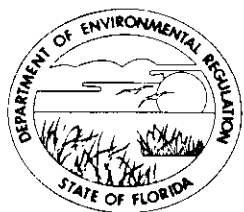


File

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT

Mr. Walt Walters, President
NRG Recovery Group
1616 Athens Street
Lakeland, Florida 33803

February 24, 1988

Enclosed is permit No. AC 35-115379, PSD-FL-113, for Lake County Waste to Energy Facility NRG Recovery Group to construct two 250 tons per day (design capacity) municipal solid waste fired combustors which will generate steam and produce nominally 12.3 megawatts of electricity. The proposed waste recovery facility will be located on Jim Rogers Road, Okahumpka, Lake County, Florida. This permit is issued pursuant to Section 403, Florida Statutes.

Any Party to this permit has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the 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 30 days from the date this permit is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management

Copy furnished to:

Tom Sawicki, CF Dist.
Barry Andrews, DER
Tom Rogers, DER
Wayne Aronson, EPA

Miguel Flores, NPS
R.V. Chalfant, LGM
Dan Robuck, Esq.

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. 2. Restricted Delivery

3. Article Addressed to
 Mr. Walt Walters, President
 NRG Recovery Group
 1616 Athens Street
 Lakeland, FL 33803

4. Article Number
 P 274 010 113

Type of Service
 Registered Insured
 Certified COD
 Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

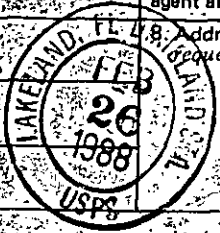
5. Signature - Addressee
 X *Walt Walters*

6. Signature - Agent
 X

7. Date of Delivery

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Feb. 1986 DOMESTIC RETURN RECEIPT



P 274 010 113

RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

* U.S.G.P.O. 1985-480-794
 PS Form 3800, June 1985

Mr. to Walt Walters, Pres.	
NRG Recovery Group	
Street and No. 1616 Athens Street	
P.O., State and ZIP Code Lakeland, FL 33803	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom Delivered and Address of Sender	
TOTAL Postage and Fees	

Mailed: 02/24/88
 Permit: AC 35-115379
 Federal: PSD-FL-113

Final Determination
For Amended Permit Conditions

Lake County Waste to Energy Facility
Lake County
Okahumpka, Florida

Waste to Energy Units 1 and 2

Permit Numbers:
AC 35-115379
PSD-FL-113

Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting

February 12, 1988

The Orlando Sentinel

Published Daily
Tavares, Lake County, Florida

DER

ADVERTISING CHARGE \$10.03

State of Florida }
COUNTY OF ORANGE }

JAN 13

BAQM

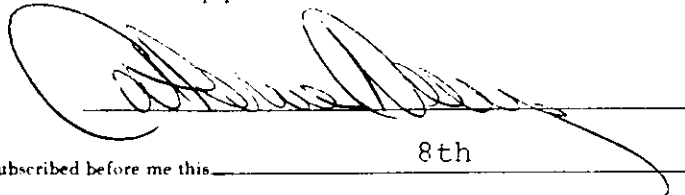
Before the undersigned authority personally appeared Catherine Deering who on oath says that

she is the Legal Advertising Representative of The Orlando Sentinel a Daily newspaper published at Tavares, in Lake County, Florida; that the attached copy of advertisement, being a Notice in the matter of


Amended Permit to Lake County Waste to Energy Facility in the _____ Court.

was published in said newspaper in the issues of January 7, 1988

Affiant further says that the said Orlando Sentinel is a newspaper published at Tavares, in said Lake County, Florida, and that the said newspaper has heretofore been continuously published in said Lake County, Florida, each Week Day and has been entered as second-class mail matter at the post office in Tavares in said Lake County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he/she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.



