL 33412</i>	4a. Article Number <i>2 127 633 170</i>	
5. Signature (Addressee) <i>[Signature]</i>		4b. Service Type <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
6. Signature (Agent)		7. Date of Delivery <i>2/23/96</i>
8. Addressee's Address (Only if requested and fee is paid)		

Thank you for using Return Receipt Service.

2 127 633 170



Receipt for Certified Mail

No Insurance Coverage Provided
 Do not use for International Mail
 (See Reverse)

PS Form 3800, March 1993

Sent To	<i>David Lowe</i>	
Street and No.	<i>Solid Waste Auth.</i>	
P.O., State, and ZIP Code	<i>of PBC</i>	
Postage	<i>West Palm Beach</i>	
Certified Fee		<i>FL</i>
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to Whom & Date Delivered		
Return Receipt Showing to Whom, Date, and Addressee's Address		
TOTAL Postage & Fr.		\$
Postmark or Date	<i>2-21-96</i>	
	<i>PSD-FL-108(B)</i>	



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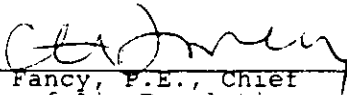
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Kuni Jones 2-21-96
Clerk Date

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H. Oven, PPS
A. Makled, P.E.
J. Koerner, PBCHU

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

FINAL DETERMINATION

North County Resource Recovery Facility (NCRRF)
PSD-FL-108(B)
Solid Waste Authority of Palm Beach County

This permit amendment will add new specific conditions to the above referenced PSD permit applicable to the North County Resource Recovery Facility (NCRRF) of Palm Beach County. The new specific conditions will allow the installation of a landfill collection system and flares to control volatile organic compound (VOC) and odorous emissions from the Class I and Class III landfills at the NCRRF. Emissions from the combustion of landfill gases will not exceed the PSD significance levels for carbon monoxide, sulfur dioxide, and nitrogen oxides.

The permit amendment was distributed on December 22, 1995. The Notice of Intent to Issue was published by the applicant in The Palm Beach Post on January 19, 1996. Copies of the permit amendment evaluation were available for inspection at the office of the Division of Environmental Science and Engineering, Palm Beach County Public Health Unit and the offices of the Department of Environmental Protection in West Palm Beach and Tallahassee.

Comments were submitted by Alex Makled, Professional Engineer-of-Record, of Camp, Dresser & McKee (CDM) during the public notice period. Mr. Makled requested to change the sulfur content in the input gas from 0.045 to 0.65 lb/hr for the purpose of calculating potential emissions in Specific Condition No. 7., to increase the emission rate of VOC to 97.2 lb/hr and to revise Specific Condition No. 11 to reflect recording of data in a quarterly basis instead of a weekly basis. In addition, they also requested to delete Specific Conditions No. 14 and 17 since the Solid Waste Authority is currently preparing the Title V permit application for their waste to energy facility. The Title V permit application will include the emissions from the landfills gas system flares.

The Department considered their requests and agree to the changes as proposed except for the increase of VOC emissions to 97.2 lb/hr. The proposed LFG collection system will be installed to destroy the quantities of nonmethane organic compounds (NMOCs) by 98% by weight. Specific Condition No. 7 will change the sulfur content of the input gases to 0.65 lb per hour. Specific Condition No. 11 will reflect the recording of data on a quarterly basis instead of a weekly basis. Specific Condition No. 14 and 17 will be deleted. The permit specific conditions will be renumbered accordingly.

The final action of the Department is to issue the permit amendment as noted during the public notice period except for the changes discussed above.



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February 20, 1996

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Solid Waste Authority of
Palm Beach County
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PSD-FL-108(B), Solid Waste Authority of Palm Beach County

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4. For inventory purposes, the pollutant emission rates from each of the flare systems are:

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"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Mr. David B. Lowe
Page Two
February 20, 1996

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A copy of this letter shall be filed with the PSD-FL-108, and shall become a part of the permit.

Sincerely,



Howard L. Rhodes
Director
Division of Air Resources
Management

HLR/th/t

cc: J. Kahn, SED
J. Bunyak, NPS
A. Makled, P.E.

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Attachments available upon request:

Application to construct/modify the NCRRF facility submitted on August 11, 1995.

Additional correspondence submitted on October 30, November 3 and December 4, 1995.

al

TO: Howard L. Rhodes

THROUGH: Clair Fancy *CAF*

FROM: A. A. Linero *aa* 2/14
Teresa Heron *TH*

DATE: February 14, 1996

SUBJECT: Modification of Permit PSD-FL-108(B)
Solid Waste Authority of Palm Beach County
North County Resource Recovery Facility (NCRRF)

Attached is a letter modifying a construction permit for this facility. The modification consists of the installation of a landfill gas collection system to control VOC's and odorous emissions from the Class I and Class II landfills at the NCRRF.

Two flares will be installed in accordance with the proposed New Source Performance Standards for landfills (40 CFR 60 Subpart WWW). The two flares are identical units. The landfill gas collection systems are similar in concept. The potential emissions of combustion products from each emission unit are less than the PSD significant level.

I recommend your approval and signature.

TH/kt

Attachments