



MEMORANDUM

Date August 10, 1978

To P. David Puchaty, District Manager, SW District DER

From Joe Griffiths, Environmental Protection Commission

Subject: TECO Permits: Hooker's Point 4 & 6, Gannon 1 & 5

Each facility showed compliance during the latest stack test. The reason each source was permitted till July, 1981 is because: All sources are located in the non-attainment area for TSP and may be contributing to the overall problem. If that is the case some changes in operating time, performance standards, start-up procedures, etc. may be required and the changes could be incorporated into the next permit before the January 1, 1982 deadline.

cc: Files

JG/dj

D. E.R.

AUG 14 1978

SOUTHWEST DISTRICT

10-75 MOD. 2

BEST AVAILABLE COPY

STATE OF FLORIDA

W. H. BROWN NAME OF PERSON_

ACTIONS

| 5 | | ACI | IONS |
|-----------------------------------|--------|-----|------|
| TMENT OF ENVIRONMENTAL REGULATION | DELETE | 1 | |
| AIR PERMIT AND INVENTORY SYSTEM | ADD | 2 | |
| | CHANGE | '3 | 1 |

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DEPART POINT SOURCE CODING FORM

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|--------------|-----------------------------------------|---------------------------|-------------------------------------------------|----------------------------------------------|-------------------------|
| acraph | COMPANY NAME | | COMPANY MAILING ADDRESS | COMPANY CITY | ZIP CODE |
| 8 10 20 21 2 | 2 03 24 25 26 27 28 29 30 31 32 3 | 3 34 35 36 37 38 39 40 41 | 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 | 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 | 73 74 75 76 77 78 79 60 |
| | | | | | 0 7 . |

| CONSTRUCTION RCC PERMIT | ISSUE DATE | EXPIRATION DATE | OPERATING PERMIT | ISSUE DATE M M D D Y Y | EXPIRATION DATE | LATITUDE | SOUNCE TYPE ACTION |
|--------------------------------------|-------------------|-----------------|----------------------------------------------------|------------------------------|-------------------|----------------------|-------------------------------------|
| 10 1/ 118 10 20 21 22 23 24 25 26 27 | 28 29 30 31 32 33 | ! ! | 40 41 42 43 44 45 46 47 48 49 A 0 2 9 - 7 1 3 6 | 50 51 52 53 54 55 | 56 57 58 59 60 61 | 62 63 64 65 66 57 68 | 69 70 71 72 73 74 75 76 77 73 73 30 |

| FINAL OC CONTROL OC CO | SUB. OF CONTRACTS TO BE LET | START CONSTRUCTION | END CONSTRUCTION | FINAL COMPLIANCE | TESTING DATE | INSPECTION SCHEDULE | POLLUTANT (IF APP) | CTION |
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| N N Y Y | M M D D Y Y 26 27 28 29 30 31 | M M D D Y Y 32 33 34 35 36 37 | M M D D Y Y 38 39 40 41 42 43 | M M D D Y Y 44 45 46 47 48 49 | M M D D Y Y 50 51 52 53 54 55 | 56 57 58 59 60 51 62 63 64 65 66 67 | 68 69 70 71 72 73 74 75 76 77 | 78 79 E0 0 9 |

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| | | 1 0 |

| MOST REC INT DATE OF EMISSIONS OF EMISSIONS TESTING FOR SO2 M M D D Y Y M M D D Y Y M M D D Y Y | DUE DATE FOR PARTICULATE EMISSIONS TEST RESULTS M M D D Y Y M M D D Y | OR DATE OF RECORDING OF STATUS CODE STATUS | OF INSPECTION HOD BY DEPARTMENT | VE PERM ACTION ACTION W W W D D A A A CTION |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------|
| 15 17 18 19 20 21 22 23 24 25 26 2 18 20 30 31 | 32 33 34 35 36 37 33 39 40 41 42 43 | 43 44 45 46 47 48 49 50 51 52 53 54 55 56 5 | 57 59 59 60 64 62 63 64 65 66 67 6 | 68 69 70 71 72 73 74 75 76 77 78 79 60 |
| 78652378 062378 | 062378 06237 | 78 A | | |