Sworn to and subscribed before me this 8th day of January A.D. 1988

NOTARY PUBLIC, State of Florida at Tavares
Commission Expires May 25, 1991
 Bonded By AMERICAN PIONEER CASUALTY INS. CO.
Nancy J. Kusia Notary Public

State of Florida
Department of
Environmental Regulation
Notice of Intent
The Department of Environmental Regulation hereby gives notice of its intent to issue an amended permit to Lake County Waste to Energy Facility, NRG Recovery Group to construct two 250 tons per day (design capacity) municipal solid waste fired combustors equipped with acid gas controls which will generate steam and produce nominally 12.3 megawatts of electricity. The proposed waste recovery facility will be located on Jim Rogers Road, Okahumpka, Lake County, Florida. The Department is issuing this intent to issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.
Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative determination (hearing) in accordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Failure to file a petition within this time period constitutes a waiver of any right such person has to request an administrative determination (hearing) under Section 120.57, Florida Statutes.
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 proposed agency action. Therefore, persons who may not wish to file a petition may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Rule 28-5.207, Florida Administrative Code, at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2005 Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.
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: Dept. of Environmental Regulation, Bureau of Air Quality Management, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, Dept. of Environmental Regulation, Central Florida District Office, 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803-3767.
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.
LK-733 Jan. 7, 1988

AD-261

Final Determination

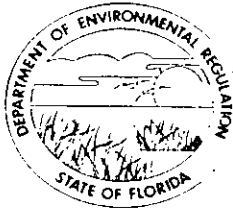
NRG/Recovery Group's application to construct the Lake County Waste to Energy Facility in Okahumpka, Lake County, Florida has been reviewed by the Department. Public Notice of the Department's Intent to Issue the permit was published in the Orlando Sentinel on January 7, 1988.

Comments were received from EPA and the National Park Service, both agreeing with the technical review.

The final action of the Department will be to issue the permit as proposed in the Preliminary Determination.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

PERMITTEE:
NRG/Recovery Group
1616 Athens Street
Lakeland, Florida 33803

Permit Number: AC 35-115379 (Amended)
Expiration Date: May 31, 1991
County: Lake
Latitude/Longitude: 28° 44' 22"N
81° 53' 23"W
Project: Lake County Waste to Energy
Facility Units 1 and 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 construction of two (2) 250 ton per day combustors which will be fueled by municipal solid waste and wood chips.

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

This revised permit shall replace previous permit(s) issued for the construction of this facility.

Attachments are as follows:

1. Application to Construct an Air Pollution Source, DER Form 17-1.202(1), as modified, dated October 21, 1987.
2. EPA's letter dated October 28, 1987.

PERMITTEE:
NRG/Recovery Group

Permit Number: AC 35-115379
Expiration Date: May 31, 1991

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

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. Nor 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 does not constitute 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, 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:
NRG/Recovery Group

Permit Number: AC 35-115379
Expiration Date: May 31, 1991

GENERAL CONDITIONS:

6. The permittee shall at all times 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring 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 notify and provide the department with the following information:

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

PERMITTEE:
NRG/Recovery Group

Permit Number: AC 35-115379
Expiration Date: May 31, 1991

GENERAL CONDITIONS:

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 revocation of this permit.

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 arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

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 monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
NRG/Recovery Group

Permit Number: AC 35-115379
Expiration Date: May 31, 1991

GENERAL CONDITIONS:

- b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) 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 submitted or corrected promptly.

SPECIFIC CONDITIONS:

1. Municipal Waste Combustor

- a. Each of the two municipal waste combustors (MWC) shall have a design rated capacity of 250 tons Municipal Solid Waste (MSW) per day, 104 million Btu input per hour and 60,200 pounds steam output per hour with MSW having a heating value of 5,000 Btu per pound.
- b. The maximum individual MWC throughput shall not exceed 288 tons per day, 120 million Btu per hour and 69,000 pounds steam per hour, (3-hour average).

PERMITTEE:
NRG/Recovery Group

Permit Number: AC 35-115379
Expiration Date: May 31, 1991

SPECIFIC CONDITIONS:

- c. The design 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 115% of design rated capacity.
 - e. The MWC shall be fueled with municipal solid waste or wood chips. Other wastes shall not be burned without specific prior written approval of Florida DER.
 - f. Auxiliary fuel burners shall be fueled only with distillate fuel oil or gas (e.g., natural or propane). The annual capacity factor for fuel oil or gas shall be less than 10%, as determined by 40 CFR 60.43b(d). If the annual capacity factor for fuel oil or gas is greater than 10%, the facility shall be subject to 40 CFR 60.44b, standards for nitrogen oxides.
 - g. Auxiliary fuel burner(s) 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).
2. Air Pollution Control Equipment Design
- a. Each MWC shall be equipped with a particulate emission control device.
 - b. Each MWC shall be equipped with an acid gas control device designed to remove at least 90% of acid gases and 70% sulfur dioxide emissions.
 - c. The acid gas emission control system shall be designed to be capable of cooling flue gases to an average temperature not exceeding 300°F (3-hour rolling average).
3. Flue gas emissions from each unit shall not exceed the following:

