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WEST CENTRAL REGION
WINTER HAVEN

State of Florida
Department of Air and Water Pollution Control

Application For Permit to Operate Air Pollution
Control Facilities

Applicant
(Owner or authorized agent)

H.A. Moshell, Jr.
General Manager of Production

(Name and Title)

Name of Establishment

TAMPA ELECTRIC COMPANY
F.J. Gannon Station - Peaking Unit

(Corporation, Company, Political SD, Firm, etc.)

Mailing Address

P.O. Box 111 TAMPA, FLA. 33601

Location of Pollution Source

Port Sutton Rd. Tampa
(Number and Street) (City)

Hillsborough
(County)

Nature of Industrial Operation

Generation of Electricity

Permit Applied For Operating:

Project Engineer:

New Source

B.D. Kitching
Name

Existing Source

Tampa Electric Company
Firm

Existing Source after modification

P.O. Box 111 Tampa, Fla. 33601
Mailing Address

Existing Source after Expansion

[Signature]
Signature

Existing Source After relocation,
expansion or reconstruction

6503
Florida Registration Number

For Department's Use Only

Permit No.

Peaking

Date:

The undersigned owner or authorized representative* of TAMPA ELECTRIC COMPANY
is fully aware that the statements made in this form and the attached exhibits and statements constitute the
application for a Operating Permit from the Florida Department of Air and Water Pollution
Control and certifies that the information in this application is true, correct and complete to the best of his
knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403 Florida
Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that the
Permit is non transferable and, if granted a permit, will promptly notify the Department upon sale or legal
transfer of the permitted establishment.

H. A. Moshell, Jr.

Signature of owner or agent.

H. A. Moshell, Jr.
General Manager of Production

Name and Title

Date: 2-25-71

*Attach letter of authorization.

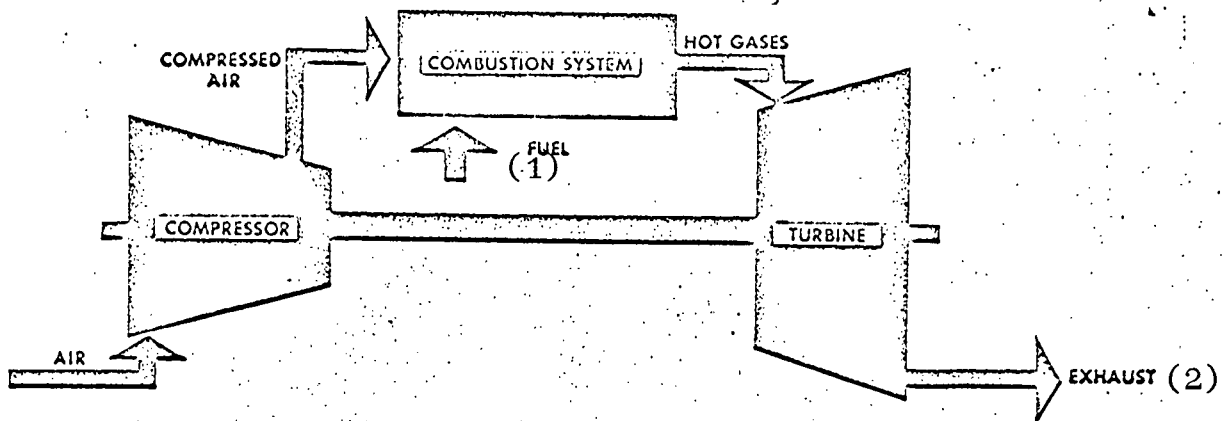
Information Regarding Pollution Sources
and Proposed Control Facilities

1. Estimated cost of proposed control facilities \$ 0.
2. Prepare and attach an 8½" x 11" flow diagram, without revealing trade secrets, identifying the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particulates are evolved and where finished products are obtained.
P. 3-D1
3. Include an 8½" x 11" plot plan showing location of manufacturing processes and location of outlets for airborne emissions. Relate all flows to the flow diagram.
P. 3-D2
4. Submit an 8½" x 11" plot plan showing the exact location of the establishment and points of discharge in relation to the surrounding area, residences and other permanent structures and roadways.
P. 3-D3

