



November 12, 1996

Mr. Al Linero  
Florida Department of Environmental Protection  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Mr. Jerry Campbell  
Environmental Protection Commission  
of Hillsborough County  
1410 N. 21st Street  
Tampa, Florida 33605

**Re: Tampa Electric Company  
Big Bend Unit #4  
Petroleum Coke  
Permit #PSD-FL-040  
Annual Report**

**RECEIVED**  
NOV 18 1996  
BUREAU OF  
AIR REGULATION

Gentlemen:

As required by Specific Condition #1.C. of the above referenced permit, enclosed please find the first of the required five (5) annual reports. This report is to demonstrate that the operational change, the burning of petroleum coke, did not result in an emissions increase.

If you have any questions, please feel free to call Janice Taylor or me at 641-5039.

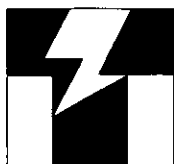
Sincerely,

Patrick A. Ho, P.E.  
Manager  
Environmental Planning

EPARPT061

Enclosures

cc: a. linero  
J. Reynolds  
M. Costello  
EPA  
NPS  
S. Arif



**TAMPA ELECTRIC COMPANY  
BIG BEND UNIT 4  
PETROLEUM COKE FUEL BLEND  
ANNUAL EMISSIONS REPORT  
September 17, 1995-  
September 16, 1996**

**BIG BEND UNIT #4  
ACTUAL OPERATING CONDITIONS  
COMPARISON TO  
HISTORICAL ACTUAL EMISSIONS**

<b>POLLUTANT</b>	<b>ANNUAL EMISSION (TPY) 9/17/95 - 9/16/96</b>	<b>vs.</b>	<b>1993 &amp; 1994 ANNUAL EMISSION (TPY)</b>
SO2	4565		6788
NOx	6277		6763
PM	47		72

**BIG BEND UNIT #4  
PETROLEUM COKE FUEL BLEND  
PM EMISSIONS  
9/17/95 - 9/16/96**

FROM ANNUAL COMPLIANCE TEST PM = .003 LB/MMBTU  
FROM GENERATION SUMMARY ANNUAL HEAT INPUT = 31472124 MMBTU

ANNUAL PM EMISSIONS (TPY) = (0.003 LB/MMBTU)(31472124 MMBTU)(TN/2000LB)  
(9/17/95-9/16/96) = 47.2 TPY => **47 TPY**

**BIG BEND UNIT #4  
 PETROLEUM COKE FUEL BLEND  
 NOx EMISSIONS  
 9/17/95 - 9/16/96**

DATE	GROSS GENERATION MWHR	GROSS HEAT RATE BTU/KWH	HEAT INPUT MMBTU	NOx EMISSIONS LBS/MMBTU	YTD EMISSIONS LBS/MMBTU	NOx EMISSIONS MONTHLY TONS	NOx EMISSIONS YTD TONS
SEPT 17 - OCT 16	303546	9706	2946278	0.521	0.521	768	768
OCT 17 - NOV 16	301412	9580	2887557	0.486	0.504	702	1469
NOV 17 - DEC 16	262891	9451	2484664	0.447	0.487	555	2025
DEC 17 - JAN 16	295254	9460	2793044	0.371	0.458	518	2543
JAN 17 - FEB 16	267304	9525	2545956	0.395	0.446	503	3045
FEB 17 - MAR 16	82702	9301	769220	0.392	0.443	151	3196
MAR 17 - APR 16	293606	9312	2734030	0.347	0.428	474	3671
APR 17 - MAY 16	317246	9311	2953878	0.366	0.419	541	4211
MAY 17 - JUN 16	320400	9423	3019129	0.354	0.410	534	4746
JUN 17 - JUL 16	306826	9464	2903801	0.356	0.404	517	5262
JUL 17 - AUG 16	299709	9548	2861622	0.363	0.400	519	5782
AUG 17 - SEP 16	264217	9738	2572945	0.385	0.399	495	6277
<b>TOTAL</b>	<b>3315113</b>	<b>N/A</b>	<b>31472124</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>42995</b>

