

Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

April 18, 1990

Mr. Harry Schindehette
Director of Utilities
Ft. Pierce Utilities Authority
P. O. Box 3191
Ft. Pierce, Florida 33440

Dear Mr. Schindehette:

Re: 31.6 MW Combined Cycle Gas Turbine

As per Ms. Stephanie Brooks' request, your permit AC 56-141460 will be modified as follows:

Specific Condition No. 1

FROM:

1. The maximum emission rates for the 31.6 MW combined cycle gas turbine during natural gas firing shall not exceed the limits required by 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines, as follows:

Nitrogen oxides NSPS Standards = $0.0075 \left(\frac{14.4}{Y} \right) + F$

or

= 84 ppm NOx

and

Sulfur dioxide NSPS Standard = 0.015% by volume at 15% oxygen on a dry basis

Visible Emission Not to exceed 15% opacity

Fuel Oil No. 2 Not to exceed 0.5% sulfur content by weight

TO:

1. The maximum emission rates for the 31.6 MW combined cycle gas turbine during natural gas firing shall not exceed the limits required by 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines, as follows:

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Nitrogen oxides NSPS Standards = $0.0075 \frac{(14.4)}{Y} + F$
 or
 = 84 ppm NOx
 and

Sulfur dioxide NSPS Standard = 0.015% by volume at 15% oxygen on a dry basis

Visible Emission Not to exceed 15% opacity

Fuel Oil No. 2 Not to exceed 0.5% sulfur content by weight

Carbon Monoxide Not to exceed 32.85 lbs/hr and 110.4 tons/yr

Specific Condition No. 8

FROM:

The operating permits for this facility shall be modified as follows:

Parameter	Unit 6		Unit 7		Unit 8	
	lbs/hr	ton/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
Part.	0.04	0.0024	0.568	0.382	0.945	3.017
SOx	12.38	0.0743	0.1199	0.0806	0.1917	0.617
NOx	1.31	0.007854	104.35	70.126	173.20	552.86
VOC	0.0236	0.000142	0.266	0.179	0.441	1.407
CO	0.15	0.0009	7.589	5.100	12.59	40.20
hrs/yr	12		1344		6384	

TO:

The operating permits emission limits for this facility's existing boilers shall not exceed the following rates:

Parameter	Unit 6		Unit 7		Unit 8	
	lbs/hr	ton/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
Part.	0.4	0.0024	0.568	0.382	0.945	3.017
SOx	12.38	0.0743	0.1199	0.0806	0.1917	0.617
NOx	1.31	0.007854	104.35	70.126	173.20	552.86
VOC	0.0236	0.000142	0.266	0.179	0.441	1.407
CO	0.15	0.0009	7.589	5.100	12.59	40.20
hrs/yr	12		1344		6384	

The operating permits emission limits for these boilers (units No. 6, 7, and 8) shall be modified as stated above.

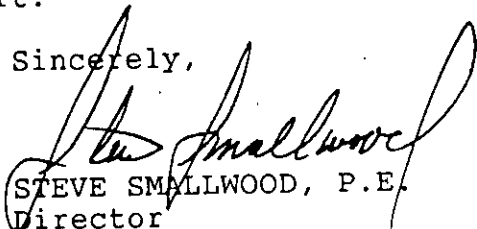
Mr. Harry Schindehette
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Attachment to be Incorporated

Ms. Stephanie Brooks' request

This letter must be attached to the above mentioned permit and shall become a part of the permit.

Sincerely,



STEVE SMALLWOOD, P.E.
Director
Division of Air Resources
Management

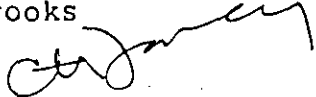
SS/TH/plm



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To _____	Location _____
To _____	Location _____
To _____	Location _____
From: _____	Date: _____

Interoffice Memorandum

TO: Stephanie Brooks
FROM: Clair Fancy. 
DATE: April 23, 1990
SUBJ: 31.6 MW Combined Cycle Gas Turbine
AC 56-141460

In response to your telephone conversation with Mr. Jim Pennington on April 2, 1990, we are modifying permit AC 56-141460.

An emission limit will be included as a specific condition for the CO pollutant. The Bureau will modify specific condition No. 1 by adding the following sentence:

Carbon monoxide emissions shall not exceed 32.85 lbs/hr and 110.4 tons/yr when burning natural gas.

This limit for CO was the basis for the rule applicability and it is the same emission limit that the company proposed.

In addition, you also requested we clarify condition No. 8. This condition calls for modification of the permit for units No. 6, 7, and 8. You indicated this condition does not give emission limits.

The Bureau's intent was to make emissions from boilers No. 6, 7, and 8 federally enforceable since the reduction of emissions from these boilers (net emission change) were credited to the combined cycle gas turbine (unit No. 9) project. The new emission limits are as stated in specific condition No. 8 (units are lbs/hr, tons/yr and hrs/yr) of permit AC 56-141460.

It should also be noted that particulate emissions from unit No. 6 need to be changed from 0.04 lbs/hr to 0.4 lbs/hr (this appears to be a typographical error).

The existing boilers' compliance schedule, specific conditions, and operating limitations (excepting the new emission limits) should remain the same as stated in the current operating permits.

CHF/TH/plm



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____

Interoffice Memorandum

TO: Steve Smallwood *onls*
FROM: Clair Fancy *[Signature]*
DATE: April 18, 1990
SUBJ: Air Construction Permit Amendment
AC 56-141460, Ft. Pierce Utilities Authority

Attached for your signature is an amendment prepared by the Bureau of Air Regulation for the above referenced permit to construct a 31.6 MW combined cycle gas turbine.

I recommend your approval.

CF/TH/pa

Attachment

P 538 753 822

RECEIPT FOR CERTIFIED MAIL

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

PS Form 3800, June 1985

Sent to Harry Schindelhette	
Street and No. Ft Pierce Utilities	
P.O. State and ZIP Code P.O. Box 3191 - Ft Pierce Fla.	
Postage	5
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date and Address of Delivery	
TOTAL Postage and Fees	5
Postmark or Date 4-26-90 AC 56-141460	

● **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 boxes for additional service(s) requested.

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

3. Article Addressed to:
Harry Schindelhette
Director
Ft Pierce Utilities Authority
P.O. Box 3191
Ft. Pierce, FL 33440

4. Article Number
938-1162-862

Type of Service:
 Registered
 Certified
 Express Mail
 Insured
 COD
 Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Address
X *[Signature]*

6. Signature - Agent
X *[Signature]*

7. Date of Delivery
MAY - 1 1990

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

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT