

**H. D. KING POWER PLANT**

311 North Indian River Drive  
Fort Pierce, Florida 34950  
(561) 464-5792

**RECEIVED**

**FEB 22 2000**

**BUREAU OF AIR REGULATION**

February 16, 2000

Mr. Scott M. Sheplak, P.E.  
Department of Environmental Protection  
Bureau of Air Regulation  
Twin Towers Office Building  
2600 Blair Stone Road, M/S 5505  
Tallahassee, FL 32399-2400

Subject: Title V Permit for H. D. King Power Plant  
Fort Pierce Utility Authority  
Permit No. 1110003-003-AV

Dear Mr. Sheplak:

The Fort Pierce Utility Authority (FPUA) is making fuel supply changes at the subject plant. Effective immediately, the H. D. King Power Plant will store and utilize only No. 2 fuel oil with a sulfur content of 0.5% by weight as a backup fuel supply to all generating units at the site. Steam Units 6, 7 and 8 have previously utilized NO. 6 fuel oil with a sulfur content of 0.84% by weight. Commitment to utilization of only No. 2 fuel oil will reduce SO<sub>2</sub> emissions when fuel oil is being fired in Units 6, 7 and 8.

Table 1 summarizes the potential total SO<sub>2</sub> emission reductions with the change from #6 fuel to #2 fuel. The emission reduction projected compares SO<sub>2</sub> emissions based on other current permitted maximum oil operating hours for Units 6, 7 and 8.

<b>TABLE 1</b>				
<b>PROJECTED SO<sub>2</sub> EMISSION REDUCTIONS FOR H. D. KING POWER PLANT Fuel Oil Usage Change</b>				
	<b>Unit 6, 7 &amp; 8 Heat Input (mmBtu/hr)</b>	<b>Fuel Sulfur Content (%)</b>	<b>SO<sub>2</sub> Emissions Rate (lbs./mmBtu)</b>	<b>SO<sub>2</sub> Emissions for 400 Operating Hours Per Year (tons)</b>
<b>No. 6 Fuel</b>	1300	0.84	0.80 <sup>(1)</sup>	208.0
<b>No. 2 Fuel</b>	1300	0.50	0.51 <sup>(2)</sup>	132.6
<b>Potential Emissions Reduction</b>	0	0	0	75.4

(1) Based on the permit limit for No. 6 fuel oil

(2) Based on 0.5% sulfur No. 2 fuel oil

Emissions for particulates, NO<sub>x</sub>, CO and VOC would not be expected to significantly change with this fuel change.

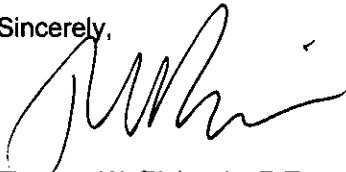
Page 2  
February 16, 20000

The Fort Pierce Utilities Authority is requesting an administrative change to Permit No. 111003-003-AV, Condition A.3.b to add a Permitting Note allowing firing backup fuel oil (No. 2 fuel, 0.5% Sulfur content) for the following conditions:

- 1) Liquid fuel systems maintenance as per manufacturer's specifications.
- 2) Restricted availability of natural gas.

If there are any questions per the requested change please feel free to contact George Miller at (561) 464-5792.

Sincerely,



Thomas W. Richards, P.E.  
Director, Operations

TWR:GM/p

pc: E. Leongomez  
S. Treece  
G. Miller



**H. D. KING POWER PLANT**

311 North Indian River Drive  
Fort Pierce, Florida 34950  
(561) 464-5792

RECEIVED  
DEC 02 1999  
DEPT OF ENV PROTECTION  
WEST PALM BEACH

November 30, 1999

Mr. Lennon Anderson  
Florida Department Of Environmental Protection  
Southeast District  
400 North Congress Avenue  
P.O.Box 15425  
West Palm Beach , Florida 33416-5425

Subject: **Title V Permit for H. D. King Power Plant  
Ft. Pierce Utility Authority  
Permit No. 1110003-003-AV**

Dear Mr. Anderson:

The Fort Pierce Utilities Authority (FPUA) is making plans for fuel supply changes at the subject plant. Effective immediately the H. D. King Power Plant will store and utilize only No. 2 fuel oil, with a sulfur content of 0.5 % by weight, as a backup fuel supply to all of the generating units at the site. Steam Units 6, 7 and 8 have previously utilized No. 6 fuel oil with a sulfur content of 0.84 % by weight. Commitment to utilization of only No. 2 fuel oil will reduce fuel handling, operations, and maintenance requirements and will reduce emissions when fuel oil is being fired in Units 6, 7 and 8. Assuming fuel oil usage of 400 hours per year, which is the total amount permitted for Units 6, 7 and 8, Table 1 summarizes the potential SO<sub>2</sub> emission reductions from this fuel change.

<b>TABLE 1</b>				
<b>POTENTIAL SO<sub>2</sub> EMISSION REDUCTIONS FOR H. D. KING POWER PLANT Fuel Oil Usage Change</b>				
	<b>Unit 6, 7 &amp; 8 Heat Input (mmBtu/hr)</b>	<b>Fuel Sulfur Content (%)</b>	<b>SO<sub>2</sub> Emissions Rate (lbs/mmBtu)</b>	<b>SO<sub>2</sub> Emissions for 400 Operating Hours Per Year (tons)</b>
No. 6 Fuel	1300	0.84	0.80 <sup>(1)</sup>	208
No. 2 Fuel	1300	0.50	0.51 <sup>(2)</sup>	132.6
Potential Emission Reduction	-	-	-	75.4

(1) Based on the permit limit for No. 6 fuel oil.  
(2) Based on 0.5% sulfur No. 2 fuel oil.

Emissions for particulates, NO<sub>x</sub>, CO and VOC would not be expected to significantly change with this fuel change.

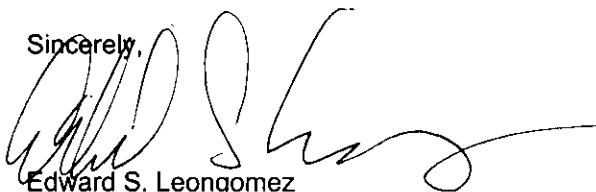
Florida Department of Environmental Protection

November 30, 1999

Page 2

If there are questions concerning the requested change, please feel free to contact me at (561) 464-5792.

Sincerely,

A handwritten signature in black ink, appearing to read 'Edward S. Leongomez', written in a cursive style.

Edward S. Leongomez

Superintendent-Power Generation

cc: T. Richards

S. Treece

G. Miller

Date: 1/2/98 11:02:26 AM  
From: Mary Fillingim TAL  
Subject: New Posting  
To: See Below

There is a new posting available on Florida's website.

FT PIERCE UTILITIES AUTHORITY  
1110003

FINAL

The notification letter is enclosed and attached. Please let me know if you have any questions.

Thanks,  
Mary

To: adams yolanda  
To: pierce carla  
To: Barbara Boutwell TAL  
To: Scott Sheplak TAL  
To: Terry Knowles TAL  
To: danois gracy  
To: Elizabeth Walker TAL  
CC: Ed Svec TAL