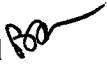


Memorandum

Florida Department of Environmental Protection

TO: Clair Fancy

FROM: Bruce Mitchell 

DATE: April 27, 2001

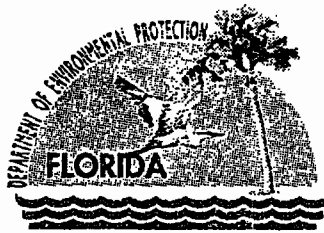
SUBJECT: JEA – Kennedy Generating Station
Combustion Turbine #7
Final Air Construction Permit Modification
0310047-007-AC

Attached is a letter modifying a specific condition established in a previously issued air construction permit (0310047-002-AC) for the above referenced emissions unit. The change will establish the operating rate required during performance testing and reflects the provisions of the Division of Air Resources Management's Guidance Memorandum DARM-OGG-07, "Guidance on Rate of Operation during Stack Testing for Combustion Turbines", dated March 1, 2000.

There were no comments received during the Public Notice period. Therefore, it is recommended to issue the air construction permit modification as noticed.

Attachments

CHF/bm



Jeb Bush
Governor

Department of Environmental Protection

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

David B. Struhs
Secretary

April 27, 2001

CERTIFIED MAIL – Return Receipt Requested

Mr. Walter P. Bussells
Managing Director & CEO
Jacksonville Electric Authority
21 West Church Street
Jacksonville, Florida 32202

Re: Final Air Construction Permit No.: 0310047-007-AC
Jacksonville Electric Authority - Kennedy Generating Station
Combustion Turbine #7

Dear Mr. Bussells:

This letter modification changes a federally enforceable specific condition established in air construction permit, No. 0310047-002-AC, issued/clerked on March 22, 1999, and which authorized the construction of combustion turbine #7. The simple cycle combustion turbine was incorporated into the Title V Air Operation Permit under revision No. 0310047-006-AV. Therefore, Specific Condition No. 31, 0310047-002-AC, is changed as follows:

FROM: Testing Procedures. Testing of emissions shall be conducted with the CT operating at permitted capacity. Permitted capacity is defined as 95-100 percent of the maximum heat input rate allowed by the permit, corrected for the average turbine inlet temperature during the test (with 100 percent represented by a curve depicting heat input vs. ambient temperature). If it is impracticable to test at permitted capacity, the source may be tested at less than permitted capacity. In this case, subsequent operation is limited by adjusting the entire heat input vs. turbine inlet temperature curve downward by an increment equal to the difference between the maximum permitted heat input (corrected for ambient temperature) and 105 percent of the value reached during the test until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the permitted capacity. Test procedures shall meet all applicable requirements (i.e., testing time frequency, minimum compliance duration, etc.) of Rule 62-204.800, F.A.C.
[0310047-002-AC]

TO: Testing Procedures. Compliance testing of emissions shall be conducted with the CT operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the manufacturer's rated heat input achievable for the average compressor inlet conditions during the test. If it is impracticable to test at permitted capacity, then combustion turbines may be tested at less than permitted capacity. In such cases, the entire curve or table shall be adjusted downwards by the increment which reflects the reduced rate of operation at which compliance was demonstrated. This increment is equal to the difference between the manufacturer's heat input or fuel usage value and 110 percent of the value reached during the test. In this case, the data and calculations necessary to demonstrate the heat input or fuel usage rate correction shall be submitted to the Department with the compliance test report. Test procedures shall meet all applicable requirements (i.e., testing time frequency, minimum compliance duration, etc.) of Rule 62-204.800, F.A.C.

{Permitting note: Attached (GE Heat Input Curves) are the manufacturer's heat input curves that are nominal values to be used to aid in defining "full load" for stack testing purposes and do not constitute a limit on heat input.}

[0310047-007-AC]

"More Protection, Less Process"

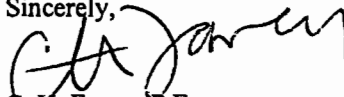
Printed on recycled paper.