PERMIT WORK SHEET

| TECO | | | |
|------------------------|---------------------------------|-------------------------------------------------------------------|----------------|
| SOURCE F. J. GANNON | Boilor #1 | DATE | 9-14-78 |
| COUNTY Hilles for ough | | | A029-7136 |
| | | | |
| | | | |
| ACTION | INITIAL WHEN CO | MPLETED | DATE |
| | • | | |
| Preliminary Review | | | |
| Assigned for Review to | | | |
| Review Comments | 9-14 | - 78 | M. |
| | source will not cause pollution | ind that the a reasonably be in violation s and regulati | bove mentioned |
| Number Assigned | | | |
| Permit Issued & Signed | | | |
| Permit Logged | | ······································ | |
| Permit Mailed | | | |
| Data Forms Completed | | | |
| Permit Denied | | | |

BEST AVAILABLE COPY CRITICAL OF PRIMARY SOURCE New Source (No related parmits) Boiler Pan-wed or modified permit Solid Waste (Incinerat Point source deleted Other Combustion Point source added Process New Source replacing old source Product (Name) BRIEF DESCRIPTION OF PROCESS Steam boiler OPRIATING TIME: OPERATING DATA STACK DATA Process Rate Height (FT) Process Rate TO Diam. (FT.) Max Design Rate Temp. (Of) Combustion (Units) Gal_TONS Flow Rate (CFM) ___ Rate Unit/Hr Unit Plume Height (FT) Reat Content BTU/G Cormon Stack (Explain) _ Boiler Capacity BTJ/H Max Design Rate Unit/ Fuel (Name) %s AS .

COMMENTS

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| 30v | 946.9 | 1211.1 | | | | | - Andrew |
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| Sequence number assigned by main office region code 05 Mo Yr 0573 number Source name 1 Tampa Electric Company street address Port Sutton Rd. City Tampa ZIP 33601 County code 29 70 70 70 70 70 70 70 7 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (col 1-10 duplicate) Owner or Agent name 2 R. D. Welch street address P.O. Box 111 city Tampa 21p \$3601. |
| (col 1-10 duplicate) Application Type code 30 AP Section 3 Industry Type (SIC code) Location UTM East 07360100 North 3087400 Latitude deg 1 min sec Longitude deg min sec Effluent description Gannon Station |
| continued effication description (if needed) Soction 4 (col 1-10 duplicate) Units 1 to 6 |
| Liquid effluent disposal and analysis |
| (col 1-10 duplicate) Type of receiving body - code 5 (surface fresh = 1 , salt = 2 , etc.) (central sewer system = 7) |
| Additional description of surface waters - code (drainage ditch = 1 , river = 2 , etc.) |
| Record raw influent and final effluent analysis on water quality report forms, use agency code APPLIC if analysis is from applicant. |
| effluent flow rate MGD 45 |
| Liquid effluent additional remarks (col 1-10 duplicate) 6 |

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| BE21 AAAILABLE COPY |
|--------------------------------------------------------------------------------------------------------------------|
| AIR POLLUTION DISPOSAL AND ANALYSIS |
| (col 1-10 duplicate) Number of discharges this application 7 |
| Number of discharges, this site number currently not permitted Average total flow rate SCFM 30 |
| Total particulate, b/day sulfur oxides, lb/day |
| nitrogen oxides, lb/day fluoride lb/day other pollutants, lb/day |
| Section 8 SIGNIFICANT DATES AND PERMIT NUMBERS |
| (col 1-10 duplicate) Use month-day-year, all dates modyyr permit issued 8052573 Permit number A029-2191 |
| CONSTRUCTION PERMITS AND TEMPORARY PERMITS modyyr Project completion date 20 33 Permit expires 0.70175 34 39 |
| OPERATING PERMITS Temporary or old construction permit number |
| Implementation schedule; modyyr |
| A. Estimated filing of application B. Estimated start of construction |
| C. Estimated date for compliance |
| |

THE STATE OF STATE OF THE STATE

Gaman #1

March 10, 1977

MAR 15 1977

SOUTH WEST DISTRICE
ST., PETERSBURG

Mr. Asa B. Foster, Jr., P.E. Director
Air and Hazardous Materials
Division
United States Environmental
Protection Agency
345 Courtland Street, N.E.
Atlanta, Georgia 30308

Dear Mr. Foster:

Your letter of Pebruary 18, 1977 relative to Tampa Electric's Gannon Facility is answered as follows:

1. Gannon unit number 1. A permit application has been received by the Hillsborough County Environmental Protection Commission (HCEPC). However, HCEPC is holding up sending the application to our District Office until the source passes compliance testing.

