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BUREAU OF
AIR REGULATION



The *Reliable* One

January 25, 1999

Mr. Mike Halpin
Florida Department of Environmental Protection
Division of Air Resources Management
Mail Station No. 5505
2600 Blairstone Road
Tallahassee, FL 32399-2400

Re: Stanton Energy Center - Title V Permit

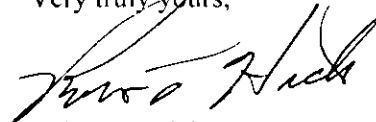
Dear Mr. Halpin:

I have reviewed the SEC Title V Permit with Denise Scarlett and have identified the following minor inconsistencies within the permit which should be corrected prior to the issuance of the final permit.

- Page 2 Subsection A - the nameplate rating for both SEC-1 and SEC-2 should be 468MW.
- Page 6 Section III - Subsection A - nominal megawatt number for both units should be 468 MW and the maximum heat input for SEC 1 was changed to 4286 MMBTU in the modification to the conditions of certification granted in December 1998.
- Page 8 A.9. - Unit 1 has SO₂ limits of 1.2 lb/MMBTU 30 day rolling average; 1.2 lb/MMBTU 2 hour average as well as the 1.14 lb/MMBTU standard listed.
- Page 20 Subsection B - B.3 - the limit of 150 hour of hour of operation for the auxiliary boiler is acceptable as written.
- Table 2-1 Neither SEC-1 or SEC 2 have or are required to have a CMS for particulate.

If you have any questions, please call me at 407/423-9133.

Very truly yours,



Robert F. Hicks
Sr. Environmental Engineer

RFH:rc

xc: A. C. Frazier
D. M. Scarlett

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Just the fax

Date: 3/31/99 Time Sent: _____ Total Number of Pages: 10

Send to: Name MIKE HALPIN

Company FDEP

Fax Number 850/922-6979

From: Name BOB HICKS Tel. Number 407/423-9133

Comments: Mike -

Sony, I believe this is the mod you need - If have any question, please call me at 407/423-9133

Bob

If there are any problems with receiving this fax, please call (407) 423-9100, ext. 2057.

Orlando Utilities Commission
P.O. Box 3193
Orlando, FL 32802



Phone Number: (407) 423-9100

Fax Number: (407) 236-9616

**BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

In Re: Orlando Utilities Commission) Stanton Energy Center) Modification of Conditions) of Certification) Orange County, Florida)	DEP CASE NOS. PA 81-14C & PA 81-14SA OGC CASE NOS. 81-0145 & 91-0769
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**FINAL ORDER MODIFYING
CONDITIONS OF CERTIFICATION**

On December 14, 1982, the Governor and Cabinet, sitting as the Siting Board, issued a final order approving certification for the Orlando Utilities Commission (OUC) Stanton Energy Center Unit 1. On December 17, 1991, the Siting Board issued a final order approving certification for the OUC Stanton Energy Center Unit 2. Those certification orders approved the construction and operation of two 465 MW (net) coal fired units and associated facilities in Orange County, Florida.

On September 20, 1997, OUC filed a request to modify the Stanton Energy Center Site. On November 13, 1997, OUC filed additional information relating to their request to amend the conditions of certification pursuant to Section 403.516(1)(b), Florida Statutes. OUC requested that the conditions be modified to allow the use of landfill gas as a fuel, use of offsite fly ash combined with lime to replace onsite produced fly ash in the Flue Gas Desulfurization (FGD) process, use of onsite used oil in Units 1 and 2, a modification process for federally delegated permits, a relocation of the fleet maintenance facility, clarification of applicable federal New Source Performance Standard Regulations, and clarification of heat input numbers.

Copies of OUC's proposed modifications were made available for public review. On October 17, 1997, a Proposed Modification of Power Plant Certification was published in the Florida Administrative Weekly. As of September 30, 1997, all parties to the original proceeding had received copies of OUC's request to modify. The notice specified that a hearing would be held if a party to the original certification hearing objected within 45 days from receipt of the proposed modifications or any other affected person objected in writing within 30 days after issuance of the public notice. No written objection to the proposed modifications has been received by the Department. Accordingly, in the absence of any timely objection,

IT IS ORDERED:

The proposed changes to the OUC Stanton Energy Center Units 1 and 2 relating to use of landfill gas, used oil, purchased fly ash, and other clarifications as described in the September 20 1997, requests for modification are APPROVED. Pursuant to Section 403.516(1)(b), F.S., the Department HEREBY modifies the conditions of certification for the Stanton Energy Center as follows:

I Air

The construction and operation of Units 1 & 2 at Orlando Utilities Commission, Curtis H Stanton Energy Center (CHSEC) steam electric power plant site shall be in accordance with all applicable provisions of Chapters ~~17-2, 17-4, and 17-5~~ 62, Florida Administrative Code except for opacity, NO_x, and SO₂, which shall be governed by 40 CFR Part 60 regarding startup, shutdown, and malfunction. In addition to the foregoing, the permittee shall comply with the following conditions of certification:

A. Emissions Limitations

1. The proposed steam generating station shall be constructed and operated in accordance with the capabilities and specifications of the application including for Unit 1, a the proposed ~~465~~ 474 (gross), and Unit 2, a 474 (gross) megawatt generating capacity and the ~~4136~~ 4286 MMBtu/hr heat input rate for each steam generator. For the purpose of calculating mass stack emissions, based on a maximum heat input of 4136 million Btu per hour, stack emissions from CHSEC Unit 1 shall not exceed the following when burning coal:
 - a. SO₂ - 1.2 lb. per million BTU per heat input, maximum two hour average, and 1.14 lb/MMBtu maximum three hour average;
 - b. NO_x - 0.60 lb. per million Btu heat input, 30 day rolling average;
 - c. Particulates - 0.03 lb. per million Btu heat input, 124.1 lb. per hour;
 - d. Visible emissions - 20% opacity (6 minute average, except one 6 - minute period per hour of not more than 27% opacity).

2. Based on a maximum heat input of 4286 million Btu per hour, stack emissions from Unit 2 shall not exceed the following when burning coal:

a. SO ₂ -lb/million Btu heat input	
30 - day rolling average	0.25
24 - hour emission rate	0.67
3 - hour mission rate	0.85
b. NO _x -lb/million Btu heat input	
30 day rolling average	0.17

c. PM/PM₁₀ -lb/million Btu heat input

	lb/MMBtu	lb/hr
PM	0.02	85.7
PM ₁₀	0.02	85.7

d. CO - 0.15 lb/million Btu heat input, 643 lb/hour,

e. VOC - 0.015 lb/million Btu heat input, 64 lb/hour;

f. H₂SO₄ - 0.033 lb/million Btu heat input 140 lb/hour;g. Be - 5.2×10^{-6} lb/million Btu heat input, 0.022 lb/hour;h. Hg - 1.1×10^{-5} lb/million Btu heat input, 0.046 lb/hour;i. Pb - 1.5×10^{-4} lbs/million Btu heat input, 0.64 lb/hour;j. Fluorides - 4.2×10^{-4} lb/million Btu heat input, 1.8 lb/hour.

11/27/98
 23. The height of the boiler exhaust stacks for CHSEC Units 1 & 2 shall not be less than 550 ft. above grade.

34. Particulate emissions from the coal, lime and limestone handling facilities:

a. All conveyors and conveyor transfer points will be enclosed to preclude PM emissions (except those directly associated with the coal stacker/reclaimer or emergency stockout, and the limestone stockout for which enclosure is operationally infeasible). All coal and limestone conveyors not underground or within buildings will be enclosed (roof and sides) with steel grating or concrete floors (except the stacker/reclaimer which will have windscreen protection);

b. Inactive coal storage piles will be shaped, compacted and oriented to minimize wind erosion;

c. Water sprays or chemical wetting agents and sterilizers will be applied to storage piles, handling equipment, etc., during dry periods and as necessary to all facilities to maintain an opacity of less than or equal to 5 percent, except when adding, moving or removing coal from the coal pile, which would be allowed no more than 20%;

