

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

In Re: Palm Beach County Resource )  
Recovery Facility Modification of )  
Conditions of Certification PA 84-20C ) OGC CASE NO 94-2824.  
Palm Beach County, Florida )  
\_\_\_\_\_ )

**FINAL ORDER MODIFYING**  
**CONDITIONS OF CERTIFICATION**

On July 29, 1986, the Governor and Cabinet, sitting as the Siting Board, issued a final order approving certification for the Palm Beach County Solid Waste Authority's Palm Beach County Resource Recovery Facility. That certification order approved the construction and operation of a 75 MW, municipal waste-fired facility and associated facilities located in Palm Beach County, Florida.

On August 11, 1995, Palm Beach County Solid Waste Authority (SWA) filed a request to amend the conditions of certification pursuant to Section 403.516(1)(b), Florida Statutes (F.S.). The SWA requested that the conditions be modified to approve the installation of a landfill gas collection and flaring system within the site boundary.

Copies of SWA's proposed modification were made available for public review in September, 1995. On September 22, 1995, a Proposed Modification of Power Plant Certification was published in the Florida Administrative Weekly. As of September 19, 1995, all parties to the original proceeding had received copies of the intent to modify. The notice specified that a hearing would be held if a party to the original certification hearing objects within 45 days from receipt of the proposed

notice of modification or if a person whose substantial interests will be affected by the proposed modification objects in writing within 30 days after issuance of the public notice. Written objections to the proposed modifications were not received by the Department. Accordingly, in the absence of any timely objection,

**IT IS ORDERED:**

The proposed changes to the Palm Beach County Solid Waste Authority's Resource Recovery Facility as described in the August 11, October 30, November 3 and December 4, 1995, requests for modification are APPROVED. Pursuant to Section 403.516(1)(b), F.S., the conditions of certification for the Palm Beach County Resource Recovery Facility are

**MODIFIED** as follows:

Condition XIV.A. 6. Landfill Gas Collection and Flare System

- a. This source shall be allowed to operate continuously (i.e., 8760 hours per year.
- b. 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 97% level of destruction of total hydrocarbons with a flame temperature of at or above 1400° F.
- c. 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.

d. For inventory purposes, the pollutant emission rates from each of the flare systems

are:

<u>EMISSION RATE</u>			
<u>Pollutant</u>	<u>Emission Factors</u>	<u>Pounds/Hour</u>	<u>Tons/Year</u>
<u>NOx</u>	<u>0.07 lb/million Btu</u>	<u>1.67</u>	<u>7.33</u>
<u>VOC</u>	<u>36 LB/millions ft<sup>3</sup></u>	<u>1.94</u>	<u>8.51</u>
<u>SO2</u>	<u>0.002 lb/scf</u>	<u>1.67</u>	<u>1.33</u>
<u>PM<sub>10</sub></u>	<u>1.69 E-05 lb/scf</u>	<u>0.91</u>	<u>3.99</u>
<u>CO</u>	<u>0.37 lb million Btu</u>	<u>9.10</u>	<u>39.87</u>

e. 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.

f. 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.

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

h. 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 operation report.

i. Pursuant to Rule 62-296.320 (2) , F.A.C., objectionable odors caused by these sources are prohibited.

j. 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.

k. 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 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 record keeping requirements specified in 40 CFR 60 Subpart WWW, NSPS for Municipal Solid Waste Landfills.

l. 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.

m. 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.

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

o. 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.

#### **NOTICE OF RIGHTS**

Any party to this Notice has the right to seek judicial review of the Order Pursuant to

Section 120.68, Florida Statutes, by the filing of Notice Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department of Environmental Protection in the Office of General Counsel, 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 of Appeal must be filed within 30 days from the date that the Final Order is filed with the Department of Environmental Protection.

DONE AND ENTERED this 27<sup>TH</sup> day of March, 1996 in Tallahassee, Florida.

**FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to S120.52  
Florida Statutes, with the designated  
Department Clerk, receipt of which  
is hereby acknowledged.**

*Shirley B...* 3/29/96  
Clerk Date

**STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION**

*Virginia B. Wetherell*  
for VIRGINIA B. WETHERELL  
SECRETARY  
3900 Commonwealth Boulevard  
Tallahassee, FL 32399-3000

CERTIFICATE OF SERVICE

I DO HEREBY certify that a true and correct copy of the foregoing has been sent by U.S. Mail to the following listed persons on April 1, 1996.

Karen Brodeen, Esquire  
Department of Community Affairs  
2740 Centerview Drive  
Tallahassee, FL 32399-2100

Paul R. Golis, Esquire  
Watterson Hyland, Baird & Klett  
Prosperity Gardens, Suite 112  
11380 Prosperity Farms Road  
Palm Beach Gardens, FL 33410

Roger G. Saberson, Esquire  
Treasure Coast Regional Planning  
Council  
70 SE 4th Ave.  
Delray, FL 33483-4514

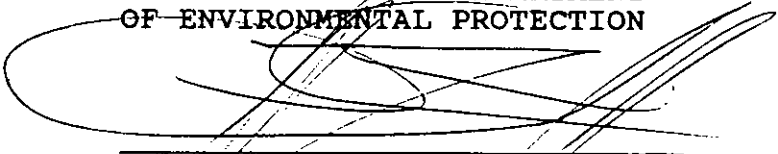
Bob Elias, Esquire  
Florida Public Service Commission  
2540 Shumard Oak Blvd.  
Tallahassee, FL 32399-0850