**BIG BEND UNIT #4  
 PETROLEUM COKE FUEL BLEND  
 SO2 EMISSIONS  
 9/17/95 - 9/16/96**

<b>DATE</b>	<b>SCRUBBER EFFICIENCY</b>	<b>COAL CONSUMED TONS</b>	<b>SULFUR CONTENT %</b>	<b>SO2 REMOVED TONS</b>	<b>SO2 EMITTED TONS</b>
SEP (9/17-9/30/95)	96.70	62783	3.30	3807	130
OCT 95	96.30	126076	3.30	7612	292
NOV 95	95.20	122135	3.11	6871	346
DEC 95	94.06	121661	3.11	6762	427
JAN 96	95.50	113380	3.07	6316	298
FEB 96	95.80	55079	3.14	3148	138
MAR 96	94.50	103090	3.07	5683	331
APR 96	94.10	123571	2.91	6429	403
MAY 96	92.80	140604	3.12	7735	600
JUN 96	94.20	129370	3.12	7224	445
JUL 96	94.60	131506	3.17	7493	428
AUG 96	93.60	130428	3.21	7446	509
SEP (THRU 9/16/96)	93.10	52260	3.18	2940	218
<b>SO2 TONS EMITTED</b>					<b>4565</b>



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DEPARTMENT OF ENVIRONMENTAL PROTECTION

OCT 26 1995

SITING COORDINATION

October 20, 1995

Mr. Hamilton S. Oven, Jr.  
Administrator, Siting Coordination Office  
Florida Department of Environmental Protection  
3900 Commonwealth Boulevard  
Tallahassee, FL 32399-2400

RECEIVED

NOV 1

Division of Air Resources Management

**Re: Tampa Electric Company  
Big Bend Station Unit No. 4  
Modification of Conditions of Certification  
PA 79-12**

Dear Mr. Oven:

As you know, we recently received the final order modifying conditions of certification for Big Bend Unit No. 4 to accommodate the use of a coal/petroleum coke blend fuel and changes to the fuel yard. One of the issues that was raised by the Environmental Protection Commission of Hillsborough County (EPCHC) was the appropriate visible emission limit for the fuel yard. EPCHC took the position that the 20 percent opacity limit that was in the original Conditions of Certification issued in 1981, and re-established for our operations in the Department's Final Order Modifying Conditions of Certification dated March 31, 1994, was not appropriate. Instead, the EPCHC requested that a 5 percent opacity limit be applied. In informal discussions, EPCHC suggested that a 10 percent limitation be adopted as a compromise.

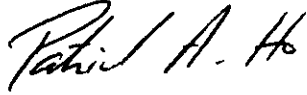
EPCHC has set forth several bases for the applicability of the 5 percent limit, but primarily has argued that the 20 percent limitation is not applicable and that 5 percent should be applied based upon reasonably available control technology (RACT). This limit, of course, has never been applied to this facility.

Since the revised Conditions of Certification now include a reference to the 5 percent opacity limitation as being applicable to visible emissions from the fuel yard, other than those unconfined emissions that are subject to the 20 percent opacity standard, we thought it appropriate to be sure that our position is understood. Although we have no objection to reciting the 5 percent opacity requirement in the Conditions of Certification or in the PSD permit, as previously discussed, all of the coal yard emissions are unconfined, as defined in Rule 62-296.200(192), Florida Administrative Code. Consequently, there are no areas to which the RACT opacity provision would be applicable.

Mr. Hamilton S. Oven, Jr.  
October 20, 1995  
Page 2 of 2

If you have any questions, feel free to call me at (813) 228-4839.

Sincerely,

A handwritten signature in cursive script that reads "Patrick A. Ho". The signature is written in black ink and is positioned below the word "Sincerely,".

Patrick A. Ho, P.E.  
Manager  
Environmental Planning

EPgmJKT735