Mr. Walter P. Bussells
JEA: Kennedy Power Station
Combustion Turbine #7
0310047-007-AC
Page 2 of 2

This permit (letter) is issued pursuant to Chapter 403, Florida Statutes (F.S.). Any party to this order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 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 must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.

Sincerely,



C. H. Fancy, P.E.
Chief
Bureau of Air Regulation

CHF/BM/m

Enclosure

cc: Mr. Jon P. Eckenbach, Executive Vice President/Designated Representative, JEA
Mr. N. Bert Gianazza, P.E., JEA, Application Contact
Mr. Chris Kirts, DAPA, NED

Mailed on 4/30/01

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Walter P. Bussells
 Managing Director & CEO
 Jacksonville Electric
 Authority
 21 West Church Street
 Jacksonville, Florida 32202

2. Article Number (Copy from service label)

7099 3400 0000 1449 5410

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) B. Date of Delivery

T. HEARNEY

C. Signature

X *T. Heaney*

- Agent
 Addressee

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below: No

MAY 03 2001

3. Service Type

- Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

PS Form 3811, July 1999

Domestic Return Receipt

102595-99-M-1789

**U.S. Postal Service
 CERTIFIED MAIL RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)**

Article Sent To:

Mr. Walter P. Bussells

Postage \$

Certified Fee

Return Receipt Fee
 (Endorsement Required)

Restricted Delivery Fee
 (Endorsement Required)

Total Postage & Fees \$

Postmark
 Here

*issued/signed: 4/27
 certified mail: 4/30*

Name (Please Print Clearly) (to be completed by mailer)

Mr. Walter P. Bussells

Street, Apt. No., or PO Box No.

21 West Church Street

City, State, ZIP+4

Jacksonville, Florida 32202

PS Form 3808, July 1999

See Reverse for Instructions

7099 3400 0000 1449 5410



Florida
Department of
Environmental Protection

Jeb Bush
Governor

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

David Struhs
Secretary

FAX TRANSMITTAL SHEET

DATE: 4-27-2001

TO: Bert Gianazza

PHONE: 904/665-6247

FAX: 904/665-7376

FROM: Bruce Mitchell

PHONE: 850/921-9506

Division of Air Resources Management

FAX: 850.922.6979

RE: 0310047-007-AC

CC: _____

Total number of pages including cover sheet: 3

Message

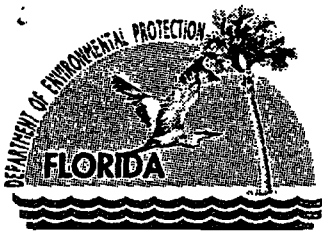
Please let me know if you receive all pages and
they are readable. Hard copy to follow next week. Take care.

Bruce Mitchell

If there are any problems with this fax transmittal, please call the above phone number.

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

Printed on recycled paper



Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

April 27, 2001

CERTIFIED MAIL – Return Receipt Requested

Mr. Walter P. Bussells
Managing Director & CEO
Jacksonville Electric Authority
21 West Church Street
Jacksonville, Florida 32202

Re: Final Air Construction Permit No.: 0310047-007-AC
Jacksonville Electric Authority - Kennedy Generating Station
Combustion Turbine #7

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[0310047-002-AC]

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[0310047-007-AC]

"More Protection, Less Process"

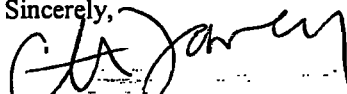
BEST AVAILABLE COPY

Mr. Walter P. Bussells
JEA: Kennedy Power Station
Combustion Turbine #7
0310047-007-AC
Page 2 of 2

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Executed in Tallahassee, Florida.

Sincerely,



C. H. Fancy, P.E.

Chief

Bureau of Air Regulation

CHF/BM/m

Enclosure

cc: Mr. Jon P. Eckenbach, Executive Vice President/Designated Representative, JEA
Mr. N. Bert Gianazza, P.E., JEA, Application Contact
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