Toni M. Leidy, Esquire  
South Florida Water  
Management District  
P.O. Box 24680  
West Palm Beach, FL 33416-4680

Joel T. Daves III, Esquire  
Burdick & Daves  
P.O. Box 790  
West Palm Beach, FL 33402

Terrell K. Arline, Esquire  
325 Clematis Street  
Suite C  
West Palm Beach, FL 33401

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



Charles T. "Chip" Collette  
Assistant General Counsel

3900 Commonwealth Blvd.  
M.S. 35  
Tallahassee, FL 32399-3000

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

In Re: City of Lake Worth Utilities            )  
Department Unit S-5 Modification of        )  
Conditions of Certification Palm Beach        )  
County, Florida, PA 74-05B                    )  
\_\_\_\_\_  /

OGC NO. 96-0860

**FINAL ORDER MODIFYING**  
**CONDITIONS OF CERTIFICATION**

On May 18, 1976, the Governor and Cabinet, sitting as the Siting Board, issued a final order approving certification for the City of Lake Worth Utilities Department's Tom G. Smith Municipal Power Plant Unit S-5. That certification order approved the construction and operation of a 29.5 MW, oil-fired, steam electric generating facility located in Palm Beach County, Florida.

On September 22, 1993, The City of Lake Worth's utility Department filed a request for a determination of Reasonably Available Control Technology (RACT) for the control of Nitrogen Oxides (NOx) pursuant to Florida Administrative Code Rule 62-96.570. On January 31, 1996, the Department of Environmental Protection determined the NOx RACT for the power plant. Such a determination acts as an automatic modification of the Conditions of Certification pursuant to section 403.511(5)(a), F.S.

**IT IS ORDERED:**

Pursuant to Section 403.511(5)(a), F.S., the conditions of certification for the City of Lake Worth Utilities Department's Tom G. Smith Municipal Power Plant Unit S-5 are

**MODIFIED** as follows:

Condition I. 7. The permittee shall comply with the following emission standards for NOx.

a. Emissions of NOx from unit GT-2/S-5 shall not exceed 0.50 lb./million BTU while firing natural gas and 0.90 lb./million Btu while firing fuel oil.

b. Compliance for unit GT-2/S-5 shall be demonstrated by annual emission testing in accordance with EPA Test Method 7E. Emission testing shall be completed by February 28th of each year. Annual compliance testing while firing oil is not required for units that operated on oil for less than 400 hours in the previous federal fiscal year (ending September 30th). The permittee shall submit to the Palm Beach County Public Health Unit, Air Section, and to the Department of Environmental Protection, Southeast District Office, Air Program, written confirmation that testing while firing oil is not required, in lieu of submitting an emission test report for each unit that is not tested each year.

c. All required emission testing shall be performed no later than February 28th of each year, except for units that are not operating because of scheduled maintenance outages and emergency repairs, which will be tested within thirty days of return to service.

d. Compliance testing shall be conducted with the emission units operating at the permitted capacity (90 to 100% of the maximum permitted operation rate of the emission units). If an emission's unit is not tested at permitted capacity, the emission unit shall not be operated above 110% of the test load until a new test showing compliance is conducted. Operation of the emissions unit above 110% of the test load is allowed for no more than 15 days for the purpose of conducting additional compliance testing to regain the authority to operate at the permitted capacity. [F.A.C. Rule 62-297.310 (2)]



**NOTICE OF RIGHTS**

Any party to this Notice has the right to seek judicial review of the Order Pursuant to Section 120.68, Florida Statutes, by the filing of Notice Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department of Environmental Protection in the Office of General Counsel, 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 of Appeal must be filed within 30 days from the date that the Final Order is filed with the Department of Environmental Protection.

DONE AND ENTERED this 27<sup>th</sup> day of March, 1996 in Tallahassee, Florida.

**STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION**

**FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to S120.52  
Florida Statutes, with the designated  
Department Clerk, receipt of which  
is hereby acknowledged.**

[Signature] 3/29/96  
Clerk Date

[Signature]  
VIRGINIA B. WETHERELL  
SECRETARY  
3900 Commonwealth Boulevard  
Tallahassee, FL 32399-3000

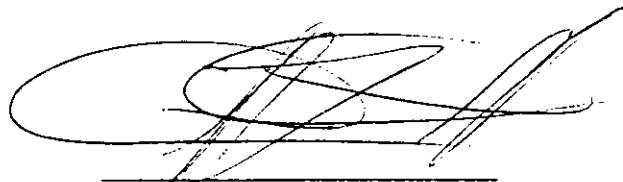
CERTIFICATE OF SERVICE

I hereby certify that a copy of the Final Order Modifying Conditions of Certification of the City of Lake Worth Utilities was sent to the following parties by United States mail on the 1<sup>st</sup> day of April, 1996.

Karen Brodeen, Esquire  
Department of Community Affairs  
2740 Centerview Drive  
Tallahassee, Florida 32399-2100

Bob Elias, Esquire  
Florida Public Service Commission  
Gerald L. Gunter Building  
2540 Shumard Oak Blvd.  
Tallahassee, Florida 32399-0850

Mr. Harvey Wildscheutz, Director  
City of Lake Worth Utilities Department  
1900 2nd Avenue North  
Lake Worth, Florida 33461-4298



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