



Florida
Power
CORPORATION

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JAN 21 1994
Bureau of
Air Regulation

January 17, 1994

Mr. A. Alexander, P. E.
District Director
Florida Department of Environmental Protection
Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Dear Mr. Alexander:

Re: DeBary New Peaker Combustion Turbine Facility, Permit # AO64-233544

The above referenced units currently are load restricted as a result of earlier compliance testing which occurred during July, 1993. As you are aware, combustion turbines have variable heat input requirements depending on the ambient temperature. Since compliance testing was conducted in the summer, 90 percent of the maximum allowable heat input of 1144 mmBtu/hr at 20 °F could not be achieved. The air operation permit currently limits the allowable heat input to 110 percent of the actual heat input achieved during compliance testing.

Florida Power Corporation (FPC) is currently working on two approaches to return these units to full load capability. The preferred approach is to have the heat input language contained in the Intercession City permit incorporated into the DeBary permit. This language requires achieving 90 percent of the maximum allowable heat input at the ambient temperature recorded during the compliance testing. Achieving this level of heat input allows for unit operation over the entire ambient temperature range. The second approach would be to conduct a compliance test during cold weather to assure achieving 90 percent of the heat input at a 20 °F. A meeting is scheduled for February 3, 1994 which will include a discussion of this issue. The actual approach taken by FPC will depend on the outcome of this meeting. To assure the ability to test during cold weather, FPC will be filing the necessary 15 day notification to perform compliance testing in early February, 1994. This notification will be amended as necessary after the meeting on February 3, 1994.

If you have any questions or comments on either of these approaches, please contact me at (813)866-4281.

Sincerely,

Kent D. Hedrick, P. E.
Supervisor, Air Programs

cc: John C. Brown, P. E. - FDEP, Tallahassee
Mike Harley, P. E. - FDEP, Tallahassee

Barbara

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

ROUTING AND TRANSMITTAL SLIP

TO: (NAME, OFFICE, LOCATION)

1. Preston
- 2.
- 3.
- 4.

(1) Discuss with Doug the Jan 17 letter from Hedrick. See if there is any reason not to change DeBay permit to the same as in Inverness City.
~~Be~~ Have a copy of both permits at our Feb 3 meeting, please.

- (2) Hedrick is sending agenda:
- a) Establish NO_x em rates for 150 values over a range of amb temp, per curves est. by them.
 - b) Use ~~algorithm~~ algorithm? (GG)
 - c) Discuss 90-100% of tested value (1) above.

FROM:

John B

DATE

PHONE