

# ESE

## ENVIRONMENTAL SCIENCE AND ENGINEERING, INC.

May 3, 1984  
81-613-0200

Ms. Teresa M. Heron  
Florida Department of  
Environmental Regulation  
Bureau of Air Quality Management  
2600 Blair Stone Road  
Tallahassee, FL 32301

DER  
MAY 04 1984  
BAQM

Subject: Kissimmee Utilites Permit No. AC49-74856

Dear Ms. Heron:

In follow-up to our conversation of April 27, 1984, this letter is to request on behalf of Kissimmee Utilities, an extension of the construction permit, which currently expires on August 1, 1984. Condition 13 of the construction permit requires a complete application for an operating permit to be submitted to the DER prior to 90 days of the expiration date of the construction permit. This would require the construction permit to be submitted on about May 1, 1984. Kissimme Utilities will not be able to complete an operating permit application by May 1st for several reasons. The first is that the construction permit was not received by Kissimmee Utilities until April 13, 1984. Therefore, they would have had approximately two weeks to perform all required performance tests and submit the application, which is not practical.

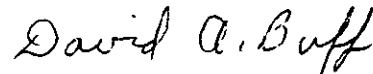
Secondly, the DER upheld the requirement of performing the source testing between the gas turbine and the boiler of the combined cycle unit. At present there are no ports installed in the bypass exhaust stack of the gas turbine and it would be nearly impossible to do so because of silencer on the stack. I am presently negotiating further with Ed Palagyi on this point. Once a decision is made it will take some time to install the required stack sampling ports.

Thirdly, Westinghouse has experienced some delays in completing their performance tests of the gas turbine unit. Westinghouse will be performing some additional testing in the first few weeks of May, and therefore the performance testing required by the construction permit will need to be delayed until after that time. Therefore, Kissimmee Utilities anticipates performance testing of the unit as required by the construction permit to be conducted during the last half of May or first half of June. A completed operating permit application could then likely be submitted during June.

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As a result, Kissimmee Utilities requests that the construction permit application date be extended to October 1, 1984. If you have any questions concerning this request, please call Mr. Max Alderman at Kissimmee Utilities or myself.

Sincerely,



David A. Buff, ME, PE  
Senior Engineer

DAB:rr

cc: Mr. James C., Welch, Kissimmee Utilities  
Mr. Max Alderman, Kissimmee Utilities  
Mr. Pete Burnette, ESE



March 29, 1984

Mr. Ed Palagyi  
Department of Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32301-8241

DER

APR 02 1984

BAQM

Re: Air Pollution Permit AC 49-74856

Dear Mr. Palagyi:

This letter is intended to satisfy the requirements of NSPS monitoring under 60.334 (a) subpart GG, 40 CFR for Kissimmee Utility's W251 B8 gas turbine NO<sub>x</sub> control.

The system is installed exactly as is described in the construction permit application of September 9, 1983 having the following features:

- Water injection on/off lighted panel button in the control room.
- Fuel flow is continuously monitored and recorded at this point.
- Water injection skid is housed about 25 paces from the control room.
- The integrator is used to record water flow by receiving a signal from the flow meter.
- The integrator valve is incremented by one count for each gallon of water to the burner.
- An alarm is activated in the control room when water flow is lost.

Attached is a copy of the operators log used to monitor and record water flow to burners.

Very truly yours,

James C. Welsh, P.E.  
Electric Utilities Director

GM:JCW/rk  
Attachment

cc - Steve Neck  
Max Alderman

Fuel Log Sheet

Combined Cycle Plant  
Kissimmee, Florida

Date \_\_\_\_\_

Time	Plant MW	Gas Fuel Meter	No. 2 Fuel Meter	Remarks
0100				
0200				
0300				
0400				
0500				
0600				
0700				
0800				
0900				
1000				
1100				
1200				
1300				
1400				
1500				
1600				
1700				
1800				
1900				
2000				
2100				
2200				
2300				
2400				

NOTES:

Time	F.O. Forwarding Pump Discharge	L.P. Fuel Filter Inlet	L.P. Fuel Filter Outlet	Lube Oil Filter Inlet	Lube Oil Filter Outlet	Air Receiver	Main Lube Oil Pump Disch	Overspeed Trips	Fuel Pump	Instrument Air	High Pressure Oil	Bearing Oil	Combustor Shell (P2C)	Megawatts	Megavars	TEMPERATURE								Water Injection Flow in Gallons		
																Temperature Spread	Blade Path Temp "0"	Blade Path Temp "1"	Blade Path Temp "2"	Blade Path Temp "3"	Blade Path Temp "4"	Blade Path Temp "5"	Blade Path Temp "6"		Blade Path Temp "7"	Blade Path Temp "8"
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Remarks: 11-7 Shift  
 2400 hrs ME at 2400 hrs  
 Lube Oil Filter Inlet  
 Lube Oil Filter Outlet  
 Air Receiver  
 Main Lube Oil Pump Disch  
 Overspeed Trips  
 Fuel Pump  
 Instrument Air  
 High Pressure Oil  
 Bearing Oil  
 Combustor Shell (P2C)  
 Megawatts  
 Megavars

Remarks: 7-3 Shift

Remarks: 3-11 Shift