The unit was compliance tested in November 1976, but test was rejected by HCEPC. Unit was re-tested on December 16, 1976, but report wasnot received by our District Office until February 28, 1977, and as yet has not been evaluated.

This unit burns #6 oil, one percent sulfur content, at a maximum rate of 1257 mm BTU/hr.

2. Gannon unit number 2. A permit request has been received by our District Office in October, 1976, but the compliance test was rejected. Unit was re-tested on November 22, 1976, but report was not received by our office until February 28, 1977, and as yet, has not been evaluated. Mr. Asa B. Foster, Jr., P.E. Page Two March 10, 1977

This unit burns #6 oil, one percent sulfur content, at a maximum rate of 1257 mm BTU/hr.

3. Gannon unit number 3 and 4. Permits have been issued to these sources to burn low sulfur fuel oil. See attached permits and their conditions.

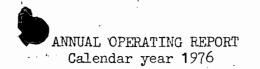
Units 1 and 2 will receive valid state permits when source tests have been evaluated and found to be in compliance. Permits will specify using low sulfur fuel. As soon as permits are issued to Gannon 1 and 2, copies of these permits will be forwarded to your office.

Sincerely,

John C. Bottcher
Director
Division of Environmental
Programs

JCB/wbr attachments

cc: J. P. Subramani
Banks Vest





| Submit | a | separate report for each permitted source by FEBRUARY 28, 1977 |
|-----------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SECTION | 1: | General SOURCE NAME: Tampa Electric Company (Gannon Unit 1) |
| | | MAILING ADDRESS: P. O. Box 111 (Attention: Jeff Rankin) 15 1977 |
| | | Tampa, Florida 33601 SOUTH WEST DISTRICT ST. PETERSBURG |
| | | TELEPHONE NO: 813/879-4111 |
| | | OPERATING PERMIT NO: None |
| | | SOURCE DESCRIPTION: Fossil-fuel steam generator |
| SECTION 2 | 2: | PROCESS OPERATIONS: |
| ē | а. | DURATION OF OPERATION AND FREQUENCY: 24 hrs/dy 7 dys/wk 52 wk/yr e.g. 8 hrs perday, 5 dys per wk and 50 wk/yr. actual hours operation 4075 |
| | b. | DESIGN CRITERIA: MAXIMUM QUTPUT 125 MW (from FPC-67 Form) e.g. 850 MW, 750 tons/dy |
| • | c. | NORMANX(AVERAGE) OUTPUT 73.8 MW (during actual hours of operation) e.g. 424 MW, 670 tons/dy. |
| | d. | MAXIMUM PEAK THAT OCCURED DURING ANY ONE DAY 90 MW e.g. 910 MW, 810 tons/dy. |
| SECTION 3 | 3: | PROCESS WEIGHT: TYPE(MATERIAL) INPUT PROCESS WEIGHT- DRY |
| | | tons/yr |
| | | N.A. tons/yr |
| | | tons/yr |
| SECTION 1 | † : | TOTAL AMOUNT OF FUEL USED. IF FUEL IS OIL, SPECIFY WEIGHT, e.g. NO 2, and % sulfur by weight. INCLUDE STANDBY FUELS. |
| | | 10 ⁶ cu ft 5232 10 ³ gal NO. ⁶ OIL . ⁹⁸ %SULFUR |
| | | 10 gal PROPANE 10 gal KEROSENE |
| | | 100,739 tons COAL 10 ⁶ 1b BLACK LIQUOR SOLIDS This unit was converted from coal OTHER, specify type and units to oil during 1976 |
| SECTION 5 | | EMISSION: ESTIMATED/TESTED EMISSIONS (TONS PER YEAR) |
| | | 309 tons of particulates 5787 tons of sulfur dioxide |
| , č | a. | |
| | | |
| | | tons of hydrocarbon tons (other). |
| t | ٠. | Particulates - from oil - gal. oil X gal. X BTU = tons particulate |
| | | BTU tons part. |
| | | from coal - tons coal X T coal X BTU = tons particulate BTU tons \$02 |
| | | SO_2 - from oil - gals. Oil X \overline{gal} X \overline{BTU} = tons SO_2 |
| | | from coal - tons coal X $\frac{\text{tons S}}{\text{tons coal X}} = \frac{\text{tons SO}_2}{\text{Tons S}} = \frac{\text{tons SO}_2}{\text{Tons S}} = \frac{\text{tons SO}_2}{\text{Tons SO}_2} = \text{tons SO$ |