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 d. The limestone handling receiver hopper will be equipped with water spray dust control facilities. Limestone conveyors not underground or within buildings will be enclosed with open grating floors (except where concrete floors are provided over roads or other facilities). Limestone day silos and associated transfer points will be maintained at negative pressures during filling operations with the exhaust vented to a control system. Lime will be handled with a totally enclosed pneumatic system. Exhaust from the lime silos during filling will be vented to a collector system;

e. The fly ash handling system (including transfer and silo storage) will be totally enclosed and vented (including pneumatic system exhaust) through fabric filters; and

f. The permittee must submit to the Department within thirty (30) days after it becomes available, copies of technical data pertaining to the selected particulate control for the coal, lime and limestone handling facilities. These data should include, but not be limited to, guaranteed efficiency and emission rates, and major design parameters such as air/cloth ratio and flow rate. The Department may, upon review of these data, disapprove the use of any such device if the Department determines the selected control devices to be inadequate to meet the emission limits specified in 4.5 below. Such disapproval shall be issued within 30 days of receipt of the technical data. Any additional coal, lime, and limestone handling facilities for Stanton Unit 2 will be equipped with particulate control systems equivalent to those for Stanton Unit 1.

4.5 Particulate emissions from bag filter exhausts from the following facilities shall be limited to 0.02 gr/acf: coal, lime, limestone and flyash handling systems excluding those facilities covered by II/LA.3.c. above. A visible emission reading of 5% opacity or less may be used to establish compliance with this emission limit. A visible emission reading greater than 5% opacity will not create a presumption that the 0.02 gr/acf emission limit is being violated. However, a visible emission reading greater than 5% opacity will require the permittee to perform a stack test for particulate emissions, as set forth in Condition I.C.

5.6 Compliance with opacity limits of the facilities listed in Condition II/LA. will be determined by EPA referenced method 9 (Appendix A, 40 CFR 60).

6.7 Construction shall reasonably conform to the plans and schedule given in the original application or the supplemental application.

7.8 The permittee shall report any delays in construction and completion of the project which would delay commercial operation by more than 90 days to the DEP Central District Office in Orlando.

8.9 Reasonable precautions to prevent fugitive particulate emissions during construction shall be to coat the roads and construction sites used by contractors, and to regrass or water areas of disturbed soils.

9.10 Coal shall not be burned in the unit unless the electrostatic precipitator and limestone scrubber and other air pollution control devices are operating as designed except as provided under 40 CFR Part 60, Subpart Da.

1011. Except as noted herein, the fuel oil to be fired in Stanton Units 1 and 2 and the auxiliary boiler shall be primarily "new oil" which means an oil which has been refined from crude oil and has not been used. On-site generated lubricating oil and used fuel oil which meets the requirements of 40 CFR 266.40 may also be burned. The quality of the No. 2 fuel oil used by the auxiliary boiler shall not contain more than 0.5% sulfur by weight and cause the allowable emission limits listed in the following table to be exceeded. Such emissions may be calculated in accordance with AP-42.

a. The quality of the No. 2 fuel oil used by the auxiliary boiler shall not cause the allowable emission limits listed in the following table to be exceeded. Such emissions may be calculated in accordance with AP-42.

Allowable Emission Limits

<u>Pollutant</u>	<u>lb/MMBtu</u>
PM	0.015
SO ₂	0.51
NO _x	0.16
Visible emissions	Maximum 20% Opacity

b. Landfill gas from the Orange County Landfill may be burned in Unit No. 1 and Unit No. 2 to the extent that quantities are available provided that all emission limits contained in condition I.A.1. are met.

c. Natural gas as supplied by commercial pipeline may be burned in Unit No. 1 and Unit No. 2 to the extent that quantities are available provided that all emission limits contained in Condition I.A.1. are met.

B. No change.

C. Stack Testing

1-3. No change.

4. Stack tests for particulates, NO_x and SO₂ and visible emissions shall be performed annually in accordance with Conditions C.2 and 3 above.