- a. Particulate: 0.0150 grains/dscf corrected to 12% CO₂
- b. Sulfur Dioxide: 60 ppm_{dv} corrected to 12% CO₂, 6-hour rolling average;

PERMITTEE:
NRG/Recovery Group

Permit Number: AC 35-115379
Expiration Date: May 31, 1991

SPECIFIC CONDITIONS:

or

70% reduction of uncontrolled SO₂ emissions, 6-hour rolling average. Not to exceed 120 ppmdv corrected to 12% CO₂, 6-hr rolling average.

- c. Nitrogen Oxides: 385 ppmdv corrected to 12% CO₂.
- d. Carbon Monoxide: 200 ppmdv corrected to 12% CO₂, 4-hr rolling average.
- e. Volatile Organic Compounds: 70 ppmdv as carbon corrected to 12% CO₂.
- f. Lead: 3.1×10^{-4} gr/dscf corrected to 12% CO₂.
- g. Fluoride: 1.5×10^{-3} gr/dscf corrected to 12% CO₂.
- h. Beryllium: 2.0×10^{-7} gr/dscf corrected to 12% CO₂.
- i. Mercury: 3.4×10^{-4} gr/dscf corrected to 12% CO₂.
- j. Visible Emissions: Opacity of MWC emissions shall not exceed 15% opacity (6-min. average), except for one 6-min. period per hour of not more than 20% opacity. Excess emissions resulting from startup, shut down, or malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to, and the duration of excess emissions are minimized.

For each pollutant for which a continuous emissions monitoring system is required in Condition No. 5, the emission averaging time specified above shall be used to establish operating limits and reportable excess emissions.

PERMITTEE:
NRG/Recovery Group

Permit Number: AC 35-115379
Expiration Date: May 31, 1991

SPECIFIC CONDITIONS:

Compliance with the permit emission limits shall be determined by EPA reference method tests included in 40 CFR Parts 60 and 61 and listed in Condition No. 4 of this permit or by equivalent methods approved by Florida DER.

For the purpose of establishing specific increment consumption for TSP and SO₂ at the facility, an hourly emission rate shall be established for each pollutant at the time of performance testing using flue gas flow rates (corrected to 12% CO₂ and prorated to 115% rated furnace capacities) and the applicable concentration limits established above for TSP and SO₂. Projected emissions are listed below:

Pollutant	Limit ppm or gr/dscf (a)	Projected Emissions	
		@ 100% lb/hr(1) (b)	@ 115% lb/hr (c)
Particulate	0.015 gr/dscf	3.3	3.8
SO ₂ (²)	60 ppmdv 120 ppmdv	15.5 31.0	17.8 35.6
NOx	385 ppmdv	71.8	82.5
CO	200 ppmdv	22.7	26.1
VOC	70 ppmdv	3.4	3.9
Lead	3.1 x 10 ⁻⁴ gr/dscf	0.069	0.079
Fluoride	1.5 x 10 ⁻³ gr/dscf	0.33	0.38
Beryllium	2.0 x 10 ⁻⁷ gr/dscf	4.5 x 10 ⁻⁵	5.1 x 10 ⁻⁵
Mercury	3.4 x 10 ⁻⁴ gr/dscf	0.076	0.087
H ₂ SO ₄		<0.42	<0.42

1. Conversion from concentration to mass emission rate assumes F_c = 1,800 scf CO₂/10⁶ Btu for MSW fuel.
2. Proposed SO₂ limit: 60 ppm maximum expected emission.
120 ppm maximum allowed after 70% control without permit revision.
Existing permit: 29.2 lb/hr 30-day rolling average 58.4 lb/hr short term maximum.

PERMITTEE:
NRG/Recovery

Permit Number: AC 35-115379
Expiration Date: May 31, 1991

SPECIFIC CONDITIONS:

The units are subject to 40 CFR Part 60, Subpart E, and Subpart Db, New Source Performance Standards (NSPS), except that where requirements within the permit are more restrictive, the requirements of the permit shall apply.

4. Compliance Tests

- a. Initial compliance tests for particulate matter, SO₂, 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 test(s) for particulate matter and nitrogen oxides shall be performed. Test(s) may be performed in the common stack.
- c. Compliance with the opacity standard shall be determined in accordance with 40 CFR 60.11(b) and (e).
- d. Compliance with the requirement for 70% control of sulfur dioxide emissions will be determined by using the test methods in Condition 4.f. below or a continuous emission monitoring system for SO₂ emissions before and after the air pollution control equipment which meets the requirements of Performance Specification 2 of 40 CFR 60, Appendix B.
- e. The compliance tests shall be conducted at the maximum capacity and at the maximum firing rate of each permitted fuel.
- f. The following test methods and procedures of 40 CFR Parts 60 and 61 or equivalent methods having prior approval of Florida DER 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 O₂ and CO₂.
 - (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 concentration of particulate matter.

PERMITTEE:
NRG/Recovery

Permit Number: AC 35-115379
Expiration Date: May 31, 1991

SPECIFIC CONDITIONS:

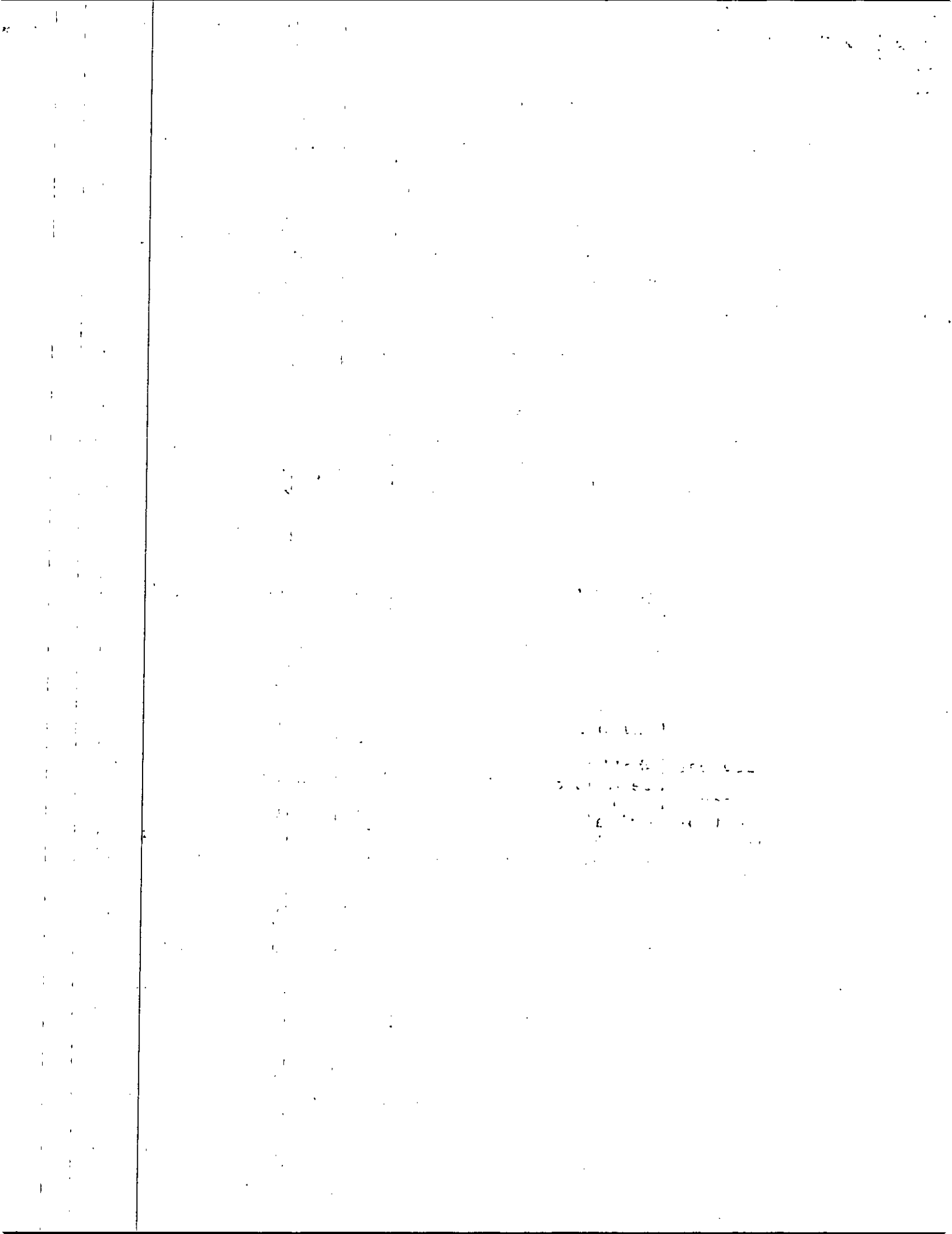
- (6) Method 9 for visible determination of the opacity of emissions as required in this permit in accordance with 40 CFR 60.11.
- (7) Method 6, 6C, or 8 for concentration of SO₂.
- (8) Method 7, 7A, 7B, 7C, 7D, or 7E for concentration of nitrogen oxides.
- (9) Method 10 for determination of CO concentration.
- (10) Method 12 for determination of lead concentration.
- (11) Method 13B for determination of fluoride concentrations.
- (12) Method 25 or 25A for determination of VOC concentration.
- (13) Method 101A for determination of mercury emission rate.
- (14) Method 104 for determination of beryllium emission rate.

5. Continuous Emission Monitoring

Continuous emission monitors for opacity, oxygen, carbon monoxide, carbon dioxide, and sulfur dioxide 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. The SO₂ CEMS sample point shall be located downstream of control devices for each unit.
- b. CEMS data shall be recorded during periods of startup, shutdown and malfunction but shall be excluded from emission averaging calculations for CO, SO₂, and opacity.

(15) The permittee shall submit HCl test method for Department approval prior to testing.



PERMITTEE:
NRG/Recovery

Permit Number: AC 35-115379
Expiration Date: May 31, 1991

SPECIFIC CONDITIONS:

- 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.
- 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. Average CO and SO₂ emission concentrations, corrected for CO₂, shall be computed in accordance with the appropriate averaging time periods included in Condition No. 3.
- 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. 5 herein, which exceeds the applicable emission limit in Condition No. 3.

6. 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 acid gas 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 115% 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.

7. Reporting

- a. Fifteen (15) days prior notification of compliance test shall be given to the Florida DER district office.

PERMITTEE:
NRG/Recovery

Permit Number: AC 35-115379
Expiration Date: May 31, 1991

SPECIFIC CONDITIONS:

- b. The results of compliance test shall be submitted to the Florida DER 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:
 - (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)).

PERMITTEE:
NRG/Recovery

Permit Number: AC 35-115379
Expiration Date: May 31, 1991

SPECIFIC CONDITIONS:

8. The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, the Department must be notified in writing 60 days prior to the expiration of the construction permit and submit a new schedule and request for an extension of the construction permit, (Rule 17-2, FAC).

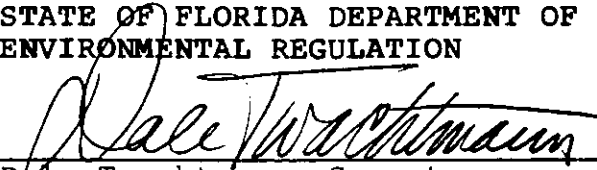
To obtain a permit to operate, the permittee must demonstrate compliance with the conditions of the construction permit and submit a complete application for an operating permit, including the application fee, along with compliance test results and Certificate of Completion, to the Department's District office 90 days prior to the expiration date of the construction permit. The permittee may continue to operate in compliance with all terms of the construction permit until its expiration date. Operation beyond the construction permit expiration date requires a valid permit to operate. (Rules 17-2 and 17-4, FAC).

If the construction permit expires prior to the permittee requesting an extension or obtaining a permit to operate, then all activities at the project must cease and the permittee must apply for a new permit to construct which can take up to 90 days to process a complete application. (Rule 17-4, FAC)

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

Issued this 19 day of Feb., 1988

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


Dale Twachtmann, Secretary