ANNUAL OPERATING REPORT calendar year 1976

SECTION 5(cont't)

| DOLLON | <i>)</i> (0 | o., |
|--------|--------------|----------------------------------------------------------------------------------------------|
| | c. | STACK TESTED: Oct. 21,22, 1976 date (for particulates and sulfur dioxide) |
| | | STACK TEST CONDITIONS: 75 MW PROCESS RATE DURING TEST |
| | | STACK TEST CONDUCTED BY: Conservation Consultants, Inc. |
| | | Mr. Jose Rodriguez, HCEPC STACK TEST WITNESSED BY: Mr. Roger Pfaff, EPA, Region IV |
| ECTION | 6 : 、 | OPERATIONAL PROBLEMS, IF ANY: Routine |
| _ | | |
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| | | |
| | _ | IMPROVEMENTS MADE TO PROCESS/POLLUTION CONTROL EQUIPMENT: None |
| ٠ | a. | TMPHOVEMENTS MADE TO PROCESSY FOLICITION CONTROL EQUIPMENT: NOTE |
| • | | |
| | | TYPE OF MAINTENANCE PERFORMED. Routine |
| | ъ. | TYPE OF MAINTENANCE PERFORMED: KOUTINE |
| | • | |
| ٠ | C. | NUMBER OF UPSETS LASTING MORE THAN FOUR HOURS DURING THE YEAR: 0 |
| | d. | NUMBER OF UPSETS LASTING MORE THAN ONE HOUR BUT NOT MORE THAN FOUR HOURS: Unknown |
| | e. · | NUMBER OF UPSETS LASTING LESS THAN ONE HOUR: Unknown |
| | | |
| ERTIFI | CATI | ON: |
| • | | EREBY CERTIFY THAT THE INFORMATION GIVEN IN THIS REPORT IS CORRECT TO THE T OF MY KNOWLEDGE. |
| | DEA) | 1 OF MI KNOWDEDGE. |
| | | _ Clell Rain |
| | | Signature of owner or authorized representative |
| | | Alex Kaiser, Director of Power Plant Engineering |
| | | Typed name and title |
| | | April 5, 1977 |
| | | Date |

Additional stack test:

Stack tested: December 16, 1976 for sulfur dioxides
Stack test conditions: 70 MW process rate during test
Stack test conducted by: Environmental Science & Engineering, Inc.
Stack test witnessed by: Mr. Jim Tucker, HCEPC

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POST OFFICE BOX 111 TAMPA, FLORIDA 33601 TELEPHONE (B13) 876-4111

D. E. R.

February 22, 1977

FEB 28 1917
SOUTH WEST DISTRICT

Mr. Jim Tucker ST. PETERSBURG Hillsborough County Environmental Protection Commission 7402 N. 56th St., Bldg. 500 Tampa, Florida 33617 H.C.E.P.C.

RE: Sulfur Dioxide Emissions Test Gannon Units 1 and 2
Particulate Emissions Test Hookers Point Units 1, 2 and 3
Tampa Electric Company

Dear Mr. Tucker:

Attached are three copies each of the sulfur dioxide emissions test on Gannon Units 1 and 2 and the particulate emissions test on Hookers Point Units 1, 2 and 3 performed by Environmental Science & Engineering, Inc. As stated in the Executive Summary on Page iii of each report, the results indicate that Gannon Units 1 and 2 were operating within the Timits of compliance set forth in 17-2.04(6)(e)2c and that Hookers Point Units 1, 2 and 3 were operating within the limits of compliance set forth in 17-2.04(6)(e)2a and 17-2.04(6)(e)3b of the Rules of the State of Florida Administrative Code.

Also attached are the visible emissions reports for Hookers Point Boilers 1, 2 and 3, Sannon Unit No. 2, and Big Bend Unit No. 2. You will note that at Hookers Point and Big Bend more than one boiler was utilizing the stacks during the tests. However, the emissions were still below the allowable and, therefore, should not be a problem.

Mr. Jim Tucker February 22, 1977 Page 2

Also attached are copies of the process statement for each of the tests.

If you have any questions or require additional information, please contact us.

Yours very truly,

William N. Cantrell

Engineer

Environmental Planning

William 11. Cantrell

WNC:sac Attachments