XXVI. (Unit 1) Modification of Conditions

The conditions of this certification may be modified in the following manner:

A. The Board pursuant to 403.516(1), F.S., hereby delegates to the Secretary the authority to modify, after notice and opportunity for hearing, and conditions pertaining to consumptive use of water, monitoring, sampling, groundwater, mixing zones, zones of discharge, leachate control programs, effluent or emission standards or limitations, variances or exceptions to water quality standards, specification of control equipment, related time schedules, railroad spur, transmission lines, access roads, or pipeline construction, mitigation, transfer or assignment of the certification or related federally delegated permits, and source of treated effluent cooling

water, or any special studies conducted as necessary to obtain the objectives of Chapter 403, Florida Statutes, which are not in conflict with the Conditions of Certification in Part VII.

B. This certification shall be automatically modified to conform to any subsequent amendments, modifications, or renewals made by DEP to any separately issued Prevention of Significant Deterioration (PSD) permit, Title V Air Permit, or National Pollutant Discharge Elimination System (NPDES) permit for the facility under any federally delegated or approved program. OUC shall send each party to the original certification proceedings (at the party's last known address as shown in the record of the proceedings) notice of requests for modifications or renewals to the applicable federal permit if the request involves a relief mechanism (e.g. mixing zone, variance, alternate emission or discharge standard, etc.) from standards. DEP shall notify all parties to the certification proceedings of any intent to modify conditions under this section prior to taking final agency action.

C. All other modifications shall be made in accordance with Sections 403.516, Florida Statutes.

1/XXI.(Unit2) Modification of Conditions

The conditions of this certification may be modified in the following manner.

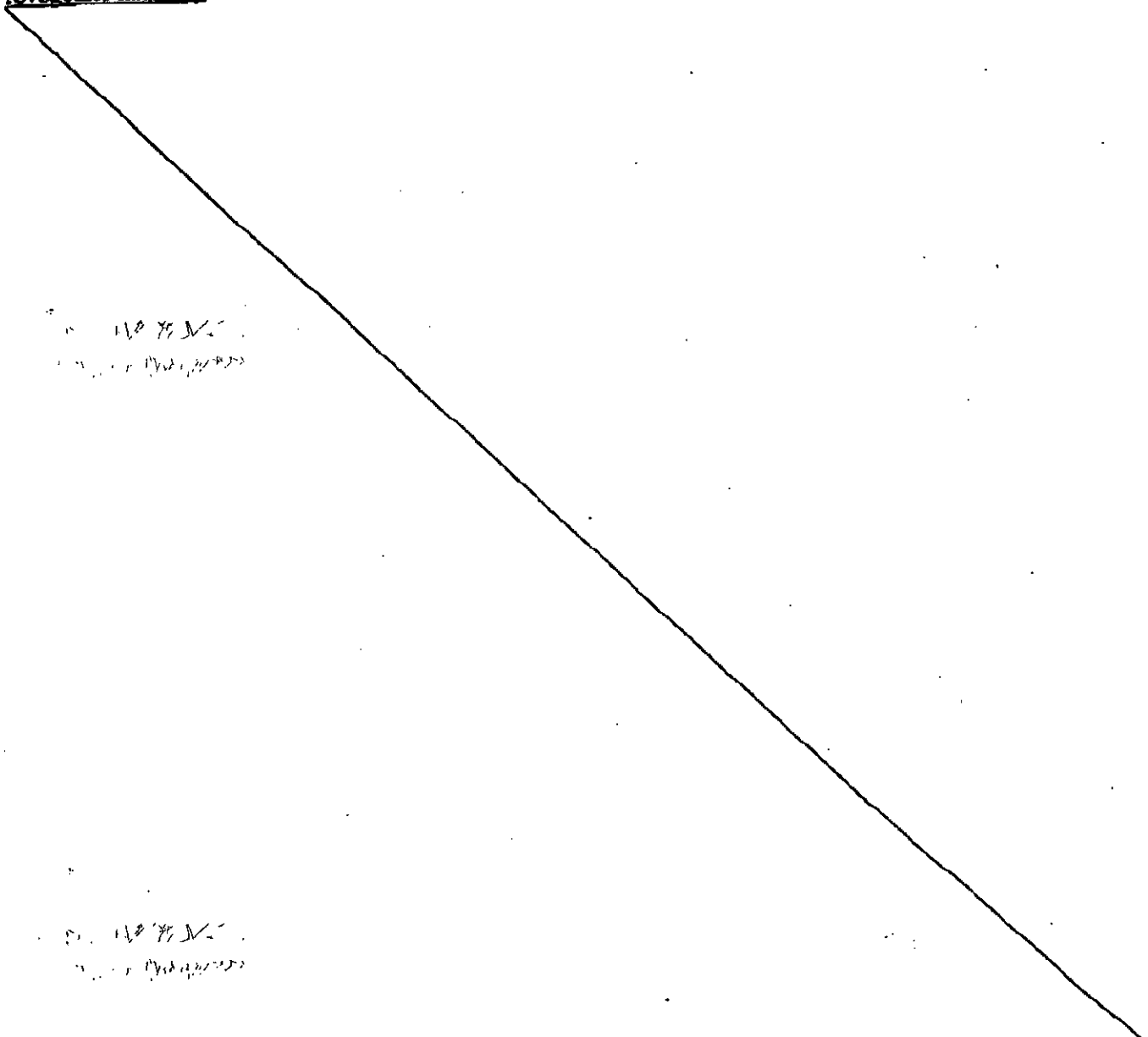
A. Pursuant to Subsection 403.516(1), F.S., the Board hereby delegates the authority to the Secretary to modify, after notice and opportunity for hearing, any conditions of this certification dealing with ~~pertaining to~~ consumptive use of water, monitoring, sampling, monitoring, reporting, specification of control equipment, related time schedules, effluent or emission standards or limitations, variances or exceptions to water quality standards, groundwater, mixing zones, zones of discharge, leachate control programs, railroad spur, transmission lines, access roads, or pipeline construction, source of treated effluent cooling water, mitigation, transfer or assignment of the certification or related federally delegated permits, or any special studies conducted as necessary to obtain the objectives of Chapter 403, Florida Statutes, which are not in conflict with the Conditions of Certification in Part VII.

B. This certification shall be automatically modified to conform to any subsequent amendments, modifications, or renewals made by DEP to any separately issued Prevention of Significant Deterioration (PSD) permit, Title V Air Permit, or National Pollutant Discharge Elimination System (NPDES) permit for the facility under any federally delegated or approved program. OUC shall send each party to the original certification proceedings (at the party's last known address as shown in the record of the proceedings) notice of requests for modifications or renewals to the applicable federal permit if the request involves a relief mechanism (e.g. mixing zone, variance, alternate emission or discharge standard, etc.) from standards. DEP shall notify all parties to the certification proceedings of any intent to modify conditions under this section prior to taking final agency action.

C. All other modifications to these conditions shall be made in accordance with Section 403.516, Florida Statutes.

V/XXXVII. Landfill Gas and Condensate Pipeline Construction

OUC and its contractors will maintain *in situ* flow conditions within the upland cut ditches located approximately at stations 42+50 and 44+75 during construction of the landfill gas and gas condensate pipelines. Upon completion of construction at each of these locations, OUC and its contractors shall restore the banks of the ditches to natural grade and will allow the ditches to revegetate naturally.



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NOTICE OF RIGHTS

Any party to this Order has a right to seek judicial review of this Order 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, 3900 Commonwealth Boulevard, MS 35, 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 this Order is filed with the clerk of the Department.

DONE AND ORDERED this 22nd day of December 1997, in Tallahassee, Florida.

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION**


VIRGINIA B. WETHERELL

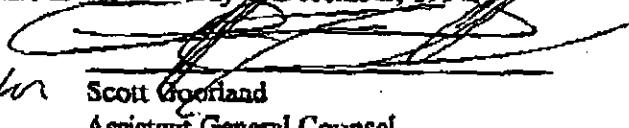
acting Secretary
Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000
(904) 488-1554

**FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to §120.52
Florida Statutes, with the designated
Department Clerk, receipt of which
is hereby acknowledged.**

 12/24/97
Clerk Date

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished by U. S. Mail to the parties listed below on this 24th Day of December, 1997.

for


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