I General

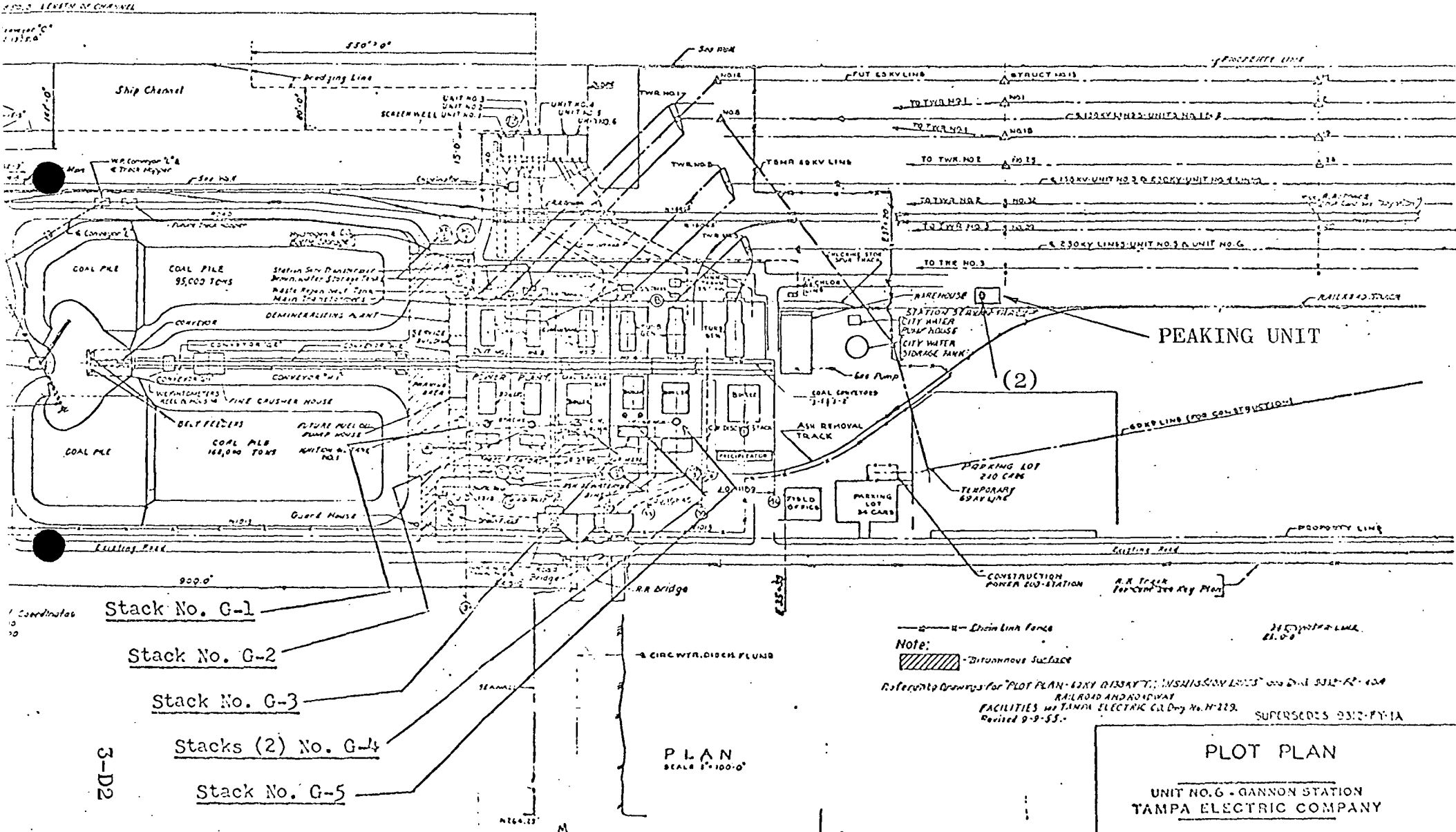
A. Raw Materials and Chemicals Used.

| Description | Utilization, Tons/day, Lbs./day, etc. | Approximate Contaminant Content | | Relate to Flow Diagram |
|-------------|--|---------------------------------------|-----------------------|------------------------------|
| | | Type | Percent Dry Weight | |
| None | | | | |



Schematic gas flow diagram.

KEY PLAN
Scale 1"=400'



Stack No. G-1

Stack No. G-2

Stack No. G-3

Stacks (2) No. G-4

Stack No. G-5

Note:
- Bituminous Surface

Refer to Drawings for PLOT PLAN - GANNON STATION PEAKING UNIT and UNIT NO. 2, 3 & 6 RAILROAD AND ADJACENT FACILITIES - TAMPA ELECTRIC CO. Div. No. N-219. Revised 9-9-55. SUPERSEDES 9312-PY-1A

PLAN
SCALE 1"=100'-0"

PLOT PLAN

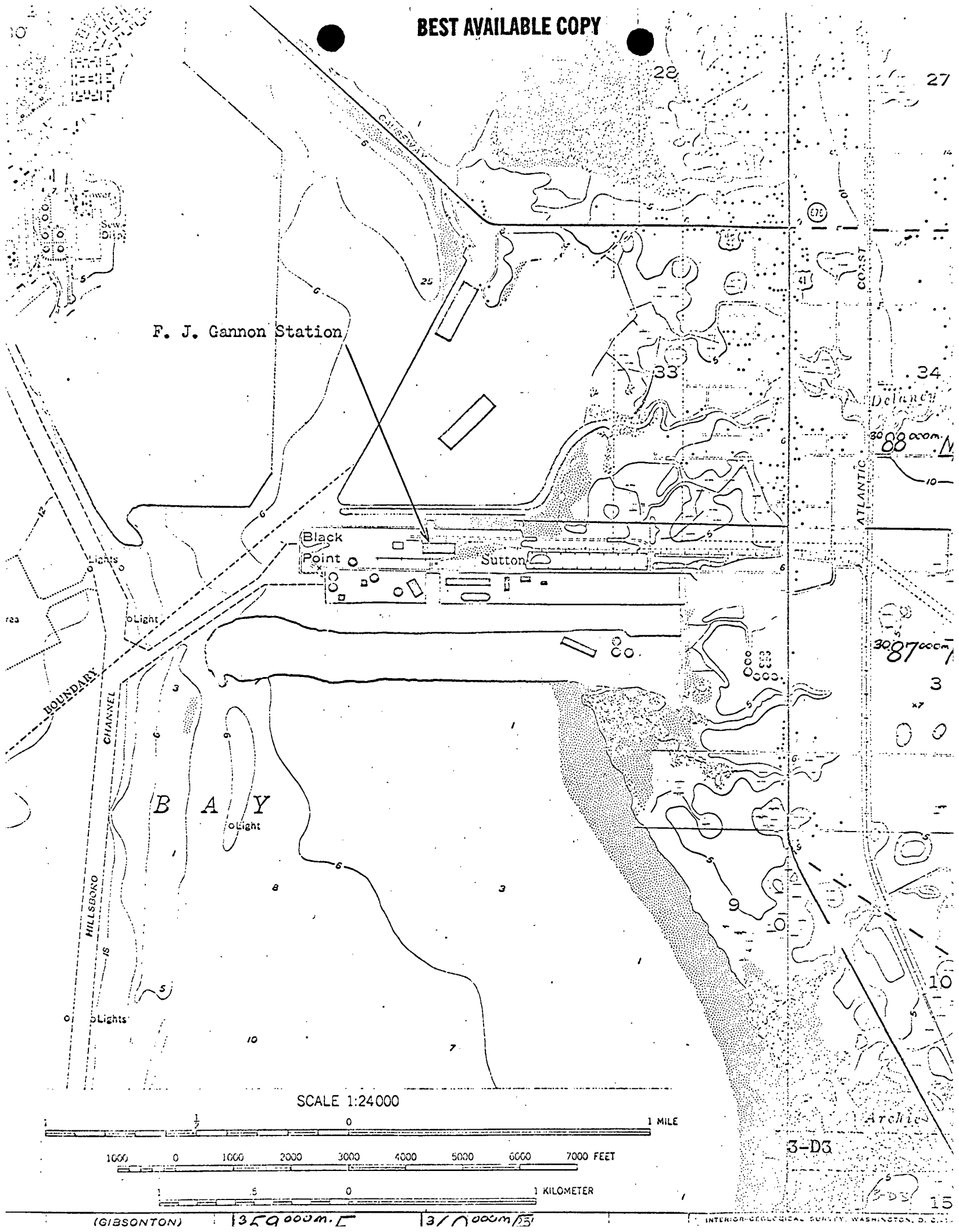
UNIT NO. 6 - GANNON STATION
TAMPA ELECTRIC COMPANY

GTORIC & WRIGHT ENGINEERING CORPORATION

DRAWING NUMBER 10845-FY-1A

5-D22

| NO. | DESCRIPTION | DATE | ISSUED FOR | BY | STATUS | DESCRIPTION | DATE | BY |
|-----|-------------|------|-----------------------|----|----------------|-------------|------|----|
| 1 | DESCRIPTION | | ISSUED FOR J.O. 11189 | | ORIGINAL ISSUE | | | |
| 2 | DESCRIPTION | | DESCRIPTION | | DESCRIPTION | | | |



F. J. Gannon Station

Black Point

Sutton

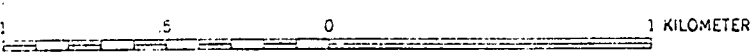
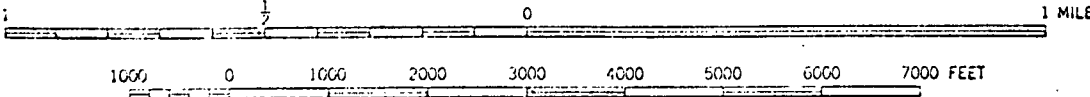
B A Y

BOUNDARY

HILLSBORO CHANNEL

ATLANTIC COAST

SCALE 1:24000



3-D3

Archie

Delaney

3000000m

3087000m

27

28

34

3

10

15

B. Fuels

| Type (Be Specific) | Note 1 Daily Consumption | Gross Maximum Heat Output | Relate to Flow Diagram |
|--------------------|-----------------------------|----------------------------|---------------------------|
| No. 2 Fuel Oil | 32,400 lb/day | 6.31×10^8 btu/day | (1) |

C. Products

| Description | Note 1 Average Daily Production (Tons/Day. Lbs/Hr. etc.) |
|-------------|--|
| Electricity | 34.8 MWH/day |

D. Normal operation: Hours/Day _____ Day and Week _____

If operation or process is seasonal, describe: This peaking unit is only run when additional generation is necessary to meet the demand.

II Identification of Air Contaminants

Compounds of:

Also -

- | | | | | | |
|----------|-------------------------------------|--------------|--------------------------|---------------|--------------------------|
| Chlorine | <input type="checkbox"/> | Hydrocarbons | <input type="checkbox"/> | Acid Mists | <input type="checkbox"/> |
| Flourine | <input type="checkbox"/> | Smoke | <input type="checkbox"/> | Odors | <input type="checkbox"/> |
| Nitrogen | <input type="checkbox"/> | Fly Ash | <input type="checkbox"/> | Radioisotopes | <input type="checkbox"/> |
| Sulfur | <input checked="" type="checkbox"/> | Dusts | <input type="checkbox"/> | Other _____ | <input type="checkbox"/> |

Specific Compounds SO_x

III Air Pollution Control Devices

| Contaminant | Control Device | Relate to Flow Diagram | Operating Efficiency | Conditions (Particle Size Range, Temp. etc.) |
|-----------------|----------------|------------------------|----------------------|--|
| SO _x | None | | | |
| | | | | |
| | | | | |
| | | | | |

Provide a brief description of the control device or treatment system. Attach separate sheets giving details regarding principle of operation, manufacturer, model, size, type and capacity of control/treatment device and the basis for calculating its efficiency. Show any bypasses of the control device and specify when such bypasses are to be used and under what conditions.

IV. Contaminant Balance

From contaminant content in raw materials, waste products, and manufactured products, summarize daily contaminant flow:

| | Pounds Contaminant per Day | |
|--|----------------------------|--------|
| | Input | Output |
| List Raw Materials: | | |
| Fuel Sulfur | 97.2 | |
| List Manufactured Products: | | |
| Electricity | | |
| List Solid Wastes: | | |
| None | | |
| List Liquid Wastes: | | |
| None | | |
| Totals | 97.2 | 0 |
| Airborne Wastes (Total input minus total output) | 97.2 | |

Note: If more than one contaminant, specify each
 Contaminants recovered in control devices should be shown as either a liquid or a solid waste.

V. Discharged Emmissions to Atmosphere

A. Discharge Points and Design Conditions

| Discharge Point Description | Relate to Flow Diagram | Height above Ground (ft.) | Cross Sect. Area (sq. ft.) | Note 2 Periods of Flow Hrs./ Day | days/ year | Temp. of Discharge (°F) |
|-----------------------------|------------------------|---------------------------|----------------------------|--|---------------|-------------------------|
| Stack | (2) | 30 | 80 | 3.94 | 86 | approx. 750 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

B. Tabulation of Discharged Contaminants

| | | Total Contaminants Discharged | | | | | |
|--|-------------------------------|---------------------------------|-----------|--|-----------|---------------------------------|-----------|
| Discharge Point - Relate to Flow Diagram | Flow Rate at Std. Cond. (cfm) | Particulates | | Other Contaminants (CO, SO₂, NO_x, H₂S) SO ₂ | | | |
| | | Gr/ft ³ (Std. Cond.) | lbs./ Day | Gr/ft ³ (Std. Cond.) | lbs./ Day | Gr/ft ³ (Std. Cond.) | lbs./ Day |
| Avg. Cond. Stack (2) | 156,500 | - | - | 0.0370 | 196 | | |
| Note 3 Peak Cond. Stack (2) | Note 4 156,500 | - | - | 0.0735 | - | | |
| Totals | | | | | 196 | | |

Note: Average conditions used are 20⁰ C and 1 atm.

VI. Treatment and Disposal of Liquid and
Solid Waste

1. Identify the contaminants which will be discharged as liquid or solid wastes.

None

2. Describe the treatment and disposal of liquid and solid wastes. Indicate the concentrations and volume of individual contaminants in treated wastes before disposal.

None

Note 1:

This figure is based on the days that the unit ran and not averaged over 365 days.

Note 2:

This information is based on actual operating data for the year 1970.

Note 3:

Peak load occurs approximately one percent of the total operating time.

Note 4:

The reason there is no change in flow rate between average condition and peak condition is that the compressor which supplies the combustion air runs at constant speed, thereby supplying a constant volume of air.