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JLT



POST OFFICE BOX 111 TAMPA, FLORIDA 33601 TELEPHONE (813) 876-4111

July 1, 1975

D. P. G.
JUL 2 1975
WEST CENTRAL REGION
WINTER HAVEN

Mr. J. H. Kerns, P.E.
Regional Engineer
West Central Region
Florida Department of Pollution Control
P. O. Box 9205
Winter Haven, Florida 33880

RE: Permit Nos. A029-2092
A029-2093
A029-2191

Dear Mr. Kerns:

As required by the Florida Department of Pollution Control regulations Chapter 17-2.04(1) we are submitting to you the results of visible emission tests for our fossil fueled steam generators as covered by the above listed permits.

Visible emission tests have not been performed for Big Bend Unit 2, Gannon Unit 5, or Hookers Point Unit 6 as these units were not operating at the time of the tests. As soon as testing of these units can be arranged, we will submit the results to you.

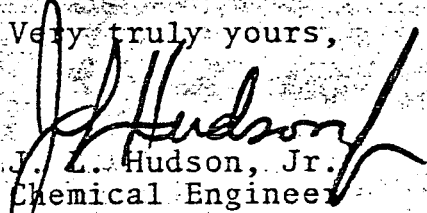
Gannon Units 1, 2 and 3 and Big Bend Unit 1 failed to pass the visible emission test. As we have discussed with the Florida Department of Pollution Control and the Environmental Protection Agency in the past, we have projects underway to convert Gannon Units 1, 2 and 3 from burning coal to burning low sulfur oil and to install an additional electrostatic precipitator on Big Bend Unit 1, which will bring all of these units into compliance with the visible emission regulations. These projects will be

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completed as expeditiously as possible. We expect the oil conversion on Gannon Units 1, 2 and 3 to be completed by July 1, 1976 and we expect that Big Bend Unit 1 will be removed from service by December 1, 1975 to tie in the new electrostatic precipitator. These schedules have been previously discussed with and approved by the Florida Department of Pollution Control and the Environmental Protection Agency.

If additional information is required, please feel free to contact us.

Very truly yours,


J. L. Hudson, Jr.
Chemical Engineer
Environmental Planning

JLH:sac

cc: Mr. Roger P. Stewart, HCEPC

VISIBLE EMISSIONS REPORT

observation date 6/23/75 distance to stack 500'
 time 8:20 AM wind direction/speed E 15-10
 stack location - CANNON UNIT #1 - TECO
 UTM coordinates 360000 mE 3,087,500 mN
 process description STEAM GENERATOR
Load 90 MW

observer William E. Schroeder

opacity observations in percent

sec min	0	15	30	45
0	20	15	15	15
1	20	25	25	20
2	25	30	30	30
3	20	25	30	25
4	20	20	20	20
5	20	20	20	20
6	30	35	40	35
7	30	20	20	20
8	20	30	25	20
9	20	20	30	20
10	20	20	20	15
11	15	15	20	15
12	20	15	15	15
13	10	10	15	20
14	15	10	10	10
15	15	15	15	10

sec min	0	15	30	45
16	15	10	15	15
17	10	15	15	10
18	15	15	15	15
19	15	20	15	15
20	15	15	10	10
21	15	15	15	10
22	10	5	15	15
23	15	15	20	20
24	20	20	15	15
25	15	20	15	15
26	20	20	20	15
27	15	15	20	20
28	20	20	20	15
29	15	10	15	20
30	20	15	20	20

opacity observations in percent

sec min	0	15	30	45
31	10	15	10	10
32	10	10	10	15
33	15	15	15	15
34	15	15	15	15
35	10	15	15	15
36	15	10	10	15
37	10	15	10	10
38	10	10	10	5
39	10	5	5	10
40	10	10	10	10
41	15	15	15	15
42	20	15	15	15
43	20	20	20	15
44	15	15	15	15
45	15	20	15	15

sec min	0	15	30	45
46	15	20	25	15
47	15	15	15	15
48	15	15	20	15
49	15	15	15	15
50	15	15	20	15
51	15	15	20	20
52	20	20	20	15
53	15	10	15	15
54	15	10	15	15
55	15	15	15	15
56	15	10	15	15
57	10	10	20	20
58	15	20	20	15
59	15	15	15	10
60	10	10	10	10

sum of readings recorded 3840

total number of readings 244

opacity % $\frac{\text{sum}}{\text{total}} = \frac{3840}{244} = 15.7\%$


comments:

*Sky Partly Cloudy.
18 READINGS GREATER THAN 20%*

observer certification card

STATE OF FLORIDA
DEPARTMENT OF POLLUTION CONTROL

Orlando 7 May 1975
Location of School Date

This is to  Certify That

WILLIAM E. SCHROEDER has completed
the STATE OF FLORIDA PLUME EVALUATION SCHOOL and is qualified
to rate visible emissions pursuant to Chapter 17-2.04(A) (B).

[Signature] Training Officer
Certifying Official Title

SUMMARY OF VISIBLE EMISSION TESTS
TAMPA ELECTRIC COMPANY

<u>Station</u>	<u>Stack No.</u>	<u>Date</u>	<u>Time</u>	<u>MW</u>	<u>lbs. Steam/ hour</u>	<u>Opacity</u>
Hookers Point	#1	6-23-75	12:30p.m.	---	314,000	1.5%
Hookers Point	#2	6-23-75	11:30p.m.	---	320,000	0.1%
Hookers Point	#3	6-23-75	12:35p.m.	---	400,000	0.7%
Gannon	#1	6-23-75	8:20a.m.	90	---	15.7%
Gannon	#2	6-23-75	9:20a.m.	100	---	10.3%
Gannon	#3	6-23-75	9:25a.m.	155	---	15.8%
Gannon	#4a	6-23-75	8:15a.m.	135	---	6.1%
Gannon	#4b	6-23-75	10:25a.m.	155	---	5.7%
Gannon	#6	6-23-75	2:30p.m.	315	---	13.3%
Big Bend	#1	6-29-75	10:50a.m.	325	---	26.5%