

### The City of Lake Worth Utilities Administration

### 1900 2ND AVENUE NORTH LAKE WORTH, FLORIDA 33461-4298

(561) 586-1665 FAX (561) 586-1702

June 12, 1996

Mr. John C. Brown, Jr. P.E. Section Administrator Title V Program Florida Department of Environmental Protection 2600 Blair Stone Road Tallahassee, Florida 32399-2400

RECEIVED

JIIN 1 0 1996

BUREAU OF AIR REGULATION

Subject:

Title V Air Permit Application for Tom G. Smith Municipal Power Plant

Lake Worth, Florida

Dear Mr. Brown:

The City of Lake Worth Utilities submits for your review, in hard copy format, one (1) original and three (3) copies of the attached Title V Air Permit Application for the Tom G. Smith Municipal Power Plant, Lake Worth, Florida.

If you have any questions, please direct them to William Michael at (407) 586-1672 or Margaret Johnstone at (407) 533-7384 of this office.

Sincerely,

CITM OF, LAKE WORTH UTILITIES

Harvey F. Wildschuetz, Utilities Director

Designated Representative

RECEIVED

JUN 13 1996

BUREAU OF AIR REGULATION

#### Attachments

c: AJ Satyal, Palm Beach County Health Department, w/o attachment Al Magley, Jr. P.E., Raytheon Engineers and Constructors Margaret Johnstone, Environmental Compliance Officer Lloyd Gibb, Power Resources Superintendent William Michael, Mechanical Systems Engineer

### **FINAL**

1990 Clean Air Act Amendment

Title V Operating Air Permit

for

City of Lake Worth Utilities Administration

Prepared by:

Raytheon Engineers & Constructors Inc. 501 E. Kennedy Boulevard Tampa, Florida 33602-5231

# Table of Contents Title V Operating Air Permit Application

| <u>Sec</u> | <u>tion</u> |   | <u>Page</u> |
|------------|-------------|---|-------------|
| 1          | Appli       | cation Information                                | 1           |
| Н          |             | ty Information                                    | 9           |
|            | Α.          | General Facility Information                      | 9           |
|            | В.          | Facility Regulations                              | 11          |
|            | C.          | Facility Pollutants                               | 13          |
|            | D.          | Facility Pollutant Detail Information             | 14          |
|            | Ε.          | Facility Supplemental Information                 | 15          |
| III.       | Emiss       | sions Unit Information                            | 17          |
|            | 1.          | Diesel Unit 1 - 5 (MU-1-5)                        | 17          |
|            |             | A. Type of Emissions Unit                         | 17          |
|            |             | B. General Emissions Unit Information             | 18          |
|            |             | C. Emissions Unit Detail Information              | 20          |
|            |             | D. Emissions Unit Regulations                     | . 21        |
|            |             | E. Emission Point (Stack/Vent) Information        | 23          |
|            |             | F. Segment (Process/Fuel) Information             | 25          |
|            |             | G. Emissions Unit Pollutants                      | 27          |
|            |             | H. Emissions Unit Pollutant Detail Information    | 28          |
|            |             | <ol> <li>Visible Emissions Information</li> </ol> | 40          |
|            |             | J. Continuous Monitor Information                 | 41          |
|            |             | K Prevention of Significant Deterioration (PSD)   |             |
|            |             | Increment Tracking Information                    | 42          |
|            |             | L. Emissions Unit Supplemental Information        | 44          |
|            | 2.          | Steam Generating Unit 1 (S-1)                     | 46          |
|            |             | A. Type of Emissions Unit                         | 46          |
|            |             | B. General Emissions Unit Information             | 47          |
|            |             | C. Emissions Unit Detail Information              | 49          |
|            |             | D. Emissions Unit Regulations                     | 50          |
|            |             | E. Emission Point (Stack/Vent) Information        | 52          |
|            |             | F. Segment (Process/Fuel) Information             | 54          |
|            |             | G. Emissions Unit Pollutants                      | 56          |
|            |             | H. Emissions Unit Pollutant Detail Information    | 57          |
|            |             | I. Visible Emissions Information                  | 69          |
|            |             | J. Continuous Monitor Information                 | 70          |
|            |             | K Prevention of Significant Deterioration (PSD)   |             |
|            |             | Increment Tracking Information                    | 71          |
|            |             | L. Emissions Unit Supplemental Information        | 73          |

| <u>Section</u> |   | Page |
|----------------|---|------|
| 3.             | Steam Generating Unit 3 (S-3)                     | 75   |
|                | A. Type of Emissions Unit                         | 75   |
|                | B. General Emissions Unit Information             | 76   |
|                | C. Emissions Unit Detail Information              | 78   |
|                | D. Emissions Unit Regulations                     | 79   |
|                | E. Emission Point (Stack/Vent) Information        | 81   |
|                | F. Segment (Process/Fuel) Information             | 83   |
|                | G. Emissions Unit Pollutants                      | 85   |
|                | H. Emissions Unit Pollutant Detail Information    | 86   |
|                | I. Visible Emissions Information                  | 100  |
|                | J. Continuous Monitor Information                 | 101  |
|                | K Prevention of Significant Deterioration (PSD)   |      |
|                | Increment Tracking Information                    | 104  |
|                | L. Emissions Unit Supplemental Information        | 106  |
| 4.             | Steam Generating Unit 4 (S-4)                     | 108  |
|                | A. Type of Emissions Unit                         | 108  |
|                | B. General Emissions Unit Information             | 109  |
|                | C. Emissions Unit Detail Information              | 111  |
|                | D. Emissions Unit Regulations                     | 112  |
|                | E. Emission Point (Stack/Vent) Information        | 114  |
|                | F. Segment (Process/Fuel) Information             | 116  |
|                | G. Emissions Unit Pollutants                      | 118  |
|                | H. Emissions Unit Pollutant Detail Information    | 119  |
|                | <ol> <li>Visible Emissions Information</li> </ol> | 133  |
|                | J. Continuous Monitor Information                 | 134  |
|                | K Prevention of Significant Deterioration (PSD)   | •    |
|                | Increment Tracking Information                    | 135  |
|                | L. Emissions Unit Supplemental Information        | 137  |
| 5.             | Gas Turbine (GT-1)                                | 139  |
|                | A. Type of Emissions Unit                         | 139  |
|                | B. General Emissions Unit Information             | 140  |
|                | C. Emissions Unit Detail Information              | 142  |
|                | D. Emissions Unit Regulations                     | 143  |
|                | E. Emission Point (Stack/Vent) Information        | 145  |
|                | F. Segment (Process/Fuel) Information             | 147  |
|                | G. Emissions Unit Pollutants`                     | 148  |
|                | H. Emissions Unit Pollutant Detail Information    | 149  |

| <u>Section</u> |  | <u>Page</u> |
|----------------|--|-------------|
|                | I. Visible Emissions Information                                       | 163         |
|                | J. Continuous Monitor Information                                      | 164         |
|                | K Prevention of Significant Deterioration (PSD)                        |             |
|                | Increment Tracking Information   | 165         |
|                | L. Emissions Unit Supplemental Information                             | 167         |
| 6.             | Combined Cycle (CC-1) [Combustion Turbine 2 / Steam Unit 5             |             |
|                | (GT-2/S-5)]  | 169         |
|                | A. Type of Emissions Unit  | 169         |
|                | B. General Emissions Unit Information                                  | 170         |
|                | C. Emissions Unit Detail Information                                   | 172         |
|                | D. Emissions Unit Regulations  | 173         |
|                | E. Emission Point (Stack/Vent) Information                             | 175         |
|                | F. Segment (Process/Fuel) Information                                  | 177         |
|                | G. Emissions Unit Pollutants   | 179         |
|                | H. Emissions Unit Pollutant Detail Information                         | 180         |
|                | <ol> <li>Visible Emissions Information</li> </ol>                      | 194         |
|                | J. Continuous Monitor Information                                      | 195         |
|                | K Prevention of Significant Deterioration (PSD)                        |             |
|                | Increment Tracking Information   | 196         |
|                | L. Emissions Unit Supplemental Information                             | 198         |
| 7.             | Fuel Oil Storage Tanks 3, 4, 5, 6 (T-3, T-4, T-5, T-6) and             |             |
|                | Lube Oil Tanks (OVERHAUL LO1 [5000gal], DISPOSALLO                     |             |
|                | [950 gal] and Fuel Oil Fittings and Pump Leaks.                        | 200         |
|                | A. Type of Emissions Unit  | 200         |
|                | B. General Emissions Unit Information                                  | 201         |
|                | C. Emissions Unit Detail Information (not applicable)                  |             |
|                | D. Emissions Unit Regulations  | 203         |
|                | E. Emission Point (Stack/Vent) Information                             | 205         |
|                | F. Segment (Process/Fuel) Information                                  | 207         |
|                | G. Emissions Unit Pollutants   | 209         |
|                | H. Emissions Unit Pollutant Detail Information                         | 210         |
|                | <ol> <li>Visible Emissions Information (not applicable)</li> </ol>     |             |
|                | <ul> <li>J. Continuous Monitor Information (not applicable)</li> </ul> |             |
|                | K Prevention of Significant Deterioration (PSD)                        |             |
|                | Increment Tracking Information (not applicable)                        |             |
|                | L. Emissions Unit Supplemental Information (not applicable)            |             |

| Section    |   |  | <u>Page</u>  |
|------------|---|--|--|
| 8.         | Fuel O<br>A.<br>B.<br>C.<br>D.<br>E.<br>F.<br>G.<br>H.<br>I.<br>J.<br>K | Type of Emissions Unit General Emissions Unit Information Emissions Unit Detail Information (not applicable) Emissions Unit Regulations Emission Point (Stack/Vent) Information Segment (Process/Fuel) Information Emissions Unit Pollutants Emissions Unit Pollutant Detail Information Visible Emissions Information (not applicable) Continuous Monitor Information (not applicable) Prevention of Significant Deterioration (PSD) Increment Tracking Information (not applicable) Emissions Unit Supplemental Information (not applicable) | 212<br>213<br>213<br>215<br>217<br>219<br>221<br>222 |
| 9.         | Fuel C<br>A.<br>B.<br>C.<br>D.<br>E.<br>F.<br>G.<br>H.<br>J.<br>K       | Type of Emissions Unit General Emissions Unit Information Emissions Unit Detail Information (not applicable) Emissions Unit Regulations Emission Point (Stack/Vent) Information Segment (Process/Fuel) Information Emissions Unit Pollutants Emissions Unit Pollutant Detail Information Visible Emissions Information (not applicable) Continuous Monitor Information (not applicable) Prevention of Significant Deterioration (PSD) Increment Tracking Information (not applicable) Emissions Unit Supplemental Information (not applicable) | 224<br>225<br>227<br>229<br>231<br>233<br>234        |
| Attachment | t A   | Are  | еа Мар   |
| Attachment | t В   | Facility PI  | ot Plan  |
| Attachment | t C   | Process Flow Dia   | agram <b>s</b>                                       |
| Attachment | t D   | Fuel Analyses and Specific   | cations  |
| Attachment | t E   | Stack Sampling Facilities Identif  | fication   |
| Attachment | t F   | Fugitive Em  | nissions   |

| Proposed Exempt Activities                      | Attachment G |
|---|--------------|
| Alternate Modes of Operation (Emission Trading) | Attachment H |
| Compliance Report                               | Attachment I |
| Compliance Statement                            | Attachment J |
| Additional Applicable Requirements              | Attachment K |
| Stack Test Results                              | Attachment L |
| Hazardous Air Pollutant Emission Calculations   | Attachment M |
| Acid Rain Application - Phase II                | Attachment N |

FLORIDA DEP LOGO

# Department of **Environmental Protection**

### DIVISION OF AIR RESOURCES MANAGEMENT

### APPLICATION FOR AIR PERMIT - LONG FORM

See Instructions for Form No. 62-210.900(1)

#### I. APPLICATION INFORMATION

This section of the Application for Air Permit form identifies the facility and provides general information on the scope and purpose of this application. This section also includes information on the owner or authorized representative of the facility (or the responsible official in the case of a Title V source) and the necessary statements for the applicant and professional engineer, where required, to sign and date for formal submittal of the Application for Air Permit to the Department. If the application form is submitted to the Department using ELSA, this section of the Application for Air Permit must also be submitted in hard-copy.

### **Identification of Facility Addressed in This Application**

Enter the name of the corporation, business, governmental entity, or individual that has ownership or control of the facility; the facility site name, if any; and the facility's physical location. If known, also enter the facility identification number.

| 1. Facility Owner/Company Name:           |                                 |  |  |
|---|---------------------------------|--|--|
| Lake Worth Utitilities                    |                                 |  |  |
| 2. Site Name:                             |                                 |  |  |
| Tom G. Smith Power Plant and Lake Worth W | ater Treatment Plant            |  |  |
| 3. Facility Identification Number:        | [ ] Unknown                     |  |  |
| •   | <u> </u>                        |  |  |
| 4. Facility Location:                     |                                 |  |  |
| Street Address or Other Locator: 117 Sout | h College Street                |  |  |
|   | Palm Beach Zip Code: 33460      |  |  |
| •   | <u>-</u>                        |  |  |
| 5. Relocatable Facility?                  | 6. Existing Permitted Facility? |  |  |
| [ ] Yes [X ] No                           | [X] Yes [] No                   |  |  |
|   |                                 |  |  |
|   |                                 |  |  |

### Application Processing Information (DEP Use)

| 1. Date of Receipt of Application: |  |
|------------------------------------|--|
| 2. Permit Number:                  |  |
| 3. PSD Number (if applicable):     |  |
| 4. Siting Number (if applicable):  |  |

### Owner/Authorized Representative or Responsible Official

- 1. Name and Title of Owner/Authorized Representative or Responsible Official: Harvey F. Wildschuetz/ Utilties Director
- 2. Owner/Authorized Representative or Responsible Official Mailing Address:

Organization/Firm: Lake Worth Utilities Street Address: 1900 2nd Avenue North

City: Lake Worth

State: Florida

Zip Code: 33461

12/96

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:

Telephone: (407)

586-1665

Fax: (407)586 -

-1702

4. Owner/Authorized Representative or Responsible Official Statement:

I, the undersigned, am the owner or authorized representative\* of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.

Signature

Effective: 3-21-96

Date

<sup>\*</sup> Attach letter of authorization if not currently on file.

### **Scope of Application**

This Application for Air Permit addresses the following emissions unit(s) at the facility. An Emissions Unit Information Section (a Section III of the form) must be included for each emissions unit listed.

| Emissions Unit ID | Description of Emissions Unit  | Permit<br>Type |
|-------------------|--|----------------|
| 1                 | MU-1 through MU-5; 5-2000 kW Diesel Generators (001-005)   |                |
| 2                 | S-1; Fossil Fuel Steam Generating Unit #1 (007)  | -              |
| 3                 | S-3; Fossil Fuel Steam Generating Unit #3 (009)  |                |
| 4                 | S-4; Fossil Fuel Steam Generating Unit #4 (010)  |                |
| 5                 | GT-1; Gas Turbine #1 (006)   |                |
| 6                 | CC1 (GT-2/S-5); Combined Cycle Combustion Turbine 2/Steam Unit 5 (011)   |                |
| 7                 | T-3, T-4, T-5, T-6 fuel Oil Storage Tanks; 5000 gallon and 950 gallon Lube Oil Storage Tanks and Fuel Oil Fittings and Pumps |                |
| 8                 | T-10 and T-11 Fuel Oil Storage Tanks   |                |
| 9                 | T-8 and T-12; Fuel Oil Storage Tanks   |                |
|                   |  |                |
|                   |  |                |
|                   |  |                |
|                   |  |                |
|                   |  |                |
|                   |  |                |
|                   |  |                |
|                   |  |                |

### Purpose of Application and Category

Check one (except as otherwise indicated):

Category I: All Air Operation Permit Applications Subject to Processing Under Chapter 62-213, F.A.C.

This Application for Air Permit is submitted to obtain:

| [X | ] | Initial air operation permit under Chapter 62-213, F.A.C., for an existing facility which is classified as a Title V source.   |
|----|---|--|
| [  | ] | Initial air operation permit under Chapter 62-213, F.A.C., for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.                                |
|    |   | Current construction permit number:  |
| [  | ] | Air operation permit renewal under Chapter 62-213, F.A.C., for a Title V source.   |
|    |   | Operation permit to be renewed:  |
| [  | ] | Air operation permit revision for a Title V source to address one or more newly constructed or modified emissions units addressed in this application.   |
|    |   | Current construction permit number:  |
|    |   | Operation permit to be revised:  |
| [  | ] | Air operation permit revision or administrative correction for a Title V source to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. Also check Category III.                |
|    |   | Operation permit to be revised/corrected:  |
| [  | ] | Air operation permit revision for a Title V source for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal. |
|    |   | Operation permit to be revised:  |
|    |   | Reason for revision:   |
|    |   |  |

# Category II: All Air Operation Permit Applications Subject to Processing Under Rule 62-210.300(2)(b), F.A.C.

| T   | his Application for Air Permit is submitted to obtain:  |  |
|---|---|--|
| [ ] Initial air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing seeking classification as a synthetic non-Title V source. |   |  |
|   | Current operation/construction permit number(s):  |  |
| [   | ] Renewal air operation permit under Rule 62-210.300(2)(b), F.A.C., for a synthetic non-Titl V source.  |  |
|   | Operation permit to be renewed:   |  |
| ]   | ] Air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units. |  |
|   | Operation permit to be revised:   |  |
|   | Reason for revision:  |  |
|   |   |  |
| C   | ategory III: All Air Construction Permit Applications for All Facilities and Emissions Units  |  |
| T   | his Application for Air Permit is submitted to obtain:  |  |
| [   | ] Air construction permit to construct or modify one or more emissions units within a facility (including any facility classified as a Title V source).                   |  |
|   | Current operation permit number(s), if any:   |  |
| [   | ] Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.             |  |
|   | Current operation permit number(s):   |  |
| [   | ] Air construction permit for one or more existing, but unpermitted, emissions units.   |  |

| Application Processing Fee  |                      |  |  |  |
|---|----------------------|--|--|--|
| Check one:  |                      |  |  |  |
| [ ] Attached - Amount: \$   | [x ] Not Applicable. |  |  |  |
| Construction/Modification Information   |                      |  |  |  |
| 1. Description of Proposed Project or Alterations:  |                      |  |  |  |
|   |                      |  |  |  |
|   |                      |  |  |  |
|   |                      |  |  |  |
|   |                      |  |  |  |
|   |                      |  |  |  |
|   |                      |  |  |  |
|   |                      |  |  |  |
|   |                      |  |  |  |
|   |                      |  |  |  |
| 2. Projected or Actual Date of Commencement of Cons   | struction:           |  |  |  |
| 3. Projected Date of Completion of Construction:  |                      |  |  |  |
| 3. Projected Date of Completion of Construction.  |                      |  |  |  |
|   |                      |  |  |  |
| Professional Engineer Certification   |                      |  |  |  |
| 1. Professional Engineer Name: Albert D. Magley, Jr.  |                      |  |  |  |
| Registration Number: PE 0046104  2. Professional Engineer Mailing Address:                      |                      |  |  |  |
| 2. Trotessional Engineer Maining Address.   |                      |  |  |  |
| Organization/Firm: Raytheon Engineers & Construct<br>Street Address: 501 East Kennedy Boulevard | ors, Inc.            |  |  |  |
| City: Tampa State: Flori  | da Zip Code: 33602   |  |  |  |
| 3. Professional Engineer Telephone Numbers:   |                      |  |  |  |
| Telephone: (813 )209 -2535 Fax  | : (813 )209 -2916    |  |  |  |

6

DEP Form No. 62-210.900(1) - Form

- 4. Professional Engineer Statement:
  - I, the undersigned, hereby certify, except as particularly noted herein\*, that:
  - (1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and
  - (2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [X] if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [ ] if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [ ] if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Allut 2. Mayle 5/29/96.

Signature Date

\* Attach any exception to certification statement.

STATE OF STA

7

DEP Form No. 62-210.900(1) - Form

### **Application Contact**

| Will | Name and Title of Application Contact:     William C. Michael     Mechanical Systems Engineer                       |                |                 |  |  |
|------|---|----------------|-----------------|--|--|
| 1    | Application Contact Mailing Address:  Organization/Firm: Lake Worth Utilities Street Address: 1900 2nd Avenue North |                |                 |  |  |
|      | City: Lake Worth  | State: Florida | Zip Code: 33461 |  |  |
|      | Application Contact Telephone Numbers Telephone: (407)586 -1672   | Fax: (407 )58  | 86 -1702        |  |  |

### **Application Comment**

### II. FACILITY INFORMATION

### A. GENERAL FACILITY INFORMATION

### Facility Location and Type

| 1. | Facility UTM Coor                        | dinates:                   |   |                          |
|----|--|----------------------------|---|--------------------------|
|    | Zone:17                                  | East (km)                  | :592.8 No                                 | orth (km):2943.7         |
| 2. | Facility Latitude/Lo<br>Latitude (DD/MM/ | _                          | ongitude (DD/MM/SS)                       | :80/04/04                |
| 3. | Governmental Facility Code:4             | 4. Facility Status Code: A | 5. Facility Major<br>Group SIC<br>Code:49 | 6. Facility SIC(s): 4931 |
| 7. | Facility Comment (                       | limit to 500 characters):  |   |                          |

### **Facility Contact**

| 1. Name and Title of Facility Contact: Harvey F. Wildshuetz/Utilities Director |  |                |                 |  |  |
|--|--|----------------|-----------------|--|--|
| 2.   | Facility Contact Mailing Address: Organization/Firm: Lake Worth Utilities Street Address: 1900 2nd Avenue North City: Lake Worth | State: Florida | Zip Code: 33461 |  |  |
| 3.   | Facility Contact Telephone Numbers:<br>Telephone: (407)586 -1666   | Fax: (407      | ' )586 -1702    |  |  |

9

### Facility Regulatory Classifications

| 1.  | Small Business Stationary So   | urce  | ?    |          |                     |       |           |
|-----|--------------------------------|-------|------|----------|---------------------|-------|-----------|
|     | [ ] Yes                        | [x    | ]    | No       |                     | [     | ] Unknown |
| 2.  | Title V Source?                |       |      |          |                     |       |           |
|     | [x ] Yes                       | [     | ]    | No       |                     |       |           |
| 3.  | Synthetic Non-Title V Source   | e?    |      |          |                     |       |           |
|     | [ ] Yes                        | [x    | ]    | No       |                     |       |           |
| 4.  | Major Source of Pollutants C   | )ther | · tł | nan Ha   | zardous Air Pollu   | ıtant | s (HAPs)? |
|     | [x ] Yes                       | [     | ]    | No       |                     |       |           |
| 5.  | Synthetic Minor Source of Po   | ollut | an   | ts Othe  | er than HAPs?       |       |           |
|     | [ ] Yes                        | [x    | ]    | No       |                     |       |           |
| 6.  | Major Source of Hazardous      | Air I | Pol  | lutants  | s (HAPs)?           |       |           |
|     | [ ] Yes                        | [x    | ]    | No       |                     |       |           |
| 7.  | Synthetic Minor Source of H    | APs   | ?    |          |                     |       |           |
|     | [ ] Yes                        | [x    | ]    | No       |                     |       |           |
| 8.  | One or More Emissions Units    | s Su  | bje  | ect to N | VSPS?               |       |           |
|     | [ ] Yes                        | [x    | ]    | No       |                     |       |           |
| 9.  | One or More Emission Units     | Sub   | jed  | ct to N  | ESHAP?              |       |           |
|     | [ ] Yes                        | [x    | ]    | No       |                     |       |           |
| 10. | Title V Source by EPA Desig    | gnati | on   | 1?       |                     |       |           |
|     | [ ] Yes                        | [x    | ]    | No       |                     |       |           |
| 11. | Facility Regulatory Classifica | tion  | s (  | Comme    | ent (limit to 200 c | hara  | cters):   |
|     |                                |       |      |          |                     |       |           |
|     |                                |       |      |          |                     |       |           |
|     |                                |       |      |          |                     |       |           |
|     |                                |       |      |          |                     |       |           |
|     |                                |       |      |          |                     |       |           |
|     |                                |       |      |          |                     |       |           |
|     |                                |       |      |          |                     |       |           |
|     |                                |       |      |          |                     |       |           |
|     |                                |       |      |          |                     |       |           |

10

DEP Form No. 62-210.900(1) - Form

### **B. FACILITY REGULATIONS**

<u>Rule Applicability Analysis</u> (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

| N/A |  |
|-----|--|
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |

# <u>List of Applicable Regulations</u> (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

| Federal:                    | Acid Rain Program                          |
|-----------------------------|--|
| 40 CFR 72                   | COO Aller C. A                             |
| 40 CFR 73                   | SO2 Allowance System                       |
| 40 CFR 75                   | Continuous Emissions Monitoring            |
| State: 62-4, F.A.C.         | General Permitting Requirements            |
| 62-210, F.A.C.              | Stationary Sources - General Requirements  |
| 62-213, F.A.C.              | Title V Permitting Requirements            |
| 62-214, F.A.C.              | Acid Rain Program                          |
| 62-275.410, F.A.C.          | Air Quality Areas - Ozone Nonattainment    |
| 62-296, F.A.C.              | NOx RACT                                   |
| Title V Core List (3/25/96) | Presumptively Applicable (Federal & State) |
|                             |  |
|                             |  |
|                             |  |
|                             |  |
|                             |  |
|                             |  |
|                             |  |
|                             |  |
|                             |  |

### C. FACILITY POLLUTANTS

### **Facility Pollutant Information**

| SO2          NOX          PM          CO          VOC | 2. Pollutant Classification A A A |
|---|-----------------------------------|
| NO <sub>X</sub> PM CO VOC                             | A                                 |
| PM ZCO Z  |                                   |
| CO Z  | n e                               |
| VOC   | A                                 |
|   | В                                 |
| $PM_{10}$   |                                   |
|   | A                                 |
|   | B                                 |
|   | В                                 |
|   | B                                 |
|   | <u>B</u>                          |
|   | В                                 |
|   | В                                 |
|   | В                                 |
| H104  | В                                 |
|   | В                                 |
| H015  | В                                 |
| H027  | В                                 |
| H046  | В                                 |
| H047  | В                                 |
| H113  | В                                 |
| H133  | В                                 |
| H162  | В                                 |
| H021  | В                                 |
| H148  | В                                 |
|   |                                   |

DEP Form No. 62-210.900(1) - Form

### D. FACILITY POLLUTANT DETAIL INFORMATION

### Facility Pollutant Detail Information: Pollutant \_\_\_\_\_ of \_\_\_\_

| 1.        | Pollutant Emitted:                                      |                       |             |
|-----------|---|-----------------------|-------------|
| 2.        | Requested Emissions Cap:                                | (lb/hour)             | (tons/year) |
| 3.        | Basis for Emissions Cap Code:                           |                       | -           |
| 4.        | Facility Pollutant Comment (limi                        | t to 400 characters): |             |
|           |   |                       |             |
|           |   |                       |             |
|           |   |                       |             |
|           |   |                       |             |
|           |   |                       |             |
|           |   |                       |             |
|           |   |                       |             |
|           |   |                       |             |
| <u>Fa</u> | cility Pollutant Detail Informati                       | ion: Pollutant of     |             |
| 1.        | Pollutant Emitted:                                      |                       |             |
|           |   |                       |             |
| 2.        | Requested Emissions Cap:                                | (lb/hour)             | (tons/year) |
|           | Requested Emissions Cap:  Basis for Emissions Cap Code: | (lb/hour)             | (tons/year) |
| 3.        |   |                       | (tons/year) |
| 3.        | Basis for Emissions Cap Code:                           |                       | (tons/year) |
| 3.        | Basis for Emissions Cap Code:                           |                       | (tons/year) |
| 3.        | Basis for Emissions Cap Code:                           |                       | (tons/year) |
| 3.        | Basis for Emissions Cap Code:                           |                       | (tons/year) |
| 3.        | Basis for Emissions Cap Code:                           |                       |             |
| 3.        | Basis for Emissions Cap Code:                           |                       |             |
| 3.        | Basis for Emissions Cap Code:                           |                       |             |

14

DEP Form No. 62-210.900(1) - Form

### E. FACILITY SUPPLEMENTAL INFORMATION

### **Supplemental Requirements for All Applications**

| -                    |   |
|----------------------|---|
| 1.                   | Area Map Showing Facility Location:  [x ] Attached, Document ID: Att. A [ ] Not Applicable [ ] Waiver Requested   |
|                      |   |
| 2.                   | Facility Plot Plan:   |
|                      | [x ] Attached, Document ID: Att. B [ ] Not Applicable [ ] Waiver Requested  |
| 3.                   | Process Flow Diagram(s):  |
|                      | [x ] Attached, Document ID: Att. C [ ] Not Applicable [ ] Waiver Requested  |
| 4.                   | Precautions to Prevent Emissions of Unconfined Particulate Matter:  |
|                      | [ ] Attached, Document ID: [x ] Not Applicable [ ] Waiver Requested   |
| 5.                   | Fugitive Emissions Identification:  |
|                      | [x ] Attached, Document ID: Att.F [ ] Not Applicable [ ] Waiver Requested   |
| 6.                   | Supplemental Information for Construction Permit Application:   |
|                      | [ ] Attached, Document ID: [x ] Not Applicable  |
|                      |   |
| <u>A</u> 0           | Iditional Supplemental Requirements for Category I Applications Only  |
|                      | List of Proposed Exempt Activities:   |
|                      |   |
| 7.                   | List of Proposed Exempt Activities:   |
| 7.                   | List of Proposed Exempt Activities:  [x ] Attached, Document ID: Att. G [ ] Not Applicable  |
| 7.                   | List of Proposed Exempt Activities:  [x ] Attached, Document ID: Att. G [ ] Not Applicable  List of Equipment/Activities Regulated under Title VI:  |
| 7.                   | List of Proposed Exempt Activities:  [x ] Attached, Document ID: Att. G [ ] Not Applicable  List of Equipment/Activities Regulated under Title VI:  [ ] Attached, Document ID:  |
| 8.                   | List of Proposed Exempt Activities:  [x ] Attached, Document ID:_Att. G_ [ ] Not Applicable  List of Equipment/Activities Regulated under Title VI:  [ ] Attached, Document ID:  [ ] Equipment/Activities On site but Not Required to be Individually Listed  [x ] Not Applicable                                   |
| 8.                   | List of Proposed Exempt Activities:  [x ] Attached, Document ID:_Att. G_ [ ] Not Applicable  List of Equipment/Activities Regulated under Title VI:  [ ] Attached, Document ID:  [ ] Equipment/Activities On site but Not Required to be Individually Listed  |
| 7.       8.       9. | List of Proposed Exempt Activities:  [x ] Attached, Document ID: Att. G [ ] Not Applicable  List of Equipment/Activities Regulated under Title VI:  [ ] Attached, Document ID:  [ ] Equipment/Activities On site but Not Required to be Individually Listed  [x ] Not Applicable  Alternative Methods of Operation: |

DEP Form No. 62-210.900(1) - Form

| 11. Identification of Additional Applicable Requirements:                        |
|--|
| [ ] Attached, Document ID: [x ] Not Applicable                                   |
|  |
| 12. Compliance Assurance Monitoring Plan:  |
| [ ] Attached, Document ID: [ ] Not Applicable                                    |
| 13. Risk Management Plan Verification:   |
|  |
| [ ] Plan Submitted to Implementing Agency - Verification Attached,  Document ID: |
| [x ] Plan to be Submitted to Implementing Agency by Required Date                |
| [ ] Not Applicable   |
| 14. Compliance Report and Plan:  |
|  |
| [x ] Attached, Document ID: Att. I [ ] Not Applicable                            |
| 15. Compliance Certification (Hard-copy Required):                               |
| [x ] Attached, Document ID: Att. J [ ] Not Applicable                            |
|  |

| Emissions Unit Information Section 1 of 9 | , |  |
|---|---|--|
|---|---|--|

### III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions

| Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked. |
|--|
| A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)  |
| Type of Emissions Unit Addressed in This Section   |
| 1. Regulated or Unregulated Emissions Unit? Check one:   |
| [X ] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.  |
| [ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.  |
| 2. Single Process, Group of Processes, or Fugitive Only? Check one:  |
| [ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).  |
| [X] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.  |
| [ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.   |
|  |

17

| Emissions Unit Information Section 1 of 9 | En | nissions | Unit | Informatio | n Section | 1 | of | 9 |  |
|---|----|----------|------|------------|-----------|---|----|---|--|
|---|----|----------|------|------------|-----------|---|----|---|--|

## B. GENERAL EMISSIONS UNIT INFORMATION (Regulated and Unregulated Emissions Units)

### **Emissions Unit Description and Status**

| 1. Description of Emissions Unit Addressed i   | n This Section (lim | nit to 60 characters):  |  |  |  |  |
|--|---------------------|-------------------------|--|--|--|--|
| Diesel Generators Units 1-5: each 2000 kW      |                     | ,                       |  |  |  |  |
| 210001 20101111012 2 11 011011 2010 11 11      |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
| 2. Emissions Unit Identification Number: [     | ] No Correspon      | nding ID [x ] Unknown   |  |  |  |  |
|  |                     |                         |  |  |  |  |
| 3. Emissions Unit Status 4. Acid Rair          | Unit?               | 5. Emissions Unit Major |  |  |  |  |
|  | [x ] No             | Group SIC Code: 49      |  |  |  |  |
|  | [X ] NO             | Group Sie Code. 47      |  |  |  |  |
|  |                     |                         |  |  |  |  |
| 6. Emissions Unit Comment (limit to 500 cha    | racters):           |                         |  |  |  |  |
| · ·  | ,                   |                         |  |  |  |  |
| Emission Unit Identification Numbers for the   | ive Units are 001   | 002 003 004 and 005     |  |  |  |  |
| Emission Office Identification Numbers for the | ive Office are out, | 002, 003, 004 and 003   |  |  |  |  |
|  |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
| Endadas III-14 Control Endaged                 |                     |                         |  |  |  |  |
| Emissions Unit Control Equipment               |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
| <b>A.</b>                                      |                     |                         |  |  |  |  |
| 1. Description (limit to 200 characters):      |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
|  | •                   |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
|  |                     | •                       |  |  |  |  |
|  |                     |                         |  |  |  |  |
|  |                     |                         |  |  |  |  |
| 2. Control Device or Method Code:              |                     |                         |  |  |  |  |
| 2. Control Device of Method Code.              |                     |                         |  |  |  |  |

18

DEP Form No. 62-210.900(1) - Form

# Emissions Unit Information Section \_\_\_1\_\_ of \_\_\_9\_\_\_ B.

| B. |  |
|----|--|
| 1. | Description (limit to 200 characters): |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
| 2. | Control Device or Method Code:         |
|    | <u></u>                                |
| C. |  |
|    | Description (limit to 200 characters): |
|    | (                                      |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |

| Emissions | Unit | Information | Section | 1 | of | 9 |  |
|-----------|------|-------------|---------|---|----|---|--|
|           |      |             |         |   |    |   |  |

### C. EMISSIONS UNIT DETAIL INFORMATION (Regulated Emissions Units Only)

### **Emissions Unit Details**

| 1. | Initial Startup Date: 1965           |       |               |          |
|----|--------------------------------------|-------|---------------|----------|
| 2. | Long-term Reserve Shutdown Date:     |       |               |          |
| 3. | Package Unit:                        |       |               |          |
|    | Manufacturer:                        |       | Model Number: |          |
| 4. | Generator Nameplate Rating: 2        |       | MW each       |          |
| 5. | Incinerator Information:             |       |               |          |
|    | Dwell Temperature:                   |       |               | °F       |
|    | Dwell Time:                          |       |               | seconds  |
|    | Incinerator Afterburner Temperature: |       |               | °F       |
| Er | nissions Unit Operating Capacity     |       |               |          |
| 1. | Maximum Heat Input Rate: 21 Each     | _     |               | mmBtu/hr |
| 2. | Maximum Incineration Rate:           | lb/hr |               | tons/day |
| 3. | Maximum Process or Throughput Rate:  |       | _             |          |
| 4. | Maximum Production Rate:             |       |               |          |

5. Operating Capacity Comment (limit to 200 characters):

### **Emissions Unit Operating Schedule**

| Requested Maximum Operating Schedule: |                  |            |
|---------------------------------------|------------------|------------|
| hours/day                             |                  | days/week  |
| weeks/year                            | 8760 <b>Each</b> | hours/year |

| Emissions | Unit Information | Section | _1 | of | 9 |
|-----------|------------------|---------|----|----|---|
|           |                  |         |    |    |   |

# D. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

| Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.) |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

| Emissions Unit Information Section | 1 | of | 9 |
|------------------------------------|---|----|---|
|------------------------------------|---|----|---|

<u>List of Applicable Regulations</u> (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

| Federal: None               |   |
|-----------------------------|---|
| State:                      | Permitting Requirements                                 |
| 62-4, F.A.C.                |   |
| 62-210, F.A.C.              | Stationary Sources - General Requirements               |
| 62-213, F.A.C.              | Title V Permitting Requirements                         |
| 62-275.410, F.A.C.          | Air Quality Areas - Ozone Nonattainment                 |
| 62-296.310(2)(a), F.A.C.    | Stationary Sources - Visible Emissions<br>Standards     |
| 62-296.570 (4)(b)(7)        | NOx RACT Limitations                                    |
| 62-297.410(9), F.A.C.       | Stationary Sources - EPA Method 9 for Visible Emissions |
| Title V Core List (3/25/96) | Presumptively Applicable (Federal & State)              |
| Local: None                 |   |
| -                           |   |
|                             |   |
|                             |   |
|                             |   |
|                             |   |
|                             |   |
|                             |   |
|                             |   |
|                             |   |

| Emissions | Unit | Information | Section | 1 | of | 9 |  |
|-----------|------|-------------|---------|---|----|---|--|
|           |      |             |         |   |    |   |  |

# E. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

### **Emission Point Description and Type**

| 1. | Identification of Point on Plot Plan                         | n or Flow Diagra                         | am: MU-1, MU-2, MU-3,       | MU-4, MU-5       |
|----|--|--|-----------------------------|------------------|
| 2  | Emission Point Type Code:                                    |  |                             |                  |
| 2. | [ ] 1  [ ] 2   | [X ] 3                                   | [ ] 4                       |                  |
|    |  |  |                             |                  |
| 3. | Descriptions of Emissions Points (100 characters per point): | Comprising this 1                        | Emissions Unit for VE Tr    | acking (limit to |
| 1  | MU-1 Diesel Generating Unit 1                                |  |                             |                  |
|    | MU-2 Diesel Generating Unit 2                                |  |                             |                  |
|    | <del>_</del>   |  |                             |                  |
|    | MU-3 Diesel Generating Unit 3                                |  |                             |                  |
|    | MU-4 Diesel Generating Unit 4                                |  |                             |                  |
| 5. | MU-5 Diesel Generating Unit 5                                |  |                             |                  |
|    |  |  |                             |                  |
|    |  |  |                             |                  |
|    |  |  |                             |                  |
|    |  |  |                             |                  |
|    |  |  |                             |                  |
|    |  |  |                             |                  |
|    | TD 1 D 1 1 CD  | * * ** * * * * * * * * * * * * * * * * * |                             | <u> </u>         |
|    | ID Numbers or Descriptions of En                             | nission Units wil                        | th this Emission Point in C | common:          |
| N/ | /A   |  |                             |                  |
|    |  |  |                             |                  |
|    |  |  |                             |                  |
|    |  |  |                             |                  |
|    |  |  |                             |                  |
|    |  |  |                             |                  |
| 5. | Discharge Type Code:   |  |                             |                  |
|    | [ ] D [ ] F  | [ ] H                                    | [ ] P                       |                  |
|    | [ ] R [X ] V   | ίiw                                      |                             |                  |
|    | [ ]  |  |                             |                  |
| 6  | Stack Height: 16.5   |  | feet                        |                  |
| 0. | Stack Height. 10.5   |  | 1001                        |                  |
| 7  | Errit Diameter: 1 92   | _  | Foot                        | <del>-</del>     |
| 7. | Exit Diameter: 1.83  |  | feet                        |                  |
| _  | Ti i m   |  | 227                         |                  |
| ბ. | Exit Temperature: 667  |  | °F                          |                  |
|    |  |  |                             |                  |
|    |  |  |                             |                  |

### Emissions Unit Information Section \_\_\_1\_\_ of \_\_\_9\_\_

| 9. Actual Volumetri  | c Flow Rate: 19208                    | acfm                                    |
|----------------------|---------------------------------------|---|
| 10. Percent Water Va | ipor :                                | %                                       |
| 11. Maximum Dry St   | andard Flow Rate:                     | dscfm                                   |
| 12. Nonstack Emissi  | on Point Height:                      | feet                                    |
| 13. Emission Point U | TM Coordinates                        | • |
| Zone: 17             | East (km): 592.8                      | North (km): 2943.7                      |
| 14. Emission Point C | omment (limit to 200 characters)      | ):                                      |
| The operations param | neter for all five diesel units are i | dentical.                               |
|                      |                                       |   |
|                      |                                       |   |
|                      |                                       |   |
|                      |                                       |   |
|                      |                                       |   |
|                      |                                       |   |
|                      |                                       |   |
|                      |                                       |   |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 1 | of | 9 |
|------------------------------------|---|----|---|
|------------------------------------|---|----|---|

# F. SEGMENT (PROCESS/FUEL) INFORMATION (Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment \_\_l\_\_ of \_\_l\_\_

| <ol> <li>Segment Description (Process/Fuel Type and (limit to 500 characters):</li> <li>#2 Diesel Fuel Used in a Diesel Generator</li> </ol> | nd Associated Operating Method/Mode)            |
|--|---|
| 2. Source Classification Code (SCC):   |   |
| 20100102   |   |
| 3. SCC Units:<br>1000 gallons burned   |   |
| 4. Maximum Hourly Rate: 0.15 1000 gal/hr   | 5. Maximum Annual Rate: 1320.603<br>1000 gal/yr |
| 6. Estimated Annual Activity Factor:   |   |
| 7. Maximum Percent Sulfur: 0.23  | 8. Maximum Percent Ash:                         |
| 9. Million Btu per SCC Unit: 139.30  |   |
| 10. Segment Comment (limit to 200 characters)  |   |

25

| <u>Se</u> | gment Description and Rate: Segment                               | of                                      |  |  |  |  |
|-----------|---|---|--|--|--|--|
| 1.        | Segment Description (Process/Fuel Type (limit to 500 characters): | e and Associated Operating Method/Mode) |  |  |  |  |
| 2.        | Source Classification Code (SCC):                                 |   |  |  |  |  |
| 3.        | SCC Units:  |   |  |  |  |  |
| 4.        | Maximum Hourly Rate:  | 5. Maximum Annual Rate:                 |  |  |  |  |
| 6.        | Estimated Annual Activity Factor:                                 |   |  |  |  |  |
| 7.        | Maximum Percent Sulfur:   | 8. Maximum Percent Ash:                 |  |  |  |  |
| 9.        | Million Btu per SCC Unit:   |   |  |  |  |  |
| 10        | 10. Segment Comment (limit to 200 characters):                    |   |  |  |  |  |
|           |   |   |  |  |  |  |
|           |   |   |  |  |  |  |
|           | •   |   |  |  |  |  |
|           |   |   |  |  |  |  |

Emissions Unit Information Section \_\_\_1\_\_ of \_\_\_9\_\_

| <b>Emissions Unit Information Section</b> | 1 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

# G. EMISSIONS UNIT POLLUTANTS (Regulated and Unregulated Emissions Units)

| 1. Pollutant Emitted | 2. Primary Control | 3. Secondary Control | 4. Pollutant    |
|----------------------|--------------------|----------------------|-----------------|
|                      | Device Code        | Device Code          | Regulatory Code |
| SO <sub>2</sub>      |                    |                      | NS              |
| NO <sub>X</sub>      |                    |                      | EL              |
| СО                   |                    |                      | NS              |
| VOC                  |                    |                      | NS              |
| PM                   |                    |                      | NS              |
| H095                 |                    |                      | NS              |
| H017                 |                    |                      | NS              |
| H169                 |                    |                      | NS              |
| H186                 |                    | ,                    | NS              |
| H001                 |                    |                      | NS              |
| H151                 |                    |                      | NS              |
| Pb                   |                    |                      | NS              |
| <b>PM</b> 10         |                    |                      | NS              |
|                      |                    |                      |                 |
|                      |                    |                      |                 |
|                      |                    |                      |                 |
|                      |                    |                      |                 |
|                      |                    | -                    |                 |
|                      |                    |                      |                 |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 1 of 9 | Em | nissions | Unit | Information | on Section | 1 | of | 9 |  |
|---|----|----------|------|-------------|------------|---|----|---|--|
|---|----|----------|------|-------------|------------|---|----|---|--|

### H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

### Pollutant Detail Information: 1 of 6

| 1.   | Pollutant Emitted: SO2  |  |  |  |  |
|--|---|--|--|--|--|
| 2.   | Total Percent Efficiency of Control: %  |  |  |  |  |
| 3.   | Potential Emissions: 7.59 lb/hour 33.28 tons/year   |  |  |  |  |
| 4.   | Synthetically Limited? [ ] Yes [X ] No  |  |  |  |  |
| 5.   | Range of Estimated Fugitive/Other Emissions:  [ ] 1   |  |  |  |  |
| 6.   | Emission Factor: 7.2 x %S x 2 lbs SO2/Gal Oil Reference: Stoicheometric Calculation per Raisa Neginsky of DEP |  |  |  |  |
| 7.   | Emissions Method Code: [ ] 0  |  |  |  |  |
| 8.   | Calculation of Emissions (limit to 600 characters):   |  |  |  |  |
|  | 7.2 lbs Oil/gal Oil x 1,320,603 gal Oil/yr x 0.0035 S/lb Oil x 2 lb SO2/1lb S                                 |  |  |  |  |
|  | 2000 lbs/ton  |  |  |  |  |
|  |   |  |  |  |  |
|  |   |  |  |  |  |
|  |   |  |  |  |  |
|  |   |  |  |  |  |
| 9.   | Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):                                    |  |  |  |  |
| Potential Emission based on maximum heat input, 8760 hours/year, and the minimum heating value of oil reported from 1992-1995. |   |  |  |  |  |
|  |   |  |  |  |  |

| Emissions Unit Information Section1 of9 |   |                      |                     |  |  |  |
|---|---|----------------------|---------------------|--|--|--|
| <u>All</u>                              | Allowable Emissions (Pollutant identified on front of page)             |                      |                     |  |  |  |
| 1.                                      | Basis for Allowable Emissions Code:                                     |                      |                     |  |  |  |
| 2.                                      | Future Effective Date of Allowable Emissions:                           |                      |                     |  |  |  |
| 3.                                      | Requested Allowable Emissions and Units:                                |                      |                     |  |  |  |
| 4.                                      | Equivalent Allowable Emissions:   | lb/hour              | tons/year           |  |  |  |
| 5.                                      | Method of Compliance (limit to 60 characters):                          |                      |                     |  |  |  |
|   | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related Operating | Method/Mode) (limit |  |  |  |
|   |   |                      |                     |  |  |  |
|   |   |                      |                     |  |  |  |
|   |   |                      |                     |  |  |  |
| В.                                      |   | )                    | <u>.</u>            |  |  |  |
| 1.                                      | Basis for Allowable Emissions Code:                                     |                      |                     |  |  |  |
| 2.                                      | Future Effective Date of Allowable Emissions:                           |                      |                     |  |  |  |
| 3.                                      | Requested Allowable Emissions and Units:                                |                      |                     |  |  |  |
| 4.                                      | Equivalent Allowable Emissions:   | lb/hr                | tons/year           |  |  |  |
| 5.                                      | Method of Compliance (limit to 60 characters):                          |                      |                     |  |  |  |
| 6.                                      | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related Operating | g Method/Mode)      |  |  |  |
|   |   |                      |                     |  |  |  |
|   |   |                      |                     |  |  |  |

| Linissions only mation section 1 of 7 | Information Section 1 of 9 | 1 | Section | Informa | Unit | issions | En |
|---------------------------------------|----------------------------|---|---------|---------|------|---------|----|
|---------------------------------------|----------------------------|---|---------|---------|------|---------|----|

#### Pollutant Detail Information: 2 of 6

| 1. Pollutant Emitted: NOx  |
|--|
| 2. Total Percent Efficiency of Control: %  |
| 3. Potential Emissions: 99.8 lb/hour 436.91 tons/year  |
| 4. Synthetically Limited?  [ ] Yes [X] No  |
| 5. Range of Estimated Fugitive/Other Emissions:  [ ] 1   |
| 6. Emission Factor: 4.75 lb NOx / MMBTu  |
| Reference: NOx RACT RULE Will be met as demonstrated by stack test @ Tom G. Smith Power Plant (7/93) See attachment            |
| L, Stack Test Results  |
| 7. Emissions Method Code:  |
| []0 [X]1 []2 []3 []4 []5   |
| 8. Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Oil Firing                                 |
| 4.75 lb NOx/MMBTU x 1320.603 1000 gal Oil/yur x 139.3 MMBTU/1000 gal Oil   |
| 2000   |
|  |
|  |
|  |
|  |
|  |
|  |
| 9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  |
| Potential Emission based on maximum heat input, 8760 hours/year, and the minimum heating value of oil reported from 1992-1995. |
|  |

Emissions Unit Information Section \_\_\_1\_\_ of \_\_\_9\_\_ Allowable Emissions (Pollutant identified on front of page) 1. Basis for Allowable Emissions Code: RULE 2. Future Effective Date of Allowable Emissions: 3. Requested Allowable Emissions and Units: 4.75 lb NOx / MMBTU 4. Equivalent Allowable Emissions: 99.8 lb/hour 436.91 tons/year 5. Method of Compliance (limit to 60 characters): EPA Test Method 7E Conducted annually 6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 1. Basis for Allowable Emissions Code: 2. Future Effective Date of Allowable Emissions: 3. Requested Allowable Emissions and Units: 4. Equivalent Allowable Emissions: lb/hr tons/year 5. Method of Compliance (limit to 60 characters): 6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode)

Effective: 3-21-96

(limit to 200 characters):

| <b>Emissions</b> | Unit | Information | Section | 1 | of | 9 |  |
|------------------|------|-------------|---------|---|----|---|--|
|------------------|------|-------------|---------|---|----|---|--|

### Pollutant Detail Information: 3 of 6

| 1. | Pollutant Emitted: CO  |                             |  |  |  |  |  |
|----|--|-----------------------------|--|--|--|--|--|
| 2. | Total Percent Efficiency of Control:   | %                           |  |  |  |  |  |
| 3. | Potential Emissions: 17.0 lb/hour 74.50  | tons/year                   |  |  |  |  |  |
| 4. | Synthetically Limited? [ ] Yes [X] No  |                             |  |  |  |  |  |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1  | totons/year                 |  |  |  |  |  |
| 6. | Emission Factor: 0.81 lb CO / MMBtu Reference: EPA AP-42 Table 3.4-1 Gaseous Emission F Diesel and All Stationary Dual Engines | actors For Large Stationary |  |  |  |  |  |
| 7. | Emissions Method Code: [ ] 0   | ] 4 [ ] 5                   |  |  |  |  |  |
| 8. | Calculation of Emissions (limit to 600 characters): Potential E 0.81 lb CO/MMBTU Oil x 1320.60 1000 gal Oil/yr x 139.3         | <del>-</del>                |  |  |  |  |  |
|    | 2000 lbs/ton   |                             |  |  |  |  |  |
| 9. | Pollutant Potential/Estimated Emissions Comment (limit to 20   | 00 characters):             |  |  |  |  |  |
|    | otential Emission based on maximum heat input, 8760 hours/yea<br>lue of oil reported from 1992-1995                            | r, and the minimum heating  |  |  |  |  |  |

| En        | nissions Unit Information Section1 of _                                 | 9                    |                     |
|-----------|---|----------------------|---------------------|
| <u>Al</u> | lowable Emissions (Pollutant identified on front                        | of page)             |                     |
| Α.        |   |                      |                     |
| 1.        | Basis for Allowable Emissions Code:                                     |                      |                     |
| 2.        | Future Effective Date of Allowable Emissions:                           |                      |                     |
| 3.        | Requested Allowable Emissions and Units:                                |                      | _                   |
| 4.        | Equivalent Allowable Emissions:   | lb/hour              | tons/year           |
| 5.        | Method of Compliance (limit to 60 characters):                          |                      |                     |
|           | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related Operating | Method/Mode) (limit |
|           |   |                      |                     |
|           |   |                      |                     |
|           |   |                      |                     |
| В.        |   |                      |                     |
| 1.        | Basis for Allowable Emissions Code:                                     |                      |                     |
| 2.        | Future Effective Date of Allowable Emissions:                           |                      |                     |
| 3.        | Requested Allowable Emissions and Units:                                |                      |                     |
| 4.        | Equivalent Allowable Emissions:   | lb/hr                | tons/year           |
| 5.        | Method of Compliance (limit to 60 characters):                          |                      |                     |
| 6.        | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related Operating | Method/Mode)        |

|  | Emissions | Unit Information Secti | on 1 | of | 9 |  |
|--|-----------|------------------------|------|----|---|--|
|--|-----------|------------------------|------|----|---|--|

#### Pollutant Detail Information: 4 of 6

| 1. | Pollutant Emitted: VOC  |                     |
|----|---|---------------------|
| 2. | Total Percent Efficiency of Control:  | %                   |
| 3. | Potential Emissions: 0.6 lb/hour 2.67   | tons/year           |
| 4. | Synthetically Limited? [ ] Yes [X] No   |                     |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1   | tons/year           |
| 6. | Emission Factor: 0.029 lb VOC / MMBTU Oil Reference: Stack Test @ Tom G. Smith Power Plant (7/93) See Test Results                  | Attachment L, Stack |
| 7. | Emissions Method Code: [ ] 0 [X] 1 [ ] 2 [ ] 3 [ ] 4  | [ ] 5               |
| 8. | Calculation of Emissions (limit to 600 characters): Potential Emissions 0.029 lb VOC/MMBTU Oil x 1320.6 1000 gal Oil/yr x 139.3 MMB |                     |
|    | 2000 lbs/ton  |                     |
|    |   |                     |
| 9. | Pollutant Potential/Estimated Emissions Comment (limit to 200 charac  | ters):              |
| ı  | tential Emission based on maximum heat input, 8760 hours/year, and the lue of oil reported from 1992-1995.                          | e minimum heating   |

| Emissions Unit Information Section1 of                                    | 9                      |                       |
|---|------------------------|-----------------------|
| Allowable Emissions (Pollutant identified on front                        | of page)               |                       |
| Α.  |                        |                       |
| Basis for Allowable Emissions Code:                                       |                        |                       |
| 2. Future Effective Date of Allowable Emissions:                          |                        |                       |
| 3. Requested Allowable Emissions and Units:                               |                        |                       |
| 4. Equivalent Allowable Emissions:  | lb/hour                | tons/year             |
| 5. Method of Compliance (limit to 60 characters):                         |                        |                       |
| 6. Pollutant Allowable Emissions Comment (Desc to 200 characters):        | . of Related Operating | g Method/Mode) (limit |
|   |                        |                       |
|   |                        |                       |
|   |                        |                       |
|   |                        |                       |
| В.  |                        |                       |
| Basis for Allowable Emissions Code:                                       |                        | -                     |
| 2. Future Effective Date of Allowable Emissions:                          |                        |                       |
| 3. Requested Allowable Emissions and Units:                               | ,                      |                       |
| 4. Equivalent Allowable Emissions:  | lb/hr                  | tons/year             |
| 5. Method of Compliance (limit to 60 characters):                         |                        |                       |
| 6. Pollutant Allowable Emissions Comment (Desc (limit to 200 characters): | . of Related Operatin  | g Method/Mode)        |

| Emissions Unit Information Section 1 of 9 | Section 1 of 9 |
|---|----------------|
|---|----------------|

#### Pollutant Detail Information: 5 of 6

| 1. | Pollutant Emitted: PM   |           |  |  |  |  |  |
|----|---|-----------|--|--|--|--|--|
| 2. | Total Percent Efficiency of Control:  | %         |  |  |  |  |  |
| 3. | Potential Emissions: 5.5 lb/hour 12   | tons/year |  |  |  |  |  |
| 4. | Synthetically Limited? [ ] Yes [X] No   |           |  |  |  |  |  |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1   | tons/year |  |  |  |  |  |
| 6. | Emission Factor: 33.5 lb PM / 1000 gal Oil<br>Reference: EPA FIRE   |           |  |  |  |  |  |
| 7. | Emissions Method Code: [ ] 0  | [ ] 5     |  |  |  |  |  |
| 8. | 8. Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Oil Firing  33.5 lbs PM/1000 gal Oil x 1320.6 1000 gal/yr  2000 lbs/ton   |           |  |  |  |  |  |
| Po | 9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  Potential Emission based on maximum heat input, 8760 hours/year, and the minimum heating value of oil reported from 1992-1995. |           |  |  |  |  |  |
|    |   |           |  |  |  |  |  |

DEP Form No. 62-210.900(1) - Form

| _           |
|-------------|
|             |
|             |
| ode) (limit |
|             |
|             |
|             |
|             |
|             |
|             |
|             |
|             |
|             |
|             |
| ode)        |
|             |

| Emissions Unit Information Section | 1 | of | 9 |
|------------------------------------|---|----|---|
|------------------------------------|---|----|---|

### Pollutant Detail Information: 6 of 6

| 1. | Pollutant Emitted: PM10   |  |  |  |  |
|----|---|--|--|--|--|
| 2. | Total Percent Efficiency of Control: %  |  |  |  |  |
| 3. | Potential Emissions: 4.8 lb/hour 13 tons/year   |  |  |  |  |
| 4. | Synthetically Limited? [ ] Yes [X] No   |  |  |  |  |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1   |  |  |  |  |
| 6. | Emission Factor: 32 lb PM10 / 1000 gal Oil<br>Reference: EPA FIRE   |  |  |  |  |
| 7. | Emissions Method Code: [ ] 0  |  |  |  |  |
| 8. | Calculation of Emissions (limit to 600 characters). Potential Emissions Bases on Oil Firing 32 lbs PM10/1000 gal Oil x 1320.6 1000 gal Oil/yr |  |  |  |  |
|    | 2000 lbs/ton  |  |  |  |  |
|    |   |  |  |  |  |
|    |   |  |  |  |  |
|    |   |  |  |  |  |
| 9. | Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  |  |  |  |  |
|    | Potential Emission based on maximum heat input, 8760 hours/year, and the minimum heating value of oil reported from 1992-1995.                |  |  |  |  |
|    |   |  |  |  |  |

| Emissions Unit Information Section1 of9                                      |               |                              |  |  |  |  |
|--|---------------|------------------------------|--|--|--|--|
| Allowable Emissions (Pollutant identified on front of page)  A.              |               |                              |  |  |  |  |
| Basis for Allowable Emissions Code:  |               |                              |  |  |  |  |
| 2. Future Effective Date of Allowable Emissions:                             |               | *3                           |  |  |  |  |
| 3. Requested Allowable Emissions and Units:                                  |               |                              |  |  |  |  |
| 4. Equivalent Allowable Emissions:   | lb/hour       | tons/year                    |  |  |  |  |
| 5. Method of Compliance (limit to 60 characters):                            |               |                              |  |  |  |  |
| 6. Pollutant Allowable Emissions Comment (Desc<br>to 200 characters):        | of Related Op | perating Method/Mode) (limit |  |  |  |  |
|  |               |                              |  |  |  |  |
|  |               |                              |  |  |  |  |
|  |               |                              |  |  |  |  |
| В.   |               |                              |  |  |  |  |
| 1. Basis for Allowable Emissions Code:                                       |               | 444                          |  |  |  |  |
| 2. Future Effective Date of Allowable Emissions:                             |               |                              |  |  |  |  |
| 3. Requested Allowable Emissions and Units:                                  |               |                              |  |  |  |  |
| 4. Equivalent Allowable Emissions:   | lb/hr         | tons/year                    |  |  |  |  |
| 5. Method of Compliance (limit to 60 characters):                            |               |                              |  |  |  |  |
| 6. Pollutant Allowable Emissions Comment (Desc<br>(limit to 200 characters): | of Related O  | perating Method/Mode)        |  |  |  |  |
|  | •             |                              |  |  |  |  |
|  |               |                              |  |  |  |  |

| <b>Emissions</b> | Unit | Information Sectio | n | 1 | of | 9 |
|------------------|------|--------------------|---|---|----|---|
|                  |      |                    |   | _ |    | - |

### I. VISIBLE EMISSIONS INFORMATION (Regulated Emissions Units Only)

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation 1 of 1 1. Visible Emissions Subtype: VE 2. Basis for Allowable Opacity: [X] Rule [ Other 3. Requested Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour 4. Method of Compliance: Compliance Test Method 9 conducted annually. Testing conducted using the fuel and/or process input which are expected to result in the highest emissions and within ten (10%) of the rated capacity of the source. 5. Visible Emissions Comment (limit to 200 characters): Visible Emissions Limitation: Visible Emissions Limitation of 1. Visible Emissions Subtype: 2. Basis for Allowable Opacity: ] Other [ ] Rule 3. Requested Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour 4. Method of Compliance: 5. Visible Emissions Comment (limit to 200 characters):

| Emissions Unit | Information Section | 1 | of | 9 |  |
|----------------|---------------------|---|----|---|--|
|                |                     |   |    |   |  |

### J. CONTINUOUS MONITOR INFORMATION (Regulated Emissions Units Only)

Continuous Monitoring System: Continuous Monitor \_\_\_\_\_ of \_\_\_\_ 1. Parameter Code: 2. Pollutant(s): 3. CMS Requirement: [ ] Rule ] Other 4. Monitor Information: Manufacturer: Model Number: Serial Number: 5. Installation Date: 6. Performance Specification Test Date: 7. Continuous Monitor Comment (limit to 200 characters): Continuous Monitoring System: Continuous Monitor of 1. Parameter Code: 2. Pollutant(s): 3. CMS Requirement: ] Rule 1 Other 4. Monitor Information: Manufacturer: Model Number: Serial Number: 5. Installation Date: 6. Performance Specification Test Date: 7. Continuous Monitor Comment (limit to 200 characters):

| Emissions Unit Information Section | 1 | of | 9 |
|------------------------------------|---|----|---|
|------------------------------------|---|----|---|

### K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

(Regulated and Unregulated Emissions Units)

#### **PSD Increment Consumption Determination**

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

- The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- [X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

| En | nissions Unit Information Section1 of9  |
|----|---|
| 2. | Increment Consuming for Nitrogen Dioxide?   |
|    | If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.   |
|    | [ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.  |
|    | [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment. |
|    | [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.   |
|    | [ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.   |
|    | [X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.   |
| 3. | Increment Consuming/Expanding Code:   |
|    | PM [ ] C [ ] E [ ] Unknown  |
|    | SO2 [ ] C [ ] E [ ] Unknown   |
| 4  | NO2 [ ] C [ ] E [ ] Unknown  Baseline Emissions:  |
| 4. | Baseline Emissions:   |

| Increment Consu  | iming/Expanding  | ; Code:   |  |   |
|------------------|--|---|--|---|
| PM               | [ ] C  | [ ]E  | [ ] Unknown  |   |
| SO2              | [ ] C  | [ ]E  | [ ] Unknown  |   |
| NO2              | [ ] C  | [ ]E  | [ ] Unknown  |   |
| Baseline Emissio | ons:   |   |  |   |
| PM               |  | lb/hour   | tons/year  |   |
| SO2              |  | lb/hour   | tons/year  |   |
| NO2              |  |   | tons/year  |   |
| PSD Comment (    | limit to 200 char  | acters): Commissi   | on year is 1965  |   |
|                  |  | •   |  |   |
|                  |  |   |  |   |
|                  |  |   |  |   |
|                  |  |   |  |   |
|                  |  |   |  |   |
|                  | PM<br>SO2<br>NO2<br>Baseline Emissio<br>PM<br>SO2<br>NO2 | PM [ ] C SO2 [ ] C NO2 [ ] C Baseline Emissions: PM SO2 NO2 | SO2 [ ] C [ ] E NO2 [ ] C [ ] E  Baseline Emissions:  PM   lb/hour SO2   lb/hour NO2 | PM         [ ] C         [ ] E         [ ] Unknown           SO2         [ ] C         [ ] E         [ ] Unknown           NO2         [ ] C         [ ] E         [ ] Unknown           Baseline Emissions:         PM         lb/hour         tons/year           SO2         lb/hour         tons/year |

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| <b>Emissions Unit Information Section</b> | 1 | of | 9. |  |
|---|---|----|----|--|
|---|---|----|----|--|

## L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

#### Supplemental Requirements for All Applications

| 1. | Process Flow Diagram  |
|----|---|
|    | [x ] Attached, Document ID:_Att C [ ] Not Applicable [ ] Waiver Requested   |
| 2. | Fuel Analysis or Specification  |
|    | [x ] Attached, Document ID:_Att. D_ [ ] Not Applicable [ ] Waiver Requested |
| 3. | Detailed Description of Control Equipment                                   |
|    | [ ] Attached, Document ID: [x ] Not Applicable [ ] Waiver Requested         |
| 4. | Description of Stack Sampling Facilities                                    |
|    | [x ] Attached, Document ID: Att. E [ ] Not Applicable [ ] Waiver Requested  |
| 5. | Compliance Test Report  |
|    | [ ] Attached, Document ID:  |
|    |   |
|    | Previously submitted, Date:   |
|    | [x ] Not Applicable   |
| 6. | Procedures for Startup and Shutdown   |
|    | [ ] Attached, Document ID: [x ] Not Applicable                              |
| 7. | Operation and Maintenance Plan  |
|    | Attached, Document ID: [x] Not Applicable                                   |
|    |   |
| 8. | Supplemental Information for Construction Permit Application                |
|    | [ ] Attached, Document ID: [x ] Not Applicable                              |
| 9. | Other Information Required by Rule or Statute                               |
|    | [ ] Attached, Document ID: [x ] Not Applicable                              |
| ı  |   |

| Emissions Unit Information Section 1 of 9 | Section 1 of 9 |
|---|----------------|
|---|----------------|

### Additional Supplemental Requirements for Category I Applications Only

| 10. Alternative Methods of Operation                        |
|---|
| [ ] Attached, Document ID: [x ] Not Applicable              |
| 11. Alternative Modes of Operation (Emissions Trading)      |
| [ ] Attached, Document ID: [x ] Not Applicable              |
|   |
| 12. Identification of Additional Applicable Requirements    |
| [ ] Attached, Document ID: [x ] Not Applicable              |
| 13. Compliance Assurance Monitoring Plan                    |
| [ ] Attached, Document ID: [x ] Not Applicable              |
| 14. Acid Rain Application (Hard-copy Required)              |
|   |
| [ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))   |
| Attached, Document ID:                                      |
| [ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) |
| Attached, Document ID:                                      |
|   |
| [ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)        |
| Attached, Document ID:                                      |
| [ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)    |
| Attached, Document ID:                                      |
| for 1 Net Applicable  |
| [x ] Not Applicable   |
|   |

| Emissions Unit Information Section 2 of 9 |  |
|---|--|
|---|--|

#### III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

| A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)   |
|---|
| Type of Emissions Unit Addressed in This Section  |
| 1. Regulated or Unregulated Emissions Unit? Check one:  |
| [X ] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.   |
| [ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.   |
| 2. Single Process, Group of Processes, or Fugitive Only? Check one:   |
| [X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). |
| [ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.   |
| [ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.  |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 2 | of | 9 |  |
|--------------------------------------|----|---|--|
|--------------------------------------|----|---|--|

# B. GENERAL EMISSIONS UNIT INFORMATION (Regulated and Unregulated Emissions Units)

### **Emissions Unit Description and Status**

| r <del>-</del>                     |                                     |                         |
|------------------------------------|-------------------------------------|-------------------------|
|                                    | Init Addressed in This Section (lin | nit to 60 characters):  |
| Fossil Fuel Steam Generatin        | g Unit 1 (S-1)                      |                         |
|                                    |                                     |                         |
|                                    |                                     |                         |
| 2. Emissions Unit Identification   | on Number:[ ]No Corresponding       | g ID [ ] Unknown        |
| 007                                |                                     |                         |
| 3. Emissions Unit Status           | 4. Acid Rain Unit?                  | 5. Emissions Unit Major |
| Code: A                            | [ ] Yes [x ] No                     | Group SIC Code: 49      |
|                                    |                                     |                         |
| 6. Emissions Unit Comment (        | limit to 500 characters):           |                         |
|                                    | •                                   |                         |
|                                    |                                     |                         |
|                                    |                                     |                         |
|                                    |                                     |                         |
|                                    |                                     |                         |
|                                    |                                     |                         |
|                                    |                                     |                         |
|                                    |                                     |                         |
|                                    |                                     |                         |
| <b>Emissions Unit Control Equi</b> | <u>pment</u>                        |                         |
|                                    |                                     |                         |
| A.                                 |                                     |                         |
| 1. Description (limit to 200 cl    | naracters):                         |                         |
|                                    |                                     |                         |
| ·                                  |                                     |                         |
|                                    |                                     |                         |
|                                    |                                     |                         |
|                                    |                                     |                         |
|                                    |                                     |                         |
|                                    |                                     |                         |
|                                    |                                     |                         |
| 2. Control Device or Method        | Code:                               |                         |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section2 of9   |  |
|---|--|
|   |  |
| <b>B</b> .                                |  |
| Description (limit to 200 characters):    |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
| 2. Control Device or Method Code:         |  |
| · · · · · · · · · · · · · · · · · · ·     |  |
|   |  |
| C.  |  |
| 1. Description (limit to 200 characters): |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
| 2. Control Device or Method Code:         |  |

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| <b>Emissions</b> | Unit | Informatio | n Section | 2 | of | 9 |  |
|------------------|------|------------|-----------|---|----|---|--|
|                  |      |            |           |   |    |   |  |

# C. EMISSIONS UNIT DETAIL INFORMATION (Regulated Emissions Units Only)

#### **Emissions Unit Details**

| 1. | Initial Startup Date: 1961                            | <del></del> |
|----|---|-------------|
| 2. | Long-term Reserve Shutdown Date:                      |             |
| 3. | Package Unit:   |             |
|    | Manufacturer:   |             |
|    | Model Number:   |             |
| 4. | Generator Nameplate Rating: 7.5 MW                    |             |
| 5. | Incinerator Information:                              |             |
|    | Dwell Temperature:                                    | °F          |
|    | Dwell Time:   | seconds     |
|    | Incinerator Afterburner Temperature:                  | °F          |
|    | nissions Unit Operating Capacity                      |             |
| 1. | Maximum Heat Input Rate: 111                          | mmBtu/hr    |
| 2. | Maximum Incineration Rate: lb/hr                      | tons/day    |
| 3. | Maximum Process or Throughput Rate:                   |             |
| 4. | Maximum Production Rate:                              |             |
| 5. | Operating Capacity Comment (limit to 200 characters): |             |
|    |   |             |
|    |   |             |
|    |   |             |
|    |   |             |
|    |   |             |
|    |   |             |
|    |   |             |
|    |   |             |

#### **Emissions Unit Operating Schedule**

| Requested Maximum Ope | rating Schedule: |           |            |  |
|-----------------------|------------------|-----------|------------|--|
|                       | hours/day        |           | days/week  |  |
|                       | •                |           | •          |  |
|                       | weeks/year       | 8760 Each | hours/year |  |

DEP Form No. 62-210.900(1) - Form

| Emissions | Unit | Information | Section | 2 | of | 9 |  |
|-----------|------|-------------|---------|---|----|---|--|
|           |      |             |         |   |    |   |  |

# D. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

| Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.) |  |  |   |  |  |
|--|--|--|---|--|--|
|  |  |  | _ |  |  |
|  |  |  |   |  |  |
|  |  |  |   |  |  |
|  |  |  |   |  |  |
|  |  |  |   |  |  |
|  |  |  |   |  |  |
|  |  |  |   |  |  |
|  |  |  |   |  |  |
|  |  |  |   |  |  |
|  |  |  | • |  |  |
|  |  |  |   |  |  |
|  |  |  |   |  |  |
|  |  |  | · |  |  |
|  |  |  |   |  |  |
|  |  |  |   |  |  |
|  |  |  |   |  |  |
|  |  |  |   |  |  |
|  |  |  |   |  |  |
|  |  |  |   |  |  |
|  |  |  |   |  |  |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 2 of | Emis | of 9 |  |
|---|------|------|--|
|---|------|------|--|

<u>List of Applicable Regulations</u> (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

| Federal: None               |  |
|-----------------------------|--|
| State: 62-4, F.A.C.         | Permitting Requirements  |
| 62-210, F.A.C.              | Stationary Sources - General Requirements  |
| 62-213, F.A.C.              | Title V Permitting Requirements  |
| 62-275.410, F.A.C.          | Air Quality Areas - Ozone Nonattainment  |
| 62-296.406(1), F.A.C.       | Stationary Sources - Visible Emissions Standards (Steam Generating Unit with Max Heat Input < 250 MMBTU/hr |
| 62-296.570 (4)(b)(9)        | NOx RACT Emission Limitations  |
| 62-297.410(9), F.A.C.       | Stationary Sources - EPA Method 9 for<br>Visible Emissions Testing   |
| Title V Core List (3/25/96) | Presumptively Applicable (Federal & State)   |
| Local: None                 |  |
|                             |  |
|                             |  |
| -                           |  |
|                             |  |
|                             |  |
|                             |  |
|                             |  |
|                             |  |
|                             |  |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 2 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

# E. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

#### **Emission Point Description and Type**

|    | Identification of Point on Plot Plan or 1 Fossil Fuel Steam Generating Unit #1 | Flo  | w Ì   | Diagram:      |   |              |                      |
|----|--|------|-------|---------------|---|--------------|----------------------|
|    |  |      |       |               |   |              |                      |
| 2. | Emission Point Type Code:  |      |       |               |   |              |                      |
|    | [X] 1 [] 2   |      | ] 3   | 3             | [                                       | ] 4          |                      |
| 3  | Descriptions of Emissions Points Com   | nris | ine   | a this Emiss  | ions                                    | Init for V   | F Tracking (limit to |
| ٥. |  | pris | ,1112 | g tins Linis  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | o o introl   | L Tracking (infacto  |
|    | 100 characters per point):   |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  | ì    |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
| 4. | ID Numbers or Descriptions of Emissi   | on   | Un    | its with this | s En                                    | nission Poin | t in Common:         |
|    | ·  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |
| 5  | Discharge Type Code:   |      |       |               |   |              |                      |
| ٠. |  | -    |       |               | -                                       | 1 D          |                      |
|    | [ ] D [ ] F [  | L    | J I   | H             | L                                       | ] P          |                      |
|    | [ ] R [X ] V [   |      | 7     | W             |   |              |                      |
|    |  | -    | -     |               |   |              |                      |
| _  | Q. 1.T. 1. CO  |      |       |               |   |              | <u> </u>             |
| 6. | Stack Height: 60   |      |       |               |   |              | feet                 |
|    |  |      |       |               |   |              |                      |
| 7  | Exit Diameter: 5   |      |       |               |   |              | feet                 |
| /. | EXIL DIAMETER. 3   |      |       |               |   |              | reet                 |
|    |  |      |       |               |   |              |                      |
| 8  | Exit Temperature: 311(gas); 300 (oil)  |      |       |               |   |              | °F                   |
| J. | (011)  |      |       |               |   |              | -                    |
|    |  |      |       |               |   |              |                      |
|    |  |      |       |               |   |              |                      |

DEP Form No. 62-210.900(1) - Form

### Emissions Unit Information Section \_\_\_2\_\_ of \_\_\_9\_\_

| z. Motual volumen                   | ic Flow Rate: 40659 (gas); 4018 (of | il) acfm           |
|-------------------------------------|-------------------------------------|--------------------|
| 10. Percent Water V                 | apor :                              | %                  |
| 11. Maximum Dry S                   | tandard Flow Rate:                  | dscfm              |
| 12. Nonstack Emission Point Height: |                                     | feet               |
| 13. Emission Point U                | JTM Coordinates:                    |                    |
| Zone: 17                            | East (km): 592.8                    | North (km): 2943.7 |
|                                     |                                     |                    |
|                                     |                                     |                    |
|                                     |                                     |                    |

| <b>Emissions Unit</b> | Information S | Section | 2 | of | 9 |
|-----------------------|---------------|---------|---|----|---|
|                       |               |         |   |    |   |

## F. SEGMENT (PROCESS/FUEL) INFORMATION (Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment \_1\_ of \_2\_

| <ol> <li>Segment Description (Process/Fuel Type and (limit to 500 characters):</li> </ol> | d Associated Operating Method/Mode) |
|---|-------------------------------------|
| Natural Gas Used in Boiler  |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
| 2. Source Classification Code (SCC): 10100601   |                                     |
| 3. SCC Units:   |                                     |
| MMCF  |                                     |
| 4. Maximum Hourly Rate: 0.11  | 5. Maximum Annual Rate: 946.8       |
| 6. Estimated Annual Activity Factor:  |                                     |
| 7. Maximum Percent Sulfur: 0  | 8. Maximum Percent Ash:             |
| 9. Million Btu per SCC Unit: 1027   |                                     |
| 10. Segment Comment (limit to 200 characters)   | <u> </u>                            |
|   | •                                   |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   | ·                                   |

DEP Form No. 62-210.900(1) - Form

| Emissions | Unit | Information | Section | 2 | of | 9 |
|-----------|------|-------------|---------|---|----|---|
|           |      |             |         |   |    |   |

### Segment Description and Rate: Segment \_2\_ of \_2\_

| <ol> <li>Segment Description (Process/Fuel Type an<br/>(limit to 500 characters):</li> </ol> | d Associated Operating Method/Mode) |
|--|-------------------------------------|
| Number 5 Fuel Oil Used in Boiler   |                                     |
|  |                                     |
|  |                                     |
|  |                                     |
|  |                                     |
|  |                                     |
|  |                                     |
|  |                                     |
|  |                                     |
|  |                                     |
|  |                                     |
| 2. Source Classification Code (SCC): 1010040   | 5                                   |
| 2. Source classification code (500). 1010010   |                                     |
| 3. SCC Units: 1000 gallons burned  |                                     |
|  |                                     |
| 4. Maximum Hourly Rate: 0.76   | 5. Maximum Annual Rate: 6623.71     |
| 6. Estimated Annual Activity Factor:   |                                     |
| 7. Maximum Percent Sulfur: 2.25  | 8. Maximum Percent Ash: 0.067       |
| /. Maximum i ercent Sundi. 2.25  | 8. Maximum Fercent Ash. 0.007       |
| 9. Million Btu per SCC Unit: 146.80  |                                     |
|  |                                     |
| 10. Segment Comment (limit to 200 characters)  | :                                   |
|  |                                     |
|  |                                     |
|  |                                     |
|  |                                     |
|  |                                     |
|  |                                     |
|  |                                     |
|  |                                     |

DEP Form No. 62-210.900(1) - Form

## G. EMISSIONS UNIT POLLUTANTS (Regulated and Unregulated Emissions Units)

| 1. Pollutant Emitted | 2. Primary Control | 3. Secondary Control | 4. Pollutant    |
|----------------------|--------------------|----------------------|-----------------|
|                      | Device Code        | Device Code          | Regulatory Code |
| SO <sub>2</sub>      |                    |                      | NS              |
| NO <sub>X</sub>      |                    |                      | EL              |
| PM                   |                    |                      | NS              |
| СО                   |                    |                      | NS              |
| VOC                  |                    |                      | NS              |
| PM10                 |                    |                      | NS              |
| H095                 |                    |                      | NS              |
| H104                 |                    |                      | NS              |
| H014                 |                    |                      | NS              |
| H015                 |                    |                      | NS              |
| H027                 |                    |                      | NS              |
| H046                 |                    |                      | NS              |
| H047                 |                    |                      | NS              |
| H113                 |                    |                      | NS              |
| H133                 |                    |                      | NS              |
| H162                 |                    |                      | NS              |
| Pb                   |                    |                      | NS              |
|                      |                    |                      |                 |
|                      |                    |                      |                 |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 2 of | y |  |
|---|---|--|
|---|---|--|

### Pollutant Detail Information: 1 of 6

| 1. | . Pollutant Emitted: SO2   |                 |
|----|--|-----------------|
| 2. | Total Percent Efficiency of Control:   |                 |
| 3. | Potential Emissions:267 lb/hour 1169.91 to   | ns/year         |
| 4. | Synthetically Limited? [ ] Yes [X ] No   |                 |
|    |  | tons/year       |
| 6. | <ol> <li>Emission Factor: 157 *%S lb SO2/1000 gal Oil<br/>Reference: EPA AP-42 Table 1.3-2 Criteria Pollutant Emission Fac<br/>Uncontrolled Fuel Oil Combustion</li> </ol> | otrs For        |
| 7. | Z. Emissions Method Code:         [ ] 0       [ ] 1       [ ] 2       [ X] 3       [ ] 4   | [ ] 5           |
| 8. | Calculation of Emissions (limit to 600 characters):  157 lbs SO2/1000 gal Oil x 2.25%S x 6623.71 1000 galOil/y   | Vr              |
|    | 2000 lbs/ton   |                 |
|    |  |                 |
|    |  |                 |
| 9. | Pollutant Potential/Estimated Emissions Comment (limit to 200 characters)  | s):             |
| l  | Potential Emissions based on maximum heat input, 8760 hours/year, and the ralue of oil reported from 1992-1995.  | minimum heating |
| 1  |  |                 |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 2 | ot | 9 |
|--------------------------------------|----|---|
|--------------------------------------|----|---|

### Allowable Emissions (Pollutant identified on front of page)

| 1.   | Basis for Allowable Emissions Code:   |                      |                     |
|--|---|----------------------|---------------------|
| 2.   | Future Effective Date of Allowable Emissions:   |                      |                     |
| 3.   | Requested Allowable Emissions and Units:  |                      |                     |
| 4.   | Equivalent Allowable Emissions:   | lb/hour              | tons/year           |
| 5.   | Method of Compliance (limit to 60 characters):  |                      |                     |
|  | Pollutant Allowable Emissions Comment (Desc. 200 characters):                           | of Related Operating | Method/Mode) (limit |
| В.   |   |                      |                     |
|  | Basis for Allowable Emissions Code:   |                      | <del>.</del>        |
| 1.   | Basis for Allowable Emissions Code.   |                      |                     |
|  | Future Effective Date of Allowable Emissions:   |                      |                     |
| 2.   |   |                      |                     |
| 2.   | Future Effective Date of Allowable Emissions:   | lb/hr                | tons/year           |
| <ol> <li>2.</li> <li>3.</li> <li>4.</li> </ol> | Future Effective Date of Allowable Emissions:  Requested Allowable Emissions and Units: | lb/hr                | tons/year           |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 2 | of ' | 9 |
|--------------------------------------|------|---|
|--------------------------------------|------|---|

### Pollutant Detail Information: 2 of 6

| 1. | Pollutant Emitted: NOx   |  |  |  |  |  |
|----|--|--|--|--|--|--|
| 2. | Total Percent Efficiency of Control: %   |  |  |  |  |  |
| 3. | Potential Emissions: 56 lb/hour 243.09 tons/year   |  |  |  |  |  |
| 4. | Synthetically Limited? [ ] Yes [X] No  |  |  |  |  |  |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1  |  |  |  |  |  |
| 6. | Emission Factor: 0.5 lb NOx / MMBTu  Reference: NOx RACT RULE  |  |  |  |  |  |
|    | Il be met as demonstrated by stack test @ Tom G. Smith Power Plant (7/93) See attachment Stack Test Results  |  |  |  |  |  |
| 7. | Emissions Method Code: [ ] 0 [X] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5   |  |  |  |  |  |
| 8. | Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Oil Firing 0.5 lbs NOx/MMBTU x 6623.71 1000 gal Oil x 146.8 MBTU/1000 gal Oil  2000 lbs/ton |  |  |  |  |  |
|    | 2000 103/1011  |  |  |  |  |  |
|    |  |  |  |  |  |  |
|    |  |  |  |  |  |  |
|    |  |  |  |  |  |  |
|    |  |  |  |  |  |  |
|    |  |  |  |  |  |  |
| 9. | Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):   |  |  |  |  |  |
|    | Potential Emissions based on maximum heat input, 8760 hours/year, and the minimum heating value of oil reported from 1992-1995.  |  |  |  |  |  |
|    |  |  |  |  |  |  |

DEP Form No. 62-210.900(1) - Form

|         | <u>Al</u> | lowable Emissions (Pollutant identified on front                        | of page)  |              |                     |
|---------|-----------|---|-----------|--------------|---------------------|
| _       | Α.        |   |           |              |                     |
|         | l.        | Basis for Allowable Emissions Code: RULE                                |           |              |                     |
| -       | 2.        | Future Effective Date of Allowable Emissions:                           |           | <u> </u>     |                     |
|         | 3.        | Requested Allowable Emissions and Units: 0.5 l                          | b NOx / I | MMBTU        |                     |
|         | 4.        | Equivalent Allowable Emissions: 56                                      | lb/hour   | 243.09       | tons/year           |
| -       | 5.        | Method of Compliance (limit to 60 characters):                          | EPA Tes   | st Method 7E | Conducted annually  |
|         |           | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Relate | ed Operating | Method/Mode) (limit |
|         |           |   |           |              |                     |
|         |           |   |           |              |                     |
|         |           |   |           |              |                     |
| <u></u> | В.        |   |           |              |                     |
|         | 1.        | Basis for Allowable Emissions Code:                                     |           |              |                     |
|         | 2.        | Future Effective Date of Allowable Emissions:                           | -         |              |                     |
| _       | 3.        | Requested Allowable Emissions and Units:                                |           |              |                     |
|         | 4.        | Equivalent Allowable Emissions:   | lb/hr     |              | tons/year           |
|         | 5.        | Method of Compliance (limit to 60 characters):                          |           |              |                     |
|         | 6.        | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Relate | ed Operating | Method/Mode)        |

Emissions Unit Information Section \_\_\_2\_\_ of \_\_\_9\_\_\_

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 2 of 9 | Emi | issions | Unit | Informa | tion | Section | 2 | of | 9 |
|---|-----|---------|------|---------|------|---------|---|----|---|
|---|-----|---------|------|---------|------|---------|---|----|---|

### Pollutant Detail Information: 3 of 6

| 1. | Pollutant Emitted: PM   |                              |            |
|----|---|------------------------------|------------|
| 2. | Total Percent Efficiency of Control:  |                              | %          |
| 3. | Potential Emissions: 18   | lb/hour 79                   | tons/year  |
| 4. | Synthetically Limited? [ ] Yes [X] No   |                              |            |
| 5. | Range of Estimated Fugitive/Other Emiss  [ ] 1 [ ] 2 [  |                              | tons/year  |
| 6. | Emission Factor: (9.19 x %S + 3.22 lb Pi<br>Reference: EPA AP-42 Table 1.3-2  | _ ·                          |            |
| 7. | Emissions Method Code: [ ] 0 [ ] 1 [ ] 2  | [X] 3 [ ] 4                  | [ ] 5      |
|    |   | 1000 gal Oil} x 6623.71 1000 | gal Oil/yr |
| Po | Pollutant Potential/Estimated Emissions of tential Emissions based on maximum heat ue of oil reported from 1992-1995. | ·                            |            |

DEP Form No. 62-210.900(1) - Form

| Al | lowable Emissions (Pollutant identified on front                        | of page)     |                        |        |
|----|---|--------------|------------------------|--------|
| Α. |   |              |                        |        |
| 1. | Basis for Allowable Emissions Code:                                     |              | -                      |        |
| 2. | Future Effective Date of Allowable Emissions:                           |              |                        |        |
| 3. | Requested Allowable Emissions and Units:                                |              |                        |        |
| 4. | Equivalent Allowable Emissions:   | lb/hour      | tons/year              |        |
| 5. | Method of Compliance (limit to 60 characters):                          |              |                        | _      |
| 1  | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related   | Operating Method/Mode) | (limit |
|    |   |              |                        |        |
|    |   |              |                        |        |
| В. |   |              |                        |        |
| 1. | Basis for Allowable Emissions Code:                                     |              |                        |        |
| 2. | Future Effective Date of Allowable Emissions:                           |              |                        |        |
| 3. | Requested Allowable Emissions and Units:                                |              |                        |        |
| 4. | Equivalent Allowable Emissions:   | lb/hr        | tons/year              |        |
| 5. | Method of Compliance (limit to 60 characters):                          | <del>.</del> |                        |        |
| 6. | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related   | Operating Method/Mode) |        |
|    |   |              |                        |        |
|    |   |              |                        |        |
|    |   |              |                        |        |

Emissions Unit Information Section \_\_\_2\_\_ of \_\_\_9\_\_

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

62

| Emissions Unit Information Section | 2 | of | 9 |  |
|------------------------------------|---|----|---|--|
|------------------------------------|---|----|---|--|

### Pollutant Detail Information: 4 of 6

| 1. | Pollutant Emitted: CO  |
|----|--|
| 2. | Total Percent Efficiency of Control: %   |
| 3. | Potential Emissions: 4 lb/hour 19 tons/year  |
| 4. | Synthetically Limited? [ ] Yes [X] No  |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1  |
| 6. | Emission Factor: 40 lbs CO / MMCF gas<br>Reference: EPA AP-42 Table 1.4-2  |
| 7. | Emissions Method Code: [ ] 0   |
| 8. | Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Gas Firing 40 lbs CO/MMCF gas x 946.8 MMCF gas/yr   |
| Po | Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): ential Emissions based on maximum firing rate, 8760 hours/yr and minimum heating value of from 1992-1995. |

DEP Form No. 62-210.900(1) - Form

| Emissions | Unit I | nformation | Section | 2 | of | 9 |
|-----------|--------|------------|---------|---|----|---|
|           |        |            |         |   |    |   |

#### Allowable Emissions (Pollutant identified on front of page)

| <u>A.</u> |   | _          |                        |        |
|-----------|---|------------|------------------------|--------|
| 1.        | Basis for Allowable Emissions Code:                           |            | -                      |        |
| 2.        | Future Effective Date of Allowable Emissions:                 |            |                        |        |
| 3.        | Requested Allowable Emissions and Units:                      |            |                        |        |
| 4.        | Equivalent Allowable Emissions:                               | lb/hour    | tons/year              |        |
| 5.        | Method of Compliance (limit to 60 characters):                | ·          |                        |        |
| ı         | Pollutant Allowable Emissions Comment (Desc. 200 characters): | of Related | Operating Method/Mode) | (limit |
| В.        |   |            |                        |        |
| 1.        | Basis for Allowable Emissions Code:                           |            |                        |        |
| 2.        | Future Effective Date of Allowable Emissions:                 |            |                        |        |
| 3.        | Requested Allowable Emissions and Units:                      |            |                        |        |

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):

lb/hr

tons/year

DEP Form No. 62-210.900(1) - Form

4. Equivalent Allowable Emissions:

5. Method of Compliance (limit to 60 characters):

| Emissions unit intollitation section 2 of 3 | <b>Emissions</b> | Unit Information Section | 2 | of | 9 |
|---|------------------|--------------------------|---|----|---|
|---|------------------|--------------------------|---|----|---|

#### Pollutant Detail Information: 5 of 6

| 1. | Pollutant Emitted: VOC  |                      |
|----|---|----------------------|
| 2. | Total Percent Efficiency of Control:  | %                    |
| 3. | Potential Emissions: 1 lb/hour 3  | tons/year            |
| 4. | Synthetically Limited? [ ] Yes [X] No   |                      |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1   | tons/year            |
| 6. | Emission Factor: 0.76 lbs VOC / 1000 gal Oil<br>Reference: EPA AP-42 Table 1.3-4  |                      |
| 7. | Emissions Method Code: [ ] 0  | [ ] 5                |
| 8. | Calculation of Emissions (limit to 600 characters): Potential Emissions 0.76 lbs VOC/1000 gal Oil x 6623.71 1000 gal Oil/yr | _                    |
|    | 2000 lbs/ton  |                      |
|    |   |                      |
|    |   |                      |
|    |   |                      |
| 9. | Pollutant Potential/Estimated Emissions Comment (limit to 200 charact   | ters):               |
|    | tential Emission based on maximum firing rate, 8760 hours/yr and minin<br>from 1992-1995                                    | num heating value of |
|    |   |                      |

DEP Form No. 62-210.900(1) - Form

| Emissions | Unit I  | nformation       | Section | 2 | of | 9 |  |
|-----------|---------|------------------|---------|---|----|---|--|
|           | O III I | *** ** ********* | Occion. | _ | O. | _ |  |

### Allowable Emissions (Pollutant identified on front of page)

| <b>A.</b>   |                      |                     |
|---|----------------------|---------------------|
| 1. Basis for Allowable Emissions Code:                                    |                      |                     |
| 2. Future Effective Date of Allowable Emissions:                          |                      |                     |
| 3. Requested Allowable Emissions and Units:                               |                      |                     |
| 4. Equivalent Allowable Emissions:  | lb/hour              | tons/year           |
| 5. Method of Compliance (limit to 60 characters):                         |                      |                     |
| 6. Pollutant Allowable Emissions Comment (Desc to 200 characters):        | of Related Operating | Method/Mode) (limit |
|   |                      |                     |
|   |                      |                     |
| В.  | -                    | <del>.</del>        |
| Basis for Allowable Emissions Code:                                       |                      |                     |
| 2. Future Effective Date of Allowable Emissions:                          |                      |                     |
| 3. Requested Allowable Emissions and Units:                               |                      |                     |
| 4. Equivalent Allowable Emissions:  | lb/hr                | tons/year           |
| 5. Method of Compliance (limit to 60 characters):                         |                      |                     |
| 6. Pollutant Allowable Emissions Comment (Desc (limit to 200 characters): | of Related Operating | Method/Mode)        |

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| Emissions | Unit | Inform | ation | Section | 2 | of | 9 |  |
|-----------|------|--------|-------|---------|---|----|---|--|
|           |      |        |       |         |   |    |   |  |

#### Pollutant Detail Information: 6 of 6

| 1. | Pollutant Emitted: PM10   |
|----|---|
| 2. | Total Percent Efficiency of Control: %  |
| 3. | Potential Emissions: 13 lb/hour 56 tons/year  |
| 4. | Synthetically Limited? [ ] Yes [X] No   |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1   |
| 6. | Emission Factor: {(9.19 x%S) + 3.22 lbs PM10/1000 gal Oil} x Particle Size Mult (0.71)<br>Reference: EPA AP-42 Table 1.3-5  |
| 7. | Emissions Method Code: [ ] 0  |
| 8. | Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Oil Firing [{(9.19 x 2.25%S) + 3.22 lbs PM10/1000 gal Oil} x 6623.71 1000 gal Oil/yr] x 0.71 |
|    | 2000 lbs/ton  |
|    |   |
|    |   |
|    |   |
| 9. | Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  |
|    | tential Emission based on maximum firing rate, 8760 hours/yr and minimum heating value of from 1992-1995.   |
|    |   |

DEP Form No. 62-210.900(1) - Form

| All       | owable Emissions (Pollutant identified on front                         | of page)             |                     |
|-----------|---|----------------------|---------------------|
| <b>A.</b> |   |                      |                     |
| 1.        | Basis for Allowable Emissions Code:                                     |                      |                     |
| 2.        | Future Effective Date of Allowable Emissions:                           |                      |                     |
| 3.        | Requested Allowable Emissions and Units:                                |                      |                     |
| 4.        | Equivalent Allowable Emissions:   | lb/hour              | tons/year           |
| 5.        | Method of Compliance (limit to 60 characters):                          |                      |                     |
| 1         | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related Operating | Method/Mode) (limit |
|           |   |                      |                     |
|           |   |                      |                     |
|           |   |                      |                     |
| В.        |   |                      |                     |
| 1.        | Basis for Allowable Emissions Code:                                     |                      | <u> </u>            |
| 2.        | Future Effective Date of Allowable Emissions:                           |                      | · · · · ·           |
| 3.        | Requested Allowable Emissions and Units:                                |                      | <u>-</u>            |
| 4.        | Equivalent Allowable Emissions:   | lb/hr                | tons/year           |
| 5.        | Method of Compliance (limit to 60 characters):                          |                      | <del>-</del>        |
| 6.        | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related Operating | Method/Mode)        |
|           |   |                      |                     |
|           | )   |                      |                     |
|           |   |                      |                     |

Emissions Unit Information Section \_\_\_\_2\_\_ of \_\_\_\_9\_\_\_

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| Emissions unit intormation Section 2 of 3 | Emissions | Unit Information Section | 2 | of | 9 |  |
|---|-----------|--------------------------|---|----|---|--|
|---|-----------|--------------------------|---|----|---|--|

### I. VISIBLE EMISSIONS INFORMATION (Regulated Emissions Units Only)

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation \_\_\_1\_\_ of \_\_\_1\_\_

| 1.             | Visible Emissions Subtype: VE   |  |              |            |               |
|----------------|---|--|--------------|------------|---------------|
| 2.             | Basis for Allowable Opacity:  | [X] Rule                                     | [            | ] Other    |               |
| 3.             | Requested Allowable Opacity: Normal Conditions: 20 % Maximum Period of Excess Opacity Al  | Exceptional Cond<br>lowed:                   | litions:     |            | %<br>min/hour |
| 4.             | Method of Compliance:   |  |              |            |               |
|                | mpliance Test Method 9 conducted annu   |  |              |            |               |
| pro            | ocess input which are expected to result  | in the highest emissi                        | ons and      | within ten | (10%) of the  |
| _              | ed capacity of the source.  |  |              |            |               |
| 5.             | Visible Emissions Comment (limit to 20  | 00 characters):                              |              |            |               |
|                |   |  |              |            |               |
|                |   |  |              |            |               |
|                |   |  |              |            |               |
|                |   |  |              |            |               |
|                |   |  |              |            |               |
|                |   |  |              |            |               |
|                |   |  |              |            |               |
| <u>Vi</u>      | sible Emissions Limitation: Visible Er  | missions Limitation _                        | <del>-</del> | of         |               |
| <u>Vi</u>      |   | missions Limitation _                        |              | of         |               |
|                | Visible Emissions Subtype:  | missions Limitation _                        |              | of         |               |
| 1.             |   |  | [            |            |               |
| 1.             | Visible Emissions Subtype: Basis for Allowable Opacity:   |  | [            |            |               |
| 1.             | Visible Emissions Subtype:  | [ ] Rule                                     | [            |            | %             |
| 1.             | Visible Emissions Subtype:  Basis for Allowable Opacity:  Requested Allowable Opacity:  | [ ] Rule  Exceptional Cond                   | [            |            | %<br>min/hour |
| 1.             | Visible Emissions Subtype: Basis for Allowable Opacity: Requested Allowable Opacity: Normal Conditions: %   | [ ] Rule  Exceptional Cond                   | [            |            | · ·           |
| 1.<br>2.<br>3. | Visible Emissions Subtype: Basis for Allowable Opacity: Requested Allowable Opacity: Normal Conditions: % Maximum Period of Excess Opacity Al                       | [ ] Rule  Exceptional Cond                   | [            |            | · ·           |
| 1.<br>2.<br>3. | Visible Emissions Subtype: Basis for Allowable Opacity: Requested Allowable Opacity: Normal Conditions: %   | [ ] Rule  Exceptional Cond                   | [            |            | · ·           |
| 1.<br>2.<br>3. | Visible Emissions Subtype: Basis for Allowable Opacity: Requested Allowable Opacity: Normal Conditions: % Maximum Period of Excess Opacity Al Method of Compliance: | [ ] Rule  Exceptional Conditional Conditions | [            |            | · ·           |
| 1.<br>2.<br>3. | Visible Emissions Subtype: Basis for Allowable Opacity: Requested Allowable Opacity: Normal Conditions: % Maximum Period of Excess Opacity Al                       | [ ] Rule  Exceptional Conditional Conditions | [            |            | · ·           |
| 3.<br>4.       | Visible Emissions Subtype: Basis for Allowable Opacity: Requested Allowable Opacity: Normal Conditions: % Maximum Period of Excess Opacity Al Method of Compliance: | [ ] Rule  Exceptional Conditional Conditions | [            |            | · ·           |
| 3.<br>4.       | Visible Emissions Subtype: Basis for Allowable Opacity: Requested Allowable Opacity: Normal Conditions: % Maximum Period of Excess Opacity Al Method of Compliance: | [ ] Rule  Exceptional Conditional Conditions | [            |            | · ·           |
| 3.<br>4.       | Visible Emissions Subtype: Basis for Allowable Opacity: Requested Allowable Opacity: Normal Conditions: % Maximum Period of Excess Opacity Al Method of Compliance: | [ ] Rule  Exceptional Conditional Conditions | [            |            | · ·           |
| 3.<br>4.       | Visible Emissions Subtype: Basis for Allowable Opacity: Requested Allowable Opacity: Normal Conditions: % Maximum Period of Excess Opacity Al Method of Compliance: | [ ] Rule  Exceptional Conditional Conditions | [            |            | · ·           |
| 1.<br>2.<br>3. | Visible Emissions Subtype: Basis for Allowable Opacity: Requested Allowable Opacity: Normal Conditions: % Maximum Period of Excess Opacity Al Method of Compliance: | [ ] Rule  Exceptional Conditional Conditions | [            |            | · ·           |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 2 | of | 9 | ļ |
|------------------------------------|---|----|---|---|
|------------------------------------|---|----|---|---|

### J. CONTINUOUS MONITOR INFORMATION (Regulated Emissions Units Only)

Continuous Monitoring System: Continuous Monitor of

| 1.        | Parameter Code:                      | 2.  | Pollutant(s): |    |        |   |   |
|-----------|--------------------------------------|-----|---------------|----|--------|---|---|
|           | CMS Requirement:                     | [   | ] Rule        |    | _      | Γ | ] |
| 1         | her                                  | L   | 1             |    |        | L | , |
|           | Monitor Information:                 |     |               |    |        |   |   |
|           | Manufacturer:                        |     |               |    |        |   |   |
|           | Model Number:                        |     |               |    |        |   |   |
|           | Serial Number:                       |     |               |    |        | _ |   |
| 5.        | Installation Date:                   |     |               |    |        |   |   |
| 6.        | Performance Specification Test Date: |     |               |    |        |   |   |
| 7.        | Continuous Monitor Comment (limit to | 200 | characters):  |    |        |   |   |
|           | `                                    |     | •             |    |        |   |   |
|           |                                      |     |               |    |        |   |   |
|           |                                      |     |               |    |        |   |   |
|           |                                      |     |               |    |        |   |   |
|           |                                      |     |               |    |        |   |   |
|           |                                      |     |               |    |        |   |   |
|           |                                      |     |               |    |        |   |   |
| <u>Co</u> | ntinuous Monitoring System: Continu  | ous | Monitor       | of |        |   |   |
| _         |                                      | 1_  |               |    |        |   |   |
| 1.        | Parameter Code:                      | 2.  | Pollutant(s): | -  |        |   |   |
| 3.        | CMS Requirement:                     |     |               | [  | ] Rule |   |   |
|           | [ ] Other                            |     |               |    |        |   |   |
| 4.        | Monitor Information:                 |     |               |    |        |   |   |
|           | Manufacturer: Model Number:          |     |               |    |        |   |   |
|           | Serial Number:                       |     |               |    |        |   |   |
| 5.        | Installation Date:                   |     |               |    |        |   |   |
|           |                                      |     |               |    |        |   |   |
|           | Performance Specification Test Date: |     |               |    |        |   |   |
| 7.        | Continuous Monitor Comment (limit to | 200 | characters):  |    |        |   |   |
|           |                                      |     |               |    |        |   |   |
|           |                                      |     |               |    |        |   |   |
|           |                                      |     |               |    |        |   |   |
| 1         |                                      |     |               |    |        |   |   |
|           |                                      |     |               |    |        |   |   |
|           |                                      |     |               |    |        |   |   |
|           |                                      |     |               |    |        |   |   |

DEP Form No. 62-210.900(1) - Form

|  | Emissions | Unit Information Section | 2 | of | 9 |  |
|--|-----------|--------------------------|---|----|---|--|
|--|-----------|--------------------------|---|----|---|--|

### K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

(Regulated and Unregulated Emissions Units)

#### **PSD Increment Consumption Determination**

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

- Check the first statement, if any, that applies and skip remaining statements.
  [ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
  [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
  [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
  [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- [X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

DEP Form No. 62-210.900(1) - Form

| En | nissions Unit Information Section _   | 2 of9                                      |  |  |  |  |  |
|----|---|--|--|--|--|--|--|
| 2. | Increment Consuming for Nitrogen l  | Dioxide?                                   |  |  |  |  |  |
|    | If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements. |  |  |  |  |  |  |
|    |   | PSD review previou                         | ergoing PSD review as part of this sly, for nitrogen dioxide. If so,   |  |  |  |  |
|    | paragraph (c) of the definition F.A.C., and the emissions unit  | of "major source of addressed in this see  | d as an EPA major source pursuant to<br>air pollution" in Chapter 62-213,<br>ction commenced (or will commence)<br>e emissions are zero, and emissions |  |  |  |  |
|    |   | eration after Februar                      | d as an EPA major source, and the y 8, 1988, but before March 28, ions unit consumes increment.  |  |  |  |  |
|    | [ ] For any facility, the emissions of 1988. If so, baseline emissions  | • `  | egin) initial operation after March 28, ions unit consumes increment.  |  |  |  |  |
|    | In such case, additional analysi  | s, beyond the scope<br>emissions have occu | ons of the emissions unit are nonzero. of this application, is needed to rred (or will occur) after the baseline                                       |  |  |  |  |
| 3. | Increment Consuming/Expanding Co  | ode:                                       |  |  |  |  |  |
|    | PM [ ] C  | [ ] E                                      | [ ] Unknown  |  |  |  |  |
|    | SO2 [ ] C<br>NO2 [ ] C  | [ ] E<br>[ ] E                             | [ ] Unknown  |  |  |  |  |
| 4. | Baseline Emissions:   |  |  |  |  |  |  |
|    | PM  | lb/hour                                    | tons/year  |  |  |  |  |
|    | SO2   | lb/hour                                    | tons/year  |  |  |  |  |
|    | NO2   |  | tons/year  |  |  |  |  |
| 5. | PSD Comment (limit to 200 characte  | ers): Commission y                         | ear is 1961  |  |  |  |  |

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| <b>Emissions</b> | Unit | Information | Section | 2 | of | 9 |
|------------------|------|-------------|---------|---|----|---|
|                  |      |             |         |   |    |   |

# L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

### Supplemental Requirements for All Applications

| [x ] Attached, Document ID:_Att C [ ] Not Applicable [ ] Waiver Requested  2. Fuel Analysis or Specification [x ] Attached, Document ID:_Att. D_ [ ] Not Applicable [ ] Waiver Requested  3. Detailed Description of Control Equipment [ ] Attached, Document ID: [x ] Not Applicable [ ] Waiver Requested  4. Description of Stack Sampling Facilities [x ] Attached, Document ID:_Att. E [ ] Not Applicable [ ] Waiver Requested  5. Compliance Test Report [ ] Attached, Document ID: [ ] Previously submitted, Date: [x ] Not Applicable  6. Procedures for Startup and Shutdown [ ] Attached, Document ID: [x ] Not Applicable  7. Operation and Maintenance Plan [ ] Attached, Document ID: [x ] Not Applicable  8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID: [x ] Not Applicable  9. Other Information Required by Rule or Statute [ ] Attached, Document ID: [x ] Not Applicable | 1. | Process Flow Diagram  |
|--|----|---|
| [x ] Attached, Document ID:_Att. D_ [ ] Not Applicable [ ] Waiver Requested  3. Detailed Description of Control Equipment [ ] Attached, Document ID: [x ] Not Applicable [ ] Waiver Requested  4. Description of Stack Sampling Facilities [x ] Attached, Document ID:_Att. E_ [ ] Not Applicable [ ] Waiver Requested  5. Compliance Test Report [ ] Attached, Document ID: [ ] Previously submitted, Date: [ x ] Not Applicable  6. Procedures for Startup and Shutdown [ ] Attached, Document ID: [x ] Not Applicable  7. Operation and Maintenance Plan [ ] Attached, Document ID: [x ] Not Applicable  8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID: [x ] Not Applicable  9. Other Information Required by Rule or Statute   |    | [x ] Attached, Document ID:_Att C [ ] Not Applicable [ ] Waiver Requested   |
| [x ] Attached, Document ID:_Att. D_ [ ] Not Applicable [ ] Waiver Requested  3. Detailed Description of Control Equipment [ ] Attached, Document ID: [x ] Not Applicable [ ] Waiver Requested  4. Description of Stack Sampling Facilities [x ] Attached, Document ID:_Att. E_ [ ] Not Applicable [ ] Waiver Requested  5. Compliance Test Report [ ] Attached, Document ID: [ ] Previously submitted, Date: [ x ] Not Applicable  6. Procedures for Startup and Shutdown [ ] Attached, Document ID: [x ] Not Applicable  7. Operation and Maintenance Plan [ ] Attached, Document ID: [x ] Not Applicable  8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID: [x ] Not Applicable  9. Other Information Required by Rule or Statute   | 2. | Fuel Analysis or Specification  |
| [ ] Attached, Document ID: [x ] Not Applicable [ ] Waiver Requested  4. Description of Stack Sampling Facilities [x ] Attached, Document ID:_Att. E [ ] Not Applicable [ ] Waiver Requested  5. Compliance Test Report [ ] Attached, Document ID: [ ] Previously submitted, Date: [x ] Not Applicable  6. Procedures for Startup and Shutdown [ ] Attached, Document ID: [x ] Not Applicable  7. Operation and Maintenance Plan [ ] Attached, Document ID: [x ] Not Applicable  8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID: [x ] Not Applicable  9. Other Information Required by Rule or Statute   | •  | [x ] Attached, Document ID:_Att. D_ [ ] Not Applicable [ ] Waiver Requested |
| [ ] Attached, Document ID: [x ] Not Applicable [ ] Waiver Requested  4. Description of Stack Sampling Facilities [x ] Attached, Document ID:_Att. E [ ] Not Applicable [ ] Waiver Requested  5. Compliance Test Report [ ] Attached, Document ID: [ ] Previously submitted, Date: [x ] Not Applicable  6. Procedures for Startup and Shutdown [ ] Attached, Document ID: [x ] Not Applicable  7. Operation and Maintenance Plan [ ] Attached, Document ID: [x ] Not Applicable  8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID: [x ] Not Applicable  9. Other Information Required by Rule or Statute   | 3. | Detailed Description of Control Equipment                                   |
| [x ] Attached, Document ID:_Att. E [ ] Not Applicable [ ] Waiver Requested  5. Compliance Test Report [ ] Attached, Document ID: [ ] Previously submitted, Date: [x ] Not Applicable  6. Procedures for Startup and Shutdown [ ] Attached, Document ID: [x ] Not Applicable  7. Operation and Maintenance Plan [ ] Attached, Document ID: [x ] Not Applicable  8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID: [x ] Not Applicable  9. Other Information Required by Rule or Statute  |    |   |
| [x ] Attached, Document ID:_Att. E [ ] Not Applicable [ ] Waiver Requested  5. Compliance Test Report [ ] Attached, Document ID: [ ] Previously submitted, Date: [x ] Not Applicable  6. Procedures for Startup and Shutdown [ ] Attached, Document ID: [x ] Not Applicable  7. Operation and Maintenance Plan [ ] Attached, Document ID: [x ] Not Applicable  8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID: [x ] Not Applicable  9. Other Information Required by Rule or Statute  | 4. | Description of Stack Sampling Facilities                                    |
| [ ] Attached, Document ID:  [ ] Previously submitted, Date:  [x ] Not Applicable  6. Procedures for Startup and Shutdown [ ] Attached, Document ID: [x ] Not Applicable  7. Operation and Maintenance Plan [ ] Attached, Document ID: [x ] Not Applicable  8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID: [x ] Not Applicable  9. Other Information Required by Rule or Statute  |    | •   |
| [ ] Previously submitted, Date:  | 5. | Compliance Test Report  |
| [x ] Not Applicable  6. Procedures for Startup and Shutdown [ ] Attached, Document ID: [x ] Not Applicable  7. Operation and Maintenance Plan [ ] Attached, Document ID: [x ] Not Applicable  8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID: [x ] Not Applicable  9. Other Information Required by Rule or Statute   |    | Attached, Document ID:  |
| [x ] Not Applicable  6. Procedures for Startup and Shutdown [ ] Attached, Document ID: [x ] Not Applicable  7. Operation and Maintenance Plan [ ] Attached, Document ID: [x ] Not Applicable  8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID: [x ] Not Applicable  9. Other Information Required by Rule or Statute   |    |   |
| <ul> <li>6. Procedures for Startup and Shutdown  [ ] Attached, Document ID: [x ] Not Applicable</li> <li>7. Operation and Maintenance Plan  [ ] Attached, Document ID: [x ] Not Applicable</li> <li>8. Supplemental Information for Construction Permit Application  [ ] Attached, Document ID: [x ] Not Applicable</li> <li>9. Other Information Required by Rule or Statute</li> </ul>   |    | [ ] Previously submitted, Date:   |
| [ ] Attached, Document ID: [x ] Not Applicable  7. Operation and Maintenance Plan [ ] Attached, Document ID: [x ] Not Applicable  8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID: [x ] Not Applicable  9. Other Information Required by Rule or Statute   |    | [x ] Not Applicable   |
| [ ] Attached, Document ID: [x ] Not Applicable  7. Operation and Maintenance Plan [ ] Attached, Document ID: [x ] Not Applicable  8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID: [x ] Not Applicable  9. Other Information Required by Rule or Statute   | 6. | Procedures for Startup and Shutdown   |
| <ul> <li>[ ] Attached, Document ID: [x ] Not Applicable</li> <li>8. Supplemental Information for Construction Permit Application     [ ] Attached, Document ID: [x ] Not Applicable</li> <li>9. Other Information Required by Rule or Statute</li> </ul>   |    |   |
| <ul> <li>[ ] Attached, Document ID: [x ] Not Applicable</li> <li>8. Supplemental Information for Construction Permit Application     [ ] Attached, Document ID: [x ] Not Applicable</li> <li>9. Other Information Required by Rule or Statute</li> </ul>   | 7. | Operation and Maintenance Plan  |
| 8. Supplemental Information for Construction Permit Application  [ ] Attached, Document ID: [x ] Not Applicable  9. Other Information Required by Rule or Statute  |    | ·   |
| [ ] Attached, Document ID: [x ] Not Applicable  9. Other Information Required by Rule or Statute   |    |   |
| [ ] Attached, Document ID: [x ] Not Applicable  9. Other Information Required by Rule or Statute   | 8. | Supplemental Information for Construction Permit Application                |
|  |    | [ ] Attached, Document ID: [x ] Not Applicable                              |
|  | 9. | Other Information Required by Rule or Statute                               |
|  |    |   |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 2 of |
|---|
|---|

#### Additional Supplemental Requirements for Category I Applications Only

| 10. Alternative Methods of Operation   |
|--|
| [ ] Attached, Document ID: [x ] Not Applicable                                     |
| 11. Alternative Modes of Operation (Emissions Trading)                             |
| [ ] Attached, Document ID: [x ] Not Applicable                                     |
| 12. Identification of Additional Applicable Requirements                           |
| [ ] Attached, Document ID: [x ] Not Applicable                                     |
| 13. Compliance Assurance Monitoring Plan   |
| [ ] Attached, Document ID: [x ] Not Applicable                                     |
| 14. Acid Rain Application (Hard-copy Required)                                     |
| [ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID:   |
| [ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: |
| [ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID:        |
| [ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID:    |
| [x ] Not Applicable  |

| Emissions Unit Information Section | 3 | of | 9 |  |
|------------------------------------|---|----|---|--|
|------------------------------------|---|----|---|--|

#### III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

| A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)   |
|---|
| Type of Emissions Unit Addressed in This Section  |
| 1. Regulated or Unregulated Emissions Unit? Check one:  |
| [X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.  |
| [ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.   |
| 2. Single Process, Group of Processes, or Fugitive Only? Check one:   |
| [X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). |
| [ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.   |
| [ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.  |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 3 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

# B. GENERAL EMISSIONS UNIT INFORMATION (Regulated and Unregulated Emissions Units)

#### **Emissions Unit Description and Status**

|            |  |                               | <del></del>             |  |  |  |  |
|------------|--|-------------------------------|-------------------------|--|--|--|--|
|            | 1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): |                               |                         |  |  |  |  |
| Fe         | Fossil Fuel Steam Generating Unit 3 (S-3)  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
| 2.         | Emissions Unit Identification  | on Number:[ ]No Corresponding | g ID [*] Unknown        |  |  |  |  |
|            |  | 009                           |                         |  |  |  |  |
| 3.         | Emissions Unit Status  | 4. Acid Rain Unit?            | 5. Emissions Unit Major |  |  |  |  |
|            | Code: A  | [x ] Yes [ ] No               | Group SIC Code: 49      |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
| 6          | Emissions Unit Comment (1  | imit to 500 characters):      | <u> </u>                |  |  |  |  |
| 0.         | Emissions out comment (  | mile to 300 characters).      |                         |  |  |  |  |
|            |  |                               | •                       |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
| <u>E</u> n | nissions Unit Control Equi   | <u>pment</u>                  |                         |  |  |  |  |
|            |  |                               | •                       |  |  |  |  |
| Α.         |  |                               |                         |  |  |  |  |
| 1.         | Description (limit to 200 ch   | aracters):                    |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
|            |  |                               |                         |  |  |  |  |
| 2.         | 2. Control Device or Method Code:  |                               |                         |  |  |  |  |
| -          |  |                               |                         |  |  |  |  |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section3 of9 |  |  |  |  |
|---|--|--|--|--|
| <b>B</b> .                              |  |  |  |  |
| 1.                                      | Description (limit to 200 characters): |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
| 2.                                      | Control Device or Method Code:         |  |  |  |
|   |  |  |  |  |
| <u>C</u> .                              |  |  |  |  |
| 1.                                      | Description (limit to 200 characters): |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
| 2.                                      | Control Device or Method Code:         |  |  |  |

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| Emissions | Unit | Information | Section | 3 | of | 9 |  |
|-----------|------|-------------|---------|---|----|---|--|
|           |      |             |         |   |    |   |  |

# C. EMISSIONS UNIT DETAIL INFORMATION (Regulated Emissions Units Only)

#### **Emissions Unit Details**

| 1. | Initial Startup Date: 1966           |    |         |  |
|----|--------------------------------------|----|---------|--|
| 2. | Long-term Reserve Shutdown Date:     |    |         |  |
|    |                                      |    |         |  |
| 3. | Package Unit:                        |    |         |  |
|    | Manufacturer:                        |    |         |  |
|    | Model Number:                        |    |         |  |
| 4. | Generator Nameplate Rating: 26.5     | MW |         |  |
|    |                                      |    |         |  |
| 5. | Incinerator Information:             |    |         |  |
|    | Dwell Temperature:                   |    | °F      |  |
|    | Dwell Time:                          |    | seconds |  |
|    | Incinerator Afterburner Temperature: |    | °F      |  |
|    | -                                    | _  |         |  |

#### **Emissions Unit Operating Capacity**

| 1. | Maximum Heat Input Rate: 325.1  |                        | mmBtu/hr |
|----|---------------------------------|------------------------|----------|
| 2. | Maximum Incineration Rate:      | lb/hr                  | tons/day |
| 3. | Maximum Process or Throughput   | Rate:                  |          |
| 4. | Maximum Production Rate:        |                        |          |
| 5. | Operating Capacity Comment (lim | it to 200 characters): |          |
|    |                                 |                        |          |
|    |                                 |                        |          |
|    |                                 |                        |          |
|    |                                 |                        |          |
|    |                                 |                        |          |
|    |                                 |                        |          |
|    |                                 |                        |          |

#### **Emissions Unit Operating Schedule**

| Requested Maximum Operating Schedule: |                  |            |  |  |  |  |
|---------------------------------------|------------------|------------|--|--|--|--|
| hours/day                             |                  | days/week  |  |  |  |  |
| weeks/year                            | 8760 <b>Each</b> | hours/year |  |  |  |  |

DEP Form No. 62-210.900(1) - Form

| Linissions Unit Initi mation Section 5 of 7 | mation Section 3 of 9 |
|---|-----------------------|
|---|-----------------------|

# D. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

| applications involving non | Title-V sources. See Inst | ructions.) | ategory III |
|----------------------------|---------------------------|------------|-------------|
|                            |                           |            | -           |
|                            |                           |            |             |
|                            |                           |            |             |
|                            |                           |            |             |
|                            |                           |            |             |
|                            |                           |            |             |
|                            |                           |            |             |
|                            |                           |            |             |
|                            |                           |            |             |
|                            |                           |            |             |
|                            |                           |            |             |
|                            |                           |            |             |
|                            |                           |            |             |
|                            |                           |            |             |

DEP Form No. 62-210.900(1) - Form

| Emissions | Unit | Information | Section | 3 | of | 9 |  |
|-----------|------|-------------|---------|---|----|---|--|
|           |      |             |         |   |    |   |  |

<u>List of Applicable Regulations</u> (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

| Federal: 40 CFR 72  | Acid Rain Program  |
|---|--|
| 40 CFR 73   | SO2 Allowance  |
| 40 CFR 75   | Continuous Emissions Monitoring  |
| State: 62-4, F.A.C.   | Permitting Requirements  |
| 62-210, F.A.C.  | Stationary Sources - General Requirements  |
| 62-210.700(3)   | Visible Emissions Soot Blowing Opacity limit (60%)   |
| 62-213, F.A.C.  | Title V Permitting Requirements  |
| 62-275.410, F.A.C.  | Air Quality Areas - Ozone Nonattainment  |
| 62-296.405(1)(a), F.A.C.  | Stationary Sources - Visible Emissions Standards (Steam Generating Unit with Max Heat Input > 250 MMBTU/hr)            |
| 62-296.405(1)(b)  | 0.1 lbs PM/MMBTU particulate emission limit  |
| 62-296.570 (4)(b)(9)  | NOx RACT Emission Limitations  |
| 62-297.410(9), F.A.C.   | Stationary Sources - EPA Method 9 for<br>Visible Emissions Testing   |
| 62-297.410(5), F.A.C.   | EPA Test Method 5 for PM (stack temperature> 375 F)  |
| 62-297.410(17), F.A.C.  | EPA Test Method 17 for PM (stack temperature < 375 F)  |
| Section 403.501 Florida Statutes (PPSA Certification #PA 74-05 (I.1)) | Compliance with %S limit by sampling and analysis of as-fired fuel oil. Sample on used fuel. Analyse composite monthly |
| Section 403.501 Florida Statutes (PPSA Certification #PA 74-05 (I.1)) | 2.25% S in Fuel Oil limit  |
| Title V Core List (3/25/96)   | Presumptively Applicable (Federal & State)   |
| Local: None   |  |

DEP Form No. 62-210.900(1) - Form

| Emissions unit intormation occurr 3 or 2 | Emissions | <b>Unit Informat</b> | tion Section | 3 | of | 9 |  |
|--|-----------|----------------------|--------------|---|----|---|--|
|--|-----------|----------------------|--------------|---|----|---|--|

### E. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

#### **Emission Point Description and Type**

| ı            | Identification of Point on Plot Plan or Flow Diagram: Fossil Fuel Steam Generating Unit #3 |
|--------------|--|
|              |  |
| 2.           | Emission Point Type Code:  |
|              | [X] 1 [] 2 [] 3 [] 4   |
| 3.           | Descriptions of Emissions Points Comprising this Emissions Unit for VE Tracking (limit to  |
|              | 100 characters per point):   |
|              |  |
|              |  |
|              |  |
|              |  |
|              |  |
|              |  |
|              |  |
|              |  |
|              |  |
| 4.           | ID Numbers or Descriptions of Emission Units with this Emission Point in Common:           |
|              | •  |
|              |  |
|              |  |
|              |  |
|              |  |
| 5.           | Discharge Type Code:   |
|              | [ ] D  |
|              |  |
| 6.           | Stack Height: 113 feet   |
| 7            | Exit Diameter: 7 feet  |
| <b>,</b> , . | Lat Diameter. 7  |
| 8.           | Exit Temperature: 293 (gas); 289 (oil)   |
|              |  |

DEP Form No. 62-210.900(1) - Form

### Emissions Unit Information Section \_\_\_3\_\_ of \_\_\_9\_\_

| 9. Actual Volumetrie  | Flow Rate: 118719 (gas); 1212    | 338 (oil) acfm     |
|-----------------------|----------------------------------|--------------------|
| 10. Percent Water Va  | рог :                            | %                  |
| 11. Maximum Dry Sta   | andard Flow Rate:                | dscfm              |
| 12. Nonstack Emission | on Point Height:                 | feet               |
| 13. Emission Point U' | TM Coordinates:                  |                    |
| Zone: 17              | East (km): 592.8                 | North (km): 2943.7 |
| 14. Emission Point Co | omment (limit to 200 characters) | ):                 |
|                       |                                  |                    |
|                       |                                  |                    |
|                       |                                  |                    |
|                       |                                  |                    |
|                       |                                  |                    |
|                       |                                  |                    |
|                       |                                  |                    |

DEP Form No. 62-210.900(1) - Form

| Lingsions oniciniol mation Section 9 of 7 | nation Section 3 of 9 | tion Section | Unit l | Emissions |
|---|-----------------------|--------------|--------|-----------|
|---|-----------------------|--------------|--------|-----------|

# F. SEGMENT (PROCESS/FUEL) INFORMATION (Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment \_\_1\_\_ of \_\_2\_\_

| 1. Segment Description (Process/Fuel Type an (limit to 500 characters): | d Associated Operating Method/Mode) |
|---|-------------------------------------|
| Natural Gas Used in Boiler  |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
| ·   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
| 2. Source Classification Code (SCC):                                    |                                     |
| 10100601  |                                     |
| 3. SCC Units:   | ·                                   |
| MMCF  |                                     |
| 4. Maximum Hourly Rate: 0.317   | 5. Maximum Annual Rate: 2773        |
|   | 2,7,2                               |
| 6. Estimated Annual Activity Factor:                                    | <u> </u>                            |
| o. Estimated Almuai Activity Factor.                                    |                                     |
|   |                                     |
| 7. Maximum Percent Sulfur: 0  | 8. Maximum Percent Ash:             |
|   |                                     |
| 9. Million Btu per SCC Unit: 1027                                       |                                     |
| •   |                                     |
| 10. Segment Comment (limit to 200 characters)                           |                                     |
| 10. Sogment Comment (mint to 200 characters)                            | •                                   |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 3_   | of | 9_ | <del></del> |
|------------------------------------|------|----|----|-------------|
| Segment Description and Rate: Seg  | ment | 2  | of | 2           |

| 1.  | ·   | d A | ssociated Operating Method/Mode) |  |
|-----|---|-----|----------------------------------|--|
| Nu  | (limit to 500 characters): mber 5 Fuel Oil Used in Boiler |     |                                  |  |
|     |   |     |                                  |  |
|     |   |     |                                  |  |
|     |   |     |                                  |  |
|     |   |     |                                  |  |
|     |   |     |                                  |  |
|     |   |     | •                                |  |
|     |   |     |                                  |  |
|     |   |     |                                  |  |
|     |   |     |                                  |  |
| 2.  | Source Classification Code (SCC): 1010040                 | )5  |                                  |  |
| 3.  | SCC Units: 1000 gallons burned                            |     |                                  |  |
| 1   | Maximum Hourly Rate: 2.22                                 | 5   | Maximum Annual Rate: 19432.13    |  |
| ٦.  | Maximum Hourly Rate. 2.22                                 | ٦.  | Maximum Aimua Rate. 19432.13     |  |
| 6.  | Estimated Annual Activity Factor:                         |     |                                  |  |
| 7.  | Maximum Percent Sulfur: 2.25                              | 8.  | Maximum Percent Ash:             |  |
| 9.  | Million Btu per SCC Unit: 146.6                           | _   |                                  |  |
| 10. | Segment Comment (limit to 200 characters)                 | :   |                                  |  |
|     |   |     |                                  |  |
|     |   |     |                                  |  |
|     |   |     |                                  |  |
|     |   |     |                                  |  |
|     |   |     |                                  |  |
|     |   |     |                                  |  |
|     |   |     |                                  |  |

DEP Form No. 62-210.900(1) - Form

### G. EMISSIONS UNIT POLLUTANTS (Regulated and Unregulated Emissions Units)

| 1 7 11 7 1           |                    |                      | 4 70 11         |
|----------------------|--------------------|----------------------|-----------------|
| 1. Pollutant Emitted | 2. Primary Control | 3. Secondary Control | 4. Pollutant    |
|                      | Device Code        | Device Code          | Regulatory Code |
| SO <sub>2</sub>      |                    |                      | EL              |
| NO <sub>X</sub>      |                    |                      | EL              |
| PM                   |                    |                      | EL              |
| СО                   |                    |                      | NS              |
| VOC                  |                    |                      | NS              |
| PM <sub>10</sub>     |                    |                      | NS              |
| H095                 |                    |                      | NS              |
| H133                 |                    |                      | NS              |
| H104                 |                    |                      | NS              |
| H014                 |                    |                      | NS              |
| H015                 |                    |                      | NS              |
| H021                 |                    |                      | NS              |
| H027                 |                    |                      | NS              |
| H046                 |                    |                      | NS              |
| H047                 |                    |                      | NS              |
| H133                 |                    |                      | NS              |
| H162                 |                    |                      | NS              |
| Pb                   |                    |                      | NS              |
|                      |                    |                      |                 |

DEP Form No. 62-210.900(1) - Form

#### Pollutant Detail Information: 1 of 7

| 1.  | 1. Pollutant Emitted: SO2   |  |  |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|--|--|
| 2.  | 2. Total Percent Efficiency of Control: %   |  |  |  |  |  |  |  |  |
| 3.  | 3. Potential Emissions:784 lb/hour 3432 tons/year   |  |  |  |  |  |  |  |  |
| 4.  | 4. Synthetically Limited?  [ ] Yes [X ] No  |  |  |  |  |  |  |  |  |
| 5.  | Range of Estimated Fugitive/Other Emissions:  [ ] 1   |  |  |  |  |  |  |  |  |
| 6.  | 6. Emission Factor: 157 *%S lb SO2/1000 gal Oil Reference: EPA AP-42 Table 1.3-2 Criteria Pollutant Emission Factors For Uncontrolled Fuel Oil Combustion |  |  |  |  |  |  |  |  |
| 7. Emissions Method Code: [ ] 0                             |   |  |  |  |  |  |  |  |  |
| 8.  | 8. Calculation of Emissions (limit to 600 characters):  |  |  |  |  |  |  |  |  |
| 157 lbs SO2/1000 gal Oil x 2.25%S x 19432.13 1000 galOil/yr |   |  |  |  |  |  |  |  |  |
|   | 2000 lbs/ton  |  |  |  |  |  |  |  |  |
|   |   |  |  |  |  |  |  |  |  |
|   |   |  |  |  |  |  |  |  |  |
|   |   |  |  |  |  |  |  |  |  |
|   |   |  |  |  |  |  |  |  |  |
| 9.  | 9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):   |  |  |  |  |  |  |  |  |
| 1   | tential Emissions based on maximum firing rate, 8760 hours/year and the minimum oil ting value from 1992-1995.  |  |  |  |  |  |  |  |  |
|   |   |  |  |  |  |  |  |  |  |

DEP Form No. 62-210.900(1) - Form

| Em   | issions Unit Information Section3 of   | 9               |                       |  |  |  |  |  |  |
|------|--|-----------------|-----------------------|--|--|--|--|--|--|
| Allo | Allowable Emissions (Pollutant identified on front of page)                                      |                 |                       |  |  |  |  |  |  |
| Α.   |  | ·               |                       |  |  |  |  |  |  |
| 1.   | Basis for Allowable Emissions Code: Other  |                 |                       |  |  |  |  |  |  |
| 2.   | Future Effective Date of Allowable Emissions:  |                 |                       |  |  |  |  |  |  |
| 3.   | Requested Allowable Emissions and Units: 2.47  | 75 lb SO2/MMBTU |                       |  |  |  |  |  |  |
| 4.   | Equivalent Allowable Emissions: 804.6  | lb/hour 3524.25 | tons/year             |  |  |  |  |  |  |
|      | Method of Compliance (limit to 60 characters): rterly. SO2 emissions will be calculated stoichid |                 | s reports submitted   |  |  |  |  |  |  |
|      | Pollutant Allowable Emissions Comment (Desc 00 characters):Power Plant Citing Act Specific       | -               | g Method/Mode) (limit |  |  |  |  |  |  |
| •    |  |                 |                       |  |  |  |  |  |  |
|      |  |                 |                       |  |  |  |  |  |  |
|      |  |                 |                       |  |  |  |  |  |  |
| В.   |  |                 |                       |  |  |  |  |  |  |
|      | Basis for Allowable Emissions Code:  |                 | -                     |  |  |  |  |  |  |
|      | Entres Effective Date of Allemakia Fraincia  |                 |                       |  |  |  |  |  |  |
| 2.   | Future Effective Date of Allowable Emissions:  |                 |                       |  |  |  |  |  |  |
| 3.   | Requested Allowable Emissions and Units:   |                 |                       |  |  |  |  |  |  |
| 4.   | Equivalent Allowable Emissions:  | lb/hr           | tons/year             |  |  |  |  |  |  |
| 5.   | Method of Compliance (limit to 60 characters):   |                 |                       |  |  |  |  |  |  |

DEP Form No. 62-210.900(1) - Form

(limit to 200 characters):

Effective: 3-21-96

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode)

| <b>Emissions Unit Information Section</b> | 3 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

#### Pollutant Detail Information: 2 of 7

| 1. Pollutant Emitted: NOx   |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| 2. Total Percent Efficiency of Control: %   |  |  |  |  |  |  |  |
| 3. Potential Emissions: 162.6 lb/hour 711.97 tons/year  |  |  |  |  |  |  |  |
| 4. Synthetically Limited?  [ ] Yes [X] No   |  |  |  |  |  |  |  |
| 5. Range of Estimated Fugitive/Other Emis [ ] 1 [ ] 2 [   | ssions:  ] 3totons/year                        |  |  |  |  |  |  |
| 6. Emission Factor: 0.5 lb NOx / MMBtu Reference: NOx RACT RULE Will be met as demonstrated by stack test @ L, Stack Test Results       | Tom G. Smith Power Plant (7/93) See attachment |  |  |  |  |  |  |
| 7. Emissions Method Code: [ ] 0 [X] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5   |  |  |  |  |  |  |  |
| 8. Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Oil Firing 0.5 lbs NOx/MMBTU OIL x 2847876 MMBTU/yr |  |  |  |  |  |  |  |
| 2000 lbs/ton  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |
| 9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):   |  |  |  |  |  |  |  |
| Potential Emissions based on maximum firing rate and 8760 hours/year.   |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |

DEP Form No. 62-210.900(1) - Form

|  | Emissions | Unit Informa | tion Section | 3 | of | 9 |  |
|--|-----------|--------------|--------------|---|----|---|--|
|--|-----------|--------------|--------------|---|----|---|--|

#### Allowable Emissions (Pollutant identified on front of page)

| 1.       | Basis for Allowable Emissions Code: RULE                      |           |               |                | _      |
|----------|---|-----------|---------------|----------------|--------|
| 2.       | Future Effective Date of Allowable Emissions:                 |           |               |                |        |
| 3.       | Requested Allowable Emissions and Units: 0.5 l                | b / MMB   | TU            |                |        |
| 4.       | Equivalent Allowable Emissions: 162.6                         | lb/hour   | 711.97        | tons/year      |        |
| 5.       | Method of Compliance (limit to 60 characters):                | CEMS 3    | 0-day rolling | g average      |        |
| 6.<br>to | Pollutant Allowable Emissions Comment (Desc. 200 characters): | of Relate | ed Operating  | g Method/Mode) | (limit |
| В.       |   |           |               |                |        |
| 1.       | Basis for Allowable Emissions Code:                           |           |               |                |        |
| 2.       | Future Effective Date of Allowable Emissions:                 |           |               |                |        |
| 3.       | Requested Allowable Emissions and Units:                      |           |               |                |        |
| 4.       | Equivalent Allowable Emissions:                               | lb/hr     |               | tons/year      |        |

DEP Form No. 62-210.900(1) - Form

(limit to 200 characters):

5. Method of Compliance (limit to 60 characters):

Effective: 3-21-96

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode)

| Emissions Unit Information Section 3 of 9 | $\mathbf{E}$ | missions | Unit | Inform | ation | Section | 3 | of | 9 |  |
|---|--------------|----------|------|--------|-------|---------|---|----|---|--|
|---|--------------|----------|------|--------|-------|---------|---|----|---|--|

#### Pollutant Detail Information: 3 of 7

| 1.   | Pollutant Emitted: PM  |           |  |  |  |  |  |  |  |
|--|--|-----------|--|--|--|--|--|--|--|
| 2.   | 2. Total Percent Efficiency of Control: %  |           |  |  |  |  |  |  |  |
| 3.   | 3. Potential Emissions: 53 lb/hour 232 tons/year   |           |  |  |  |  |  |  |  |
| 4.   | 4. Synthetically Limited?  [ ] Yes [X] No  |           |  |  |  |  |  |  |  |
| 5.   | Range of Estimated Fugitive/Other Emissions:  [ ] 1  | tons/year |  |  |  |  |  |  |  |
| 6.   | 6. Emission Factor: (9.19 x %S + 3.22 lb PM/1000 gal Oil) Reference: EPA AP-42 Table 1.3-2                             |           |  |  |  |  |  |  |  |
| 7. Emissions Method Code:  [ ] 0   |  |           |  |  |  |  |  |  |  |
| 8. Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Oil Firing {(9.19 x2.25%S) + 3.22 lb PM/1000 gal Oil} x 19432.13 1000 gal Oil/yr |  |           |  |  |  |  |  |  |  |
| 2000 lbs/ton   |  |           |  |  |  |  |  |  |  |
|  |  |           |  |  |  |  |  |  |  |
|  |  |           |  |  |  |  |  |  |  |
|  |  |           |  |  |  |  |  |  |  |
| O. Pollutant Potential/Estimated Emissions Comment (limit to 200 sharestern):  |  |           |  |  |  |  |  |  |  |
| ) ヺ.<br> <br>  | 9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  |           |  |  |  |  |  |  |  |
|  | Potential Emissions based on maximum firing rate, 8760 hours/year and the minimum heating value of oil from 1992-1995. |           |  |  |  |  |  |  |  |
|  |  |           |  |  |  |  |  |  |  |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 3 | of | 9 |  |
|------------------------------------|---|----|---|--|
|------------------------------------|---|----|---|--|

### Allowable Emissions (Pollutant identified on front of page)

| <b>A.</b> |  |                       |                        |
|-----------|--|-----------------------|------------------------|
| 1.        | Basis for Allowable Emissions Code: RULE   | -                     |                        |
| 2.        | Future Effective Date of Allowable Emissions:  |                       |                        |
| 3.        | Requested Allowable Emissions and Units: 0.11  | b PM/MMBTU            |                        |
| 4.        | Equivalent Allowable Emissions: 32.5   | lb/hour 142.35        | tons/year              |
| 1         | Method of Compliance (limit to 60 characters): clusive of startup, exceeds 400 hours/yr. | Test required only if | unit operation on oil, |
| 1         | Pollutant Allowable Emissions Comment (Desc. 200 characters): Rule: 62-296.405(1)(b)     | of Related Operating  | g Method/Mode) (limit  |
| B.        |  |                       |                        |
| 1.        | Basis for Allowable Emissions Code:  |                       |                        |
| 2.        | Future Effective Date of Allowable Emissions:  |                       |                        |
| 3.        | Requested Allowable Emissions and Units:   |                       |                        |
| 4.        | Equivalent Allowable Emissions:  | lb/hr                 | tons/year              |
| 5.        | Method of Compliance (limit to 60 characters):   |                       |                        |
| 6.        | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters):                  | of Related Operating  | g Method/Mode)         |

DEP Form No. 62-210.900(1) - Form

#### Pollutant Detail Information: 4 of 7

| 1. | Pollutant Emitted: CO   |                     |
|----|---|---------------------|
| 2. | Total Percent Efficiency of Control:  | %                   |
| 3. | Potential Emissions: 13 lb/hour 55  | tons/year           |
| 4. | Synthetically Limited? [ ] Yes [X] No   |                     |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1   | tons/year           |
| 6. | Emission Factor: 40 lbs CO / MMCF gas Reference: EPA AP-42 Table 1.4-2  |                     |
| 7. | Emissions Method Code: [ ] 0  | [ ] 5               |
| 8. | Calculation of Emissions (limit to 600 characters): Potential Emissions 40 lbs CO/MMCF gas x 2773 MMCF gas/yr | Bases on Oil Firing |
|    | 2000 lbs/ton  |                     |
|    |   |                     |
|    |   |                     |
|    |   |                     |
| 9. | Pollutant Potential/Estimated Emissions Comment (limit to 200 charac  | ters):              |
|    | stential Emissions based on maximum firing rate, 8760 hours/year and the ating value reported from 1992-1995. | e minimum gas       |
|    |   |                     |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 3 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

### Allowable Emissions (Pollutant identified on front of page)

| <b>A.</b> |   |                  |                    |        |
|-----------|---|------------------|--------------------|--------|
| 1.        | Basis for Allowable Emissions Code:                                     |                  |                    |        |
| 2.        | Future Effective Date of Allowable Emissions:                           |                  |                    |        |
| 3.        | Requested Allowable Emissions and Units:                                |                  |                    |        |
| 4.        | Equivalent Allowable Emissions:   | lb/hour          | tons/year          | _      |
| 5.        | Method of Compliance (limit to 60 characters):                          |                  | ·                  |        |
| 1         | Pollutant Allowable Emissions Comment (Desc. 00 characters):            | of Related Opera | ating Method/Mode) | (limit |
| В.        |   |                  |                    |        |
| 1.        | Basis for Allowable Emissions Code:                                     |                  |                    |        |
| 2.        | Future Effective Date of Allowable Emissions:                           |                  |                    |        |
| 3.        | Requested Allowable Emissions and Units:                                |                  |                    |        |
| 4.        | Equivalent Allowable Emissions:   | lb/hr            | tons/year          |        |
| 5.        | Method of Compliance (limit to 60 characters):                          |                  |                    |        |
|           | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related Oper  | ating Method/Mode) |        |

DEP Form No. 62-210.900(1) - Form

| Emissions        | Unit | Inform      | nation Sectio  | n 3 | οf | 9 |  |
|------------------|------|-------------|----------------|-----|----|---|--|
| 7,111,122,10,112 |      | 11111/11/11 | 144UU11 DECLIO |     | O. |   |  |

#### Pollutant Detail Information: 5 of 7

| 1. | Pollutant Emitted: VOC   |
|----|--|
| 2. | Total Percent Efficiency of Control: %   |
| 3. | Potential Emissions: 2 lb/hour 7 tons/year   |
| 4. | Synthetically Limited? [ ] Yes [X] No  |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1  |
| 6. | Emission Factor: 0.76 lbs VOC / 1000 gal Oil Reference: EPA AP-42 Table 1.3-4  |
| 7. | Emissions Method Code: [ ] 0 [ ] 1 [ ] 2 [X] 3 [ ] 4 [ ] 5   |
| 8. | Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Oil Firing 0.76 lbs VOC/1000 gal Oil x 19432.71 1000 gal Oil/yr |
|    | 2000 lbs/ton   |
|    |  |
| 9. | Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):   |
|    | tential Emissions based on maximum firing rate, 8760 hours/year and the minimum heating ue of oil from 1992-1995.                                |
|    |  |

DEP Form No. 62-210.900(1) - Form

| All | lowable Emissions (Pollutant identified on front                        | of page)       |                            |
|-----|---|----------------|----------------------------|
| A.  |   |                |                            |
| _   | Basis for Allowable Emissions Code:                                     |                |                            |
| 2.  | Future Effective Date of Allowable Emissions:                           |                |                            |
| 3.  | Requested Allowable Emissions and Units:                                |                |                            |
| 4.  | Equivalent Allowable Emissions:   | lb/hour        | tons/year                  |
| 5.  | Method of Compliance (limit to 60 characters):                          |                |                            |
|     | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related Ope | rating Method/Mode) (limit |
|     |   |                | •                          |
|     |   |                |                            |
|     |   |                |                            |
| В.  |   |                | -                          |
| 1.  | Basis for Allowable Emissions Code:                                     |                |                            |
| 2.  | Future Effective Date of Allowable Emissions:                           |                |                            |
| 3.  | Requested Allowable Emissions and Units:                                |                |                            |
| 4.  | Equivalent Allowable Emissions:   | lb/hr          | tons/year                  |
| 5.  | Method of Compliance (limit to 60 characters):                          |                |                            |
| 6.  | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related Ope | rating Method/Mode)        |
|     |   |                |                            |
|     |   |                |                            |

Emissions Unit Information Section \_\_\_3\_\_ of \_\_\_9\_\_

DEP Form No. 62-210.900(1) - Form

#### Pollutant Detail Information: 6 of 7

| 1. | Pollutant Emitted: PM10  |
|----|--|
| 2. | Total Percent Efficiency of Control: %   |
| 3. | Potential Emissions: 38 lb/hour 165 tons/year  |
| 4. | Synthetically Limited? [ ] Yes [X] No  |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1  |
| 6. | Emission Factor: {(9.19 x%S) + 3.22 lbs PM10/1000 gal Oil} x Particle Size Mult (0.71)<br>Reference: EPA AP-42 Table 1.3-5   |
| 7. | Emissions Method Code: [ ] 0 [ ] 1 [ ] 2 [X] 3 [ ] 4 [ ] 5   |
| 8. | Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Oil Firing [{(9.19 x 2.25%S) + 3.22 lbs PM10/1000 gal Oil} x 19432.71 1000 gal Oil/yr] x 0.71               |
| _  | 2000 lbs/ton   |
|    |  |
|    |  |
|    |  |
| Po | Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): tential Emissions based on maximum firing rate, 8760 hours/year and the minimum heating ue of oil from 1992-1995. |
| -  |  |

DEP Form No. 62-210.900(1) - Form

| Em  | nissions Unit Information Section3 of _                                 | 9                    |                     |
|-----|---|----------------------|---------------------|
| All | owable Emissions (Pollutant identified on front                         | of page)             |                     |
| A.  |   |                      |                     |
| 1.  | Basis for Allowable Emissions Code:                                     |                      |                     |
| 2.  | Future Effective Date of Allowable Emissions:                           |                      |                     |
| 3.  | Requested Allowable Emissions and Units:                                |                      |                     |
| 4.  | Equivalent Allowable Emissions:   | lb/hour              | tons/year           |
| 5.  | Method of Compliance (limit to 60 characters):                          |                      | _                   |
|     | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related Operating | Method/Mode) (limit |
|     |   | _                    |                     |
| В.  |   |                      |                     |
| 1.  | Basis for Allowable Emissions Code:                                     |                      |                     |
| 2.  | Future Effective Date of Allowable Emissions:                           |                      |                     |
| 3.  | Requested Allowable Emissions and Units:                                |                      |                     |
| 4.  | Equivalent Allowable Emissions:   | lb/hr                | tons/year           |
| 5.  | Method of Compliance (limit to 60 characters):                          |                      | -                   |
| 6.  | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related Operating | Method/Mode)        |

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| Emissions Unit Information Section 3 | 10 | 9 |
|--------------------------------------|----|---|
|--------------------------------------|----|---|

#### Pollutant Detail Information: 7 of 7

| 1. | Pollutant Emitted: HAPs   |                     |
|----|---|---------------------|
| 2. | Total Percent Efficiency of Control:  | %                   |
| 3. | Potential Emissions: 0.6 lb/hour 2.79   | tons/year           |
| 4. | Synthetically Limited? [ ] Yes [X] No   |                     |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1   | tons/year           |
| 6. | Emission Factor:  Reference: See Attachment M for HAPs Emissions Calculations   |                     |
| 7. | Emissions Method Code: [ ] 0  | [ ] 5               |
| 8. | Calculation of Emissions (limit to 600 characters): Potential Emissions   | Bases on Oil Firing |
| a  | See Attachment M for HAPs Emissions Calculations  Pollutant Potential/Estimated Emissions Comment (limit to 200 charact | arc):               |
| 9. | Pollutant Potential/Estimated Emissions Comment (limit to 200 charact   | ers):               |
|    | APs: Formaldehyde (>1 tpy), Nickel (>1 tpy), Hexane, Antimony, Arseni dmium, Chromium, Cobalt, Manganese, & Selenium.   | c, Beryllium,       |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 3 | 10 | 9 |  |
|--------------------------------------|----|---|--|
|--------------------------------------|----|---|--|

### Allowable Emissions (Pollutant identified on front of page)

| 1.        | Basis for Allowable Emissions Code:                                     |                      |                |        |
|-----------|---|----------------------|----------------|--------|
| 2.        | Future Effective Date of Allowable Emissions:                           |                      |                |        |
| 3.        | Requested Allowable Emissions and Units:                                |                      |                | _      |
| 4.        | Equivalent Allowable Emissions:   | lb/hour              | tons/year      |        |
| 5.        | Method of Compliance (limit to 60 characters):                          |                      |                |        |
|           | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related Operatin  | g Method/Mode) | (limit |
| <b>B.</b> | Basis for Allowable Emissions Code:                                     |                      |                |        |
| 1.        | Dasis for Allowable Lillissions Code.                                   |                      |                |        |
| 2.        | Future Effective Date of Allowable Emissions:                           |                      |                |        |
| 3.        | Requested Allowable Emissions and Units:                                | _                    |                |        |
| 4.        | Equivalent Allowable Emissions:   | lb/hr                | tons/year      | · · ·  |
| 5.        | Method of Compliance (limit to 60 characters):                          |                      |                |        |
| 6.        | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related Operating | g Method/Mode) |        |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 3 | of | 9 |
|--------------------------------------|----|---|
|--------------------------------------|----|---|

### I. VISIBLE EMISSIONS INFORMATION (Regulated Emissions Units Only)

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation \_\_\_1\_\_ of \_\_\_2\_\_

| 1.   | Visible Emissions Subtype: VE  |   |                |         |               |
|--|--|---|----------------|---------|---------------|
| 2.   | Basis for Allowable Opacity:   | [X ] Rule   | [              | ] Other |               |
| ] :  | Requested Allowable Opacity: Normal Conditions: 20 % Maximum Period of Excess Opacity Alle                                       | Exceptional Conditionwed: 2                             | ons:           | 40      | %<br>min/hour |
| Con  | Method of Compliance: appliance Test Method 9 conducted annucess input which are expected to result in decapacity of the source. | -   |                | -       |               |
| 5.   | Visible Emissions Comment (limit to 20   | O characters):  |                |         |               |
| 62-2   | 296.405(1)(a)  |   |                |         |               |
|  |  |   |                |         |               |
|  |  |   |                |         |               |
| <u>Visi</u>                                  | ble Emissions Limitation: Visible Em   | issions Limitation                                      | 2              | of2_    | <del></del>   |
| 1.   | Visible Emissions Subtype: VES   |   |                |         |               |
| 1.   |  | [x] Rule  |                | of2     |               |
| 1. 2. 1<br>3. 1                              | Visible Emissions Subtype: VES   | [x ] Rule  Exceptional Condition                        | [<br>ons:      |         | %<br>min/hour |
| 1. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. | Visible Emissions Subtype: VES Basis for Allowable Opacity: Requested Allowable Opacity: Normal Conditions: 60 %                 | [x ] Rule  Exceptional Condition  owed: 4-6 min/3 hours | [<br>ons:<br>s | ] Other | %             |

DEP Form No. 62-210.900(1) - Form

|  | <b>Emissions</b> | Unit | Information | Section | 3 | of | 9 |  |
|--|------------------|------|-------------|---------|---|----|---|--|
|--|------------------|------|-------------|---------|---|----|---|--|

#### J. CONTINUOUS MONITOR INFORMATION (Regulated Emissions Units Only)

| <u>C</u>       | ontinuous Monitoring System: Continu   | ious Monitorl of6           |
|----------------|--|-----------------------------|
| 1.             | Parameter Code: SO2  | 2. Pollutant(s):            |
| 3.             | CMS Requirement: [X] Rule  | [ ] Other                   |
| 4.             | Monitor Information: Manufacturer: TECO/Spectrum Syste Model Number: 43B Serial Number: 43B-48835-282  | ems                         |
| 5.             | Installation Date: 12/12/94  |                             |
| 6.             | Performance Specification Test Date:   | 12/20/94                    |
|                |  |                             |
| <u>C</u>       | ntinuous Monitoring System: Continu  | nous Monitor2 of6           |
|                |  |                             |
| 1. 3.          | Parameter Code: NOx  CMS Requirement: [X ] Rule  | 2. Pollutant(s):  [ ] Other |
| 1.             | Parameter Code: NOx  | 2. Pollutant(s):            |
| 1.<br>3.<br>4. | Parameter Code: NOx CMS Requirement:[X ] Rule  Monitor Information: Manufacturer: TECO/Spectrum Model Number: 42D Serial Number: 42D-48739-281 | 2. Pollutant(s):  [ ] Other |

**DEP Form No. 62-210.900(1) - Form** 101 Effective: 3-21-96

| <b>Emissions</b> | Unit | Information | Section | 3 | of | 9 |
|------------------|------|-------------|---------|---|----|---|
|                  |      |             |         |   |    |   |

### Continuous Monitoring System: Continuous Monitor \_ 3 \_ of \_ 6 \_ 1. Parameter Code: CO2 Pollutant(s): 3. CMS Requirement: [X] Rule ] Other 4. Monitor Information: Manufacturer: TECO/Spectrum Model Number: 42D Serial Number: 42D-48739-281 5. Installation Date: 12/12/94 6. Performance Specification Test Date: 12/20/94 7. Continuous Monitor Comment (limit to 200 characters): Rule 62-214 F.A.C. <u>Continuous Monitoring System:</u> Continuous Monitor 4 of 6 1. Parameter Code: Flow Pollutant(s): 3. CMS Requirement: [X ] Other ] Rule 4. Monitor Information: Manufacturer: United Sciences/ Spectrum Systems Model Number: Ultra Flow 100 Serial Number: 9401746 5. Installation Date: Scheduled 6. Performance Specification Test Date: 12/12/94 7. Continuous Monitor Comment (limit to 200 characters): RULE 62-214, F.A.C.

DEP Form No. 62-210.900(1) - Form

| <b>Emissions</b> | Unit | Information | Section | 3 | of | 9 |
|------------------|------|-------------|---------|---|----|---|
|                  |      |             |         |   |    |   |

### Continuous Monitoring System: Continuous Monitor \_ 5 \_ of \_ 6 \_

| Parameter Code: VE                     | 2. Pollutant(s):  |
|--|---|
| CMS Requirement: [X] Rule              | [ ] Other   |
| Monitor Information:                   | <del></del>   |
| Manufacturer: United Sciences/Spectr   | um Systems  |
| Model Number: 500C                     |   |
| Serial Number: 0394853                 |   |
| Installation Date: 12/12/94            |   |
| Performance Specification Test Date:   | 12/20/94  |
| Continuous Monitor Comment (limit to 2 | 200 characters): Rule 62-214 F.A.C.   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  | CMS Requirement: [X] Rule  Monitor Information:  Manufacturer: United Sciences/Spectr  Model Number: 500C |

### Continuous Monitoring System: Continuous Monitor \_\_6\_\_ of \_\_6\_\_

| Parameter Code: TEMP                        | 2. Pollutant(s):                     |
|---|--------------------------------------|
| 3. CMS Requirement:[X ] Rule                | [ ] Other                            |
| 4. Monitor Information:                     |                                      |
| Manufacturer: United Sciences/ Spectr       | um Systems                           |
| Model Number: Ultra Flow 100                |                                      |
| Serial Number: 9401746                      |                                      |
| 5. Installation Date: 12/12/94              |                                      |
| 6. Performance Specification Test Date: 1   | 2/20/94                              |
| 7. Continuous Monitor Comment (limit to     | 200 characters): RULE 62-214, F.A.C. |
| Temperature calculated using Ultrasonic Flo | ow Monitor                           |
|   |                                      |
|   |                                      |
|   |                                      |
|   |                                      |
|   |                                      |
|   |                                      |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 3 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

### K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

(Regulated and Unregulated Emissions Units)

#### **PSD Increment Consumption Determination**

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

- The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- [X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 3 | of | 9 |  |
|--------------------------------------|----|---|--|
|--------------------------------------|----|---|--|

| 2.   | Increment Consuming for Nitrogen Dioxide?   |  |  |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|--|--|
| If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that appliand skip remaining statements. |   |  |  |  |  |  |  |  |  |
|  | [ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.  |  |  |  |  |  |  |  |  |
|  | [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment. |  |  |  |  |  |  |  |  |
| [ ] The facility addressed in this application is classified as an EPA major source, and emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.  |   |  |  |  |  |  |  |  |  |
|  | [ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.   |  |  |  |  |  |  |  |  |
|  | [X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.  |  |  |  |  |  |  |  |  |
| 3.   | Increment Consuming/Expanding Code:   |  |  |  |  |  |  |  |  |
|  | PM [ ] C [ ] E [ ] Unknown  |  |  |  |  |  |  |  |  |
|  | SO2 [ ] C [ ] E [ ] Unknown   |  |  |  |  |  |  |  |  |
|  | NO2 [ ] C [ ] E [ ] Unknown   |  |  |  |  |  |  |  |  |
| 4.   | Baseline Emissions:   |  |  |  |  |  |  |  |  |
|  | PM lb/hour tons/year  |  |  |  |  |  |  |  |  |
|  | SO2 lb/hour tons/year NO2 tons/year   |  |  |  |  |  |  |  |  |
|  | ·   |  |  |  |  |  |  |  |  |
| ٥.   | PSD Comment (limit to 200 characters): Commission year is 1966  |  |  |  |  |  |  |  |  |

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| <b>Emissions Unit Information Section</b> | 3 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

#### L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

### Supplemental Requirements for All Applications

| 1. | Process Flow Diagram   |
|----|--|
|    | [x ] Attached, Document ID:_Att C [ ] Not Applicable [ ] Waiver Requested  |
| 2. | Fuel Analysis or Specification   |
|    | [x ] Attached, Document ID: Att. D [ ] Not Applicable [ ] Waiver Requested |
|    |  |
| 3. | Detailed Description of Control Equipment                                  |
|    | [ ] Attached, Document ID: [x ] Not Applicable [ ] Waiver Requested        |
|    |  |
| 4. | Description of Stack Sampling Facilities                                   |
|    | [x ] Attached, Document ID: Att. E [ ] Not Applicable [ ] Waiver Requested |
|    |  |
| 5. | Compliance Test Report   |
|    | [ ] Attached, Document ID:   |
|    |  |
|    | Previously submitted, Date:  |
|    |  |
|    | [x ] Not Applicable  |
|    |  |
| 6. | Procedures for Startup and Shutdown  |
|    | [ ] Attached, Document ID: [x ] Not Applicable                             |
|    | · · · · · · · · · · · · · · · · · · ·                                      |
| 7. | Operation and Maintenance Plan   |
|    | [ ] Attached, Document ID: [x ] Not Applicable                             |
|    |  |
| 8. | Supplemental Information for Construction Permit Application               |
|    | [ ] Attached, Document ID: [x. ] Not Applicable                            |
|    |  |
| 9. | Other Information Required by Rule or Statute                              |
|    | [ ] Attached, Document ID: [x ] Not Applicable                             |
|    |  |

DEP Form No. 62-210.900(1) - Form 106

| Emissions    | Unit  | Information  | Section | 3 | of | 9 |
|--------------|-------|--------------|---------|---|----|---|
| Lilligatolia | CILLE | TIMEDITALITY | Section |   | U. | _ |

### Additional Supplemental Requirements for Category I Applications Only

| 10. Alternative Methods of Operation   |
|--|
| [ ] Attached, Document ID: [x ] Not Applicable   |
| 11. Alternative Modes of Operation (Emissions Trading)   |
| [x ] Attached, Document ID: Att. H [ ] Not Applicable  |
|  |
| 12. Identification of Additional Applicable Requirements                                       |
| [ ] Attached, Document ID: [ ] Not Applicable  |
| 13. Compliance Assurance Monitoring Plan   |
| [x ] Attached, Document ID:_Att. K_ [ ] Not Applicable   |
| 14. Acid Rain Application (Hard-copy Required)   |
| 5 1 4 1 1 B 1 B 1 B 1 W C 2 2 1 2 2 2 (1) (1) (1)  |
| [x] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: Attachment N_ |
| Attached, Document IDAttachment IV   |
| [ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)                                    |
| Attached, Document ID:   |
| [ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)   |
| Attached, Document ID:   |
|  |
| [ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)                                       |
| Attached, Document ID:   |
| [ ] Not Applicable   |
| [ ] Mot Applicable   |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Uni</b> | Information Se | ction 4 | of | 9 |  |
|----------------------|----------------|---------|----|---|--|
|----------------------|----------------|---------|----|---|--|

#### III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

### A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

| (Acgulated and Omegulated Emissions Omes)   |
|---|
| Type of Emissions Unit Addressed in This Section  |
| 1. Regulated or Unregulated Emissions Unit? Check one:  |
| [X ] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.   |
| [ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.   |
| 2. Single Process, Group of Processes, or Fugitive Only? Check one:   |
| [X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). |
| [ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.   |
| [ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.  |
|   |
|   |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 4 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

## B. GENERAL EMISSIONS UNIT INFORMATION (Regulated and Unregulated Emissions Units)

### **Emissions Unit Description and Status**

| 1. Description of Emissions U   | Init Addressed in This Section (lin | mit to 60 characters):  |
|---------------------------------|-------------------------------------|-------------------------|
| Fossil Fuel Steam Generatin     | g Unit 4 (S-4)                      |                         |
|                                 |                                     |                         |
|                                 |                                     |                         |
|                                 |                                     |                         |
|                                 | on Number:[ ]No Corresponding       | g ID [ ] Unknown        |
|                                 | 010                                 |                         |
| 3. Emissions Unit Status        | 4. Acid Rain Unit?                  | 5. Emissions Unit Major |
| Code: A                         | [x] Yes [] No                       | Group SIC Code: 49      |
|                                 |                                     |                         |
| 6. Emissions Unit Comment (     | limit to 500 characters):           |                         |
| Unit S-4 is in extended forced  |                                     |                         |
|                                 |                                     |                         |
|                                 |                                     |                         |
|                                 |                                     |                         |
|                                 |                                     |                         |
|                                 | -                                   |                         |
|                                 |                                     |                         |
| ,                               |                                     |                         |
|                                 |                                     |                         |
|                                 |                                     |                         |
|                                 |                                     |                         |
| Emissions Unit Control Equi     | pment                               |                         |
|                                 |                                     |                         |
| <b>A.</b>                       |                                     |                         |
| 1. Description (limit to 200 ch | naracters):                         |                         |
|                                 |                                     |                         |
|                                 |                                     |                         |
|                                 |                                     |                         |
|                                 |                                     |                         |
|                                 |                                     |                         |
|                                 |                                     |                         |
|                                 |                                     |                         |
| ·                               |                                     |                         |
|                                 |                                     |                         |
| 2. Control Device or Method     | Code:                               |                         |
| 2. Control Dovice of Method     |                                     |                         |

DEP Form No. 62-210.900(1) - Form

| В.         |  |
|------------|--|
| 1.         | Description (limit to 200 characters):                                 |
|            |  |
|            |  |
|            |  |
|            |  |
|            |  |
|            |  |
| 2.         | Control Device or Method Code:   |
|            | <del></del>  |
|            |  |
| <u>C</u> . |  |
|            | Description (limit to 200 characters):                                 |
|            | Description (limit to 200 characters):  Control Device or Method Code: |

Emissions Unit Information Section \_\_\_4\_\_ of \_\_\_9\_\_

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 4 | of | 9 |  |
|------------------------------------|---|----|---|--|
|------------------------------------|---|----|---|--|

## C. EMISSIONS UNIT DETAIL INFORMATION (Regulated Emissions Units Only)

### **Emissions Unit Details**

| Initial Startup Date: 1970           |  |   |   |
|--------------------------------------|--|---|---|
| Long-term Reserve Shutdown Date:     |  |   |   |
| Package Unit:                        |  |   |   |
| Manufacturer:                        |  |   |   |
| Model Number:                        |  |   |   |
| Generator Nameplate Rating: 33       | MW   |   |   |
|                                      |  |   |   |
| Incinerator Information:             | -  |   |   |
| Dwell Temperature:                   |  | °F  |   |
| Dwell Time:                          |  | seconds   |   |
| Incinerator Afterburner Temperature: |  | <u>°</u> F  |   |
|                                      | Long-term Reserve Shutdown Date: Package Unit: Manufacturer: Model Number: Generator Nameplate Rating: 33  Incinerator Information: Dwell Temperature: Dwell Time: | Long-term Reserve Shutdown Date:  Package Unit:  Manufacturer:  Model Number:  Generator Nameplate Rating: 33 MW  Incinerator Information:  Dwell Temperature:  Dwell Time: | Long-term Reserve Shutdown Date:  Package Unit:  Manufacturer:  Model Number:  Generator Nameplate Rating: 33  MW  Incinerator Information:  Dwell Temperature:  Dwell Time:  Seconds |

### **Emissions Unit Operating Capacity**

| 1. | Maximum Heat Input Rate: 419.1         |                  | mmBtu/hr |
|----|--|------------------|----------|
| 2. | Maximum Incineration Rate:             | lb/hr            | tons/day |
| 3. | Maximum Process or Throughput Rate:    |                  |          |
| 4. | Maximum Production Rate:               |                  |          |
| 5. | Operating Capacity Comment (limit to 2 | 200 characters): |          |
|    |  |                  |          |
|    |  |                  |          |
|    |  |                  |          |
|    |  |                  |          |
|    |  |                  |          |
|    |  |                  |          |
|    |  | •                |          |

#### **Emissions Unit Operating Schedule**

| Requested Maximum Operating | Schedule:  |           |            |
|-----------------------------|------------|-----------|------------|
|                             | hours/day  |           | days/week  |
|                             | weeks/year | 8760 Each | hours/year |
|                             |            |           |            |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions</b> | Unit  | <b>Information</b> | Section | 4 | of | 9 |  |
|------------------|-------|--------------------|---------|---|----|---|--|
| Timisoroms       | CHILL | 1111VI MAUVII      | Section | 7 | V. | _ |  |

# D. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

| <br><del></del> |  |  |  |
|-----------------|--|--|--|
|                 |  |  |  |
|                 |  |  |  |
|                 |  |  |  |
|                 |  |  |  |
|                 |  |  |  |
| ·               |  |  |  |
|                 |  |  |  |
|                 |  |  |  |
|                 |  |  |  |
|                 |  |  |  |
|                 |  |  |  |
|                 |  |  |  |
|                 |  |  |  |
|                 |  |  |  |
|                 |  |  |  |
|                 |  |  |  |
|                 |  |  |  |
|                 |  |  |  |
|                 |  |  |  |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 4 | of | 9 |
|--------------------------------------|----|---|
|--------------------------------------|----|---|

<u>List of Applicable Regulations</u> (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

| Federal: 40 CFR 72                     | Acid Rain Program   |
|--|---|
| 40 CFR 73                              | SO2 Allowance System  |
| 40 CFR 75                              | Continuous Emissions Monitoring   |
| State: 62-4, F.A.C.                    | Permitting Requirements   |
| 62-210, F.A.C.                         | Stationary Sources - General Requirements   |
| 62-210.700(3)                          | Visible Emissions Soot Blowing Opacity limit (60%)  |
| 62-213, F.A.C.                         | Title V Permitting Requirements   |
| 62-214, F.A.C.                         | Acid Rain Program   |
| 62-275.410, F.A.C.                     | Air Quality Areas - Ozone Nonattainment   |
| 62-296.405(1)(a), F.A.C.               | Stationary Sources - Visible Emissions Standards (Steam Generating Unit with Max Heat Input > 250 MMBTU/hr) |
| 62-296.405(1)(b)                       | 0.1 lbs PM/MMBTU particulate emission limit   |
| 62-296.570 (4)(b)(9)                   | NOx RACT Emission Limitations   |
| 62-297.410(9), F.A.C.                  | Stationary Sources - EPA Method 9 for Visible Emissions Testing   |
| 62-297.410(5), F.A.C.                  | EPA Test Method 5 for PM (stack temperature> 375 F)   |
| 62-297.410(17), F.A.C.                 | EPA Test Method 17 for PM (stack temperature< 375 F)  |
| Section 403.501 Florida Statutes (PPSA | Compliance with %S limit by sampling and  |
| Certification #PA 74-05 (I.1))         | analysis of as-fired fuel oil. Sample on used fuel. Analyse composite monthly                               |
| Section 403.501 Florida Statutes (PPSA | 2.25% S in Fuel Oil limit   |
| Certification #PA 74-05 (I.1))         |   |
| Title V Core List (3/25/96)            | Presumptively Applicable (Federal & State)  |
| Local: None                            |   |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 4 | of | 9 |  |
|------------------------------------|---|----|---|--|
|------------------------------------|---|----|---|--|

# E. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

#### **Emission Point Description and Type**

|    | Identification of Point on Plot Plan or Flow Diagram: 4 Fossil Fuel Steam Generating Unit #4     |               |
|----|--|---------------|
|    |  |               |
| 2. | Emission Point Type Code: [X ] 1 [ ] 2 [ ] 3 [ ] 4   |               |
|    | Descriptions of Emissions Points Comprising this Emissions Unit for V 100 characters per point): |               |
| 4. | ID Numbers or Descriptions of Emission Units with this Emission Poir                             | nt in Common: |
| 5. | Discharge Type Code:  [ ] D  |               |
| 6. | Stack Height: 115  | feet          |
| 7. | Exit Diameter: 7.5   | feet          |
| 8. | Exit Temperature: 293 (gas); 289 (oil)   | °F            |

DEP Form No. 62-210.900(1) - Form

### Emissions Unit Information Section \_\_\_4\_\_ of \_\_\_9\_\_

| 9. Actual Volumetric Flow Rate: 147839 (gas); 151100 (oil) |                                  | 100 (oil) acfm     |
|--|----------------------------------|--------------------|
| 10. Percent Water Vapor :                                  |                                  | %                  |
| 11. Maximum Dry St   | andard Flow Rate:                | dscfm              |
| 12. Nonstack Emissi  | on Point Height:                 | feet               |
| 13. Emission Point U                                       | TM Coordinates:                  |                    |
| Zone: 17   | East (km): 592.8                 | North (km): 2943.7 |
| 14. Emission Point Co                                      | omment (limit to 200 characters) | ):                 |
|  |                                  |                    |
|  |                                  |                    |
|  |                                  |                    |
|  |                                  |                    |
|  |                                  |                    |
|  |                                  |                    |
|  |                                  |                    |
|  |                                  |                    |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> 4 | 10 | y |
|---|----|---|
|---|----|---|

# F. SEGMENT (PROCESS/FUEL) INFORMATION (Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment \_1\_ of \_2\_

| <ol> <li>Segment Description (Process/Fuel Type and (limit to 500 characters):</li> </ol> | d Associated Operating Method/Mode) |
|---|-------------------------------------|
| Natural Gas Used in Boiler  |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
| 2. Source Classification Code (SCC):  |                                     |
| 10100601  |                                     |
| 3. SCC Units:   |                                     |
| MMCF 4. Maximum Hourly Rate: 0.41   | 5. Maximum Annual Rate: 3575        |
| 4. Maximum Hourry Rate. 0.41  | 5. Maximum Aimual Rate. 5575        |
| 6. Estimated Annual Activity Factor:  |                                     |
| 7. Maximum Percent Sulfur: 0  | 8. Maximum Percent Ash:             |
|   |                                     |
| 9. Million Btu per SCC Unit: 1027   |                                     |
| 10. Segment Comment (limit to 200 characters)   | ):                                  |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions</b> | Unit | Information | Section | 4 | of | 9 |
|------------------|------|-------------|---------|---|----|---|
|                  |      |             |         |   |    |   |

### Segment Description and Rate: Segment 2 of 2

| 1.  |  |      |                            |  |
|-----|--|------|----------------------------|--|
| Nu  | (limit to 500 characters):<br>Number 5 Fuel Oil Used in Boiler |      |                            |  |
|     |  |      |                            |  |
|     |  |      |                            |  |
|     |  |      |                            |  |
|     |  |      |                            |  |
|     |  |      |                            |  |
|     |  |      |                            |  |
|     |  |      |                            |  |
|     |  |      |                            |  |
| -   |  |      | -                          |  |
| 2.  | Source Classification Code (SCC): 1010040                      | 5    |                            |  |
| 3.  | SCC Units: 1000 gallons burned                                 |      |                            |  |
| 4.  | Maximum Hourly Rate: 2.86                                      | 5. N | Saximum Annual Rate: 25051 |  |
| 6.  | Estimated Annual Activity Factor:                              |      |                            |  |
| 7.  | Maximum Percent Sulfur: 2.25                                   | 8. M | faximum Percent Ash:       |  |
| 9.  | Million Btu per SCC Unit: 146.6                                |      |                            |  |
|     |  |      |                            |  |
| 10. | Segment Comment (limit to 200 characters)                      |      |                            |  |
|     |  |      |                            |  |
|     |  |      |                            |  |
|     |  |      |                            |  |
|     |  |      |                            |  |
|     |  |      |                            |  |
|     |  |      |                            |  |
|     |  |      |                            |  |

DEP Form No. 62-210.900(1) - Form

## G. EMISSIONS UNIT POLLUTANTS (Regulated and Unregulated Emissions Units)

| 1. Pollutant Emitted | 2. Primary Control | 3. Secondary Control | 4. Pollutant    |
|----------------------|--------------------|----------------------|-----------------|
|                      | Device Code        | Device Code          | Regulatory Code |
| $SO_2$               |                    |                      | EL              |
| NO <sub>X</sub>      |                    |                      | EL              |
| PM                   |                    |                      | EL              |
| СО                   |                    |                      | NS              |
| VOC                  |                    |                      | NS              |
| PM10                 |                    |                      | NS              |
| H095                 |                    |                      | NS              |
| H133                 |                    |                      | NS              |
| H104                 |                    |                      | NS              |
| H014                 |                    |                      | NS              |
| H015                 |                    |                      | NS              |
| H021                 |                    |                      | NS              |
| H027                 |                    |                      | NS              |
| H046                 |                    |                      | NS              |
| H047                 |                    |                      | NS              |
| H113                 |                    |                      | NS              |
| H162                 |                    |                      | NS              |
| Pb                   |                    |                      | NS              |
|                      |                    |                      |                 |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 4 | of | 9 |  |
|------------------------------------|---|----|---|--|
|------------------------------------|---|----|---|--|

## H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

#### Pollutant Detail Information: 1 of 7

| 1. | Pollutant Emitted: SO2   | _                  | <del>-</del>                       |
|----|--|--------------------|------------------------------------|
| 2. | Total Percent Efficiency of Control:   |                    | %                                  |
| 3. | Potential Emissions: 1010  | lb/hour 4425       | tons/year                          |
| 4. | Synthetically Limited? [ ] Yes [X ] No   |                    |                                    |
|    |  | ] 3                | totons/year                        |
| 6. | Emission Factor: 157 *%S lb SO2/1000 Reference: EPA AP-42 Table 1.3 Uncontrolled Fuel Oil Combustion | -2 Criteria Pollut | ant Emission Factors For           |
| 7. | Emissions Method Code: [ ] 0 [ ] 1 [ ] 2   | [X] 3              | []4 []5                            |
| 8. | Calculation of Emissions (limit to 600 cl  | haracters): Poten  | tial Emissions Based on Oil Firing |
|    | 157 lbs SO2/1000 gal Oil   | x 2.25%S x 250     | 51 1000 galOil/yr                  |
|    | 20   | 000 lbs/ton        |                                    |
|    |  |                    |                                    |
|    |  |                    |                                    |
|    |  |                    |                                    |
|    |  |                    |                                    |
| 9. | Pollutant Potential/Estimated Emissions  | Comment (limit     | to 200 characters):                |
|    | tential Emissions based on maximum hea<br>ating value of oil from 1992-1995.                         | t input rate, 8760 | ) hours/year and the minimum       |
|    |  |                    |                                    |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section4 of9   |
|---|
| Allowable Emissions (Pollutant identified on front of page)   |
| A.  1. Basis for Allowable Emissions Code: Other  |
| 1. Basis for Allowable Emissions Code. Other  |
| 2. Future Effective Date of Allowable Emissions:  |
| 3. Requested Allowable Emissions and Units: 2.475 lb SO2/MMBTU  |
| 4. Equivalent Allowable Emissions: 1037.3 lb/hour 4543.25 tons/year   |
| 5. Method of Compliance (limit to 60 characters): Monthly fuel analysis reports submitted quarterly. SO2 emissions will be calculated stoichiometrically. |
| 6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):Power Plant Citing Act Specific Condition I.1 |
|   |
| В.  |
| 1. Basis for Allowable Emissions Code:  |
| 2. Future Effective Date of Allowable Emissions:  |
| 3. Requested Allowable Emissions and Units:   |
| 4. Equivalent Allowable Emissions: lb/hr tons/year  |
| 5. Method of Compliance (limit to 60 characters):   |
| 6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):  |

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| Emissions Unit Information Section 4 | of | 9 |  |
|--------------------------------------|----|---|--|
|--------------------------------------|----|---|--|

## H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

#### Pollutant Detail Information: 2 of 7

| 1. | Pollutant Emitted: NOx   | _ |
|----|--|---|
| 2. | Total Percent Efficiency of Control: %   |   |
| 3. | Potential Emissions: 209.7 lb/hour 917.83 tons/year  |   |
| 4. | Synthetically Limited? [ ] Yes [X] No  |   |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1  |   |
|    | Emission Factor: 0.5 lb NOx / MMBTu  Reference: NOx RACT RULE e attachment L, Stack Test Data for similar Unit 3                 |   |
|    | Emissions Method Code: [ ] 0 [X] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5   |   |
| 8. | Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Oil Firing 0.5 lbs NOx/MMBTU x 3671216 MMBTU/yr |   |
|    | 2000 lbs/ton   |   |
|    |  |   |
| 9. | Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):   |   |
| Po | tential Emissions based on maximum heat input rate and 8760 hours/year.  |   |
|    |  |   |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 4 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

### Allowable Emissions (Pollutant identified on front of page)

| _A. |  |
|-----|--|
| 1.  | Basis for Allowable Emissions Code: RULE   |
| 2.  | Future Effective Date of Allowable Emissions: Upon Startup after repairs are complete                  |
| 3.  | Requested Allowable Emissions and Units: 0.5 lb NOx / MMBTU  |
| 4.  | Equivalent Allowable Emissions: 209.7 lb/hour 917.83 tons/year   |
|     | Method of Compliance (limit to 60 characters): CEMS upon startup after repairs are mplete.             |
| 1   | Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit 200 characters): |

#### R.

- 1. Basis for Allowable Emissions Code:
- 2. Future Effective Date of Allowable Emissions:
- 3. Requested Allowable Emissions and Units:
- 4. Equivalent Allowable Emissions:

lb/hr

tons/year

- 5. Method of Compliance (limit to 60 characters):
- 6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 4 | of | 9 |  |
|------------------------------------|---|----|---|--|
|------------------------------------|---|----|---|--|

#### H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

### Pollutant Detail Information: 3 of 7

| 1. | Pollutant Emitted: PM  |                               |           |  |  |
|----|--|-------------------------------|-----------|--|--|
| 2. | Total Percent Efficiency of Control:   |                               | %         |  |  |
| 3. | Potential Emissions: 68  | lb/hour 299                   | tons/year |  |  |
| 4. | Synthetically Limited? [ ] Yes [X] No  |                               |           |  |  |
| 5. | Range of Estimated Fugitive/Other Emiss  [ ] 1   |                               | tons/year |  |  |
| 6. | Emission Factor: (9.19 x %S + 3.22 lb PN Reference: EPA AP-42 Table 1.3-2  | 1/1000 gal Oil)               |           |  |  |
| 7. | Emissions Method Code: [ ] 0 [ ] 1 [ ] 2   | [X] 3 [ ] 4                   | [ ] 5     |  |  |
| 8. | Calculation of Emissions (limit to 600 cha<br>{(9.19 x2.25%S) + 3.22 lb PM/1   | •                             | •         |  |  |
|    | 200  | 00 lbs/ton                    |           |  |  |
|    |  |                               |           |  |  |
|    |  |                               |           |  |  |
|    |  |                               |           |  |  |
| 9. | Pollutant Potential/Estimated Emissions (  | Comment (limit to 200 charact | ters):    |  |  |
|    | Potential Emissions based on maximum heat input rate, 8760 hours/year and the minimum heating value of oil from 1992-1995. |                               |           |  |  |
|    |  |                               |           |  |  |

DEP Form No. 62-210.900(1) - Form 123

| Emi  | ssions Unit Information Section4 of  | 9                     |                        |  |  |  |  |
|------|--|-----------------------|------------------------|--|--|--|--|
| Allo | Allowable Emissions (Pollutant identified on front of page)                            |                       |                        |  |  |  |  |
| A.   |  |                       |                        |  |  |  |  |
| 1. ] | Basis for Allowable Emissions Code: RULE   |                       |                        |  |  |  |  |
| 2. ] | Future Effective Date of Allowable Emissions:  |                       |                        |  |  |  |  |
| 3. I | Requested Allowable Emissions and Units: 0.1 l   | b PM/MMBTU            |                        |  |  |  |  |
| 4. I | Equivalent Allowable Emissions: 41.9   | lb/hour 183.57        | tons/year              |  |  |  |  |
|      | Method of Compliance (limit to 60 characters): usive of startup, exceeds 400 hours/yr. | Test required only if | unit operation on oil, |  |  |  |  |
|      | Pollutant Allowable Emissions Comment (Desc. 00 characters): Rule: 62-296.405(1)(b)    | of Related Operating  | Method/Mode) (limit    |  |  |  |  |
|      |  |                       |                        |  |  |  |  |
|      |  |                       |                        |  |  |  |  |
|      |  |                       |                        |  |  |  |  |
| В.   |  |                       |                        |  |  |  |  |
| 1. I | Basis for Allowable Emissions Code:  |                       |                        |  |  |  |  |
| 2. I | Future Effective Date of Allowable Emissions:  |                       |                        |  |  |  |  |
| 3. I | Requested Allowable Emissions and Units:   |                       |                        |  |  |  |  |
| 4. I | Equivalent Allowable Emissions:  | lb/hr                 | tons/year              |  |  |  |  |
| 5. 1 | Method of Compliance (limit to 60 characters):   |                       |                        |  |  |  |  |
|      | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters):                | of Related Operating  | Method/Mode)           |  |  |  |  |
|      |  |                       |                        |  |  |  |  |
|      |  |                       |                        |  |  |  |  |

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| <b>Emissions Unit Information Section</b> | 4 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

## H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

#### Pollutant Detail Information: 4 of 7

| 1. | Pollutant Emitted: CO   |                      |
|----|---|----------------------|
| 2. | Total Percent Efficiency of Control:  | %                    |
| 3. | Potential Emissions: 16 lb/hour 72  | tons/year            |
| 4. | Synthetically Limited? [ ] Yes [X] No   |                      |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1   | tons/year            |
| 6. | Emission Factor: 40 lbs CO / MMCF gas Reference: EPA AP-42 Table 1.4-2  |                      |
|    | Emissions Method Code: [ ] 0  |                      |
| 8. | Calculation of Emissions (limit to 600 characters): Potential Emissions 40 lbs CO/MMCF gas x 3575 MMCF gas/yr | Bases on Oil Firing  |
|    | 2000 lbs/ton  |                      |
|    |   |                      |
|    |   |                      |
|    |   |                      |
| 9. | Pollutant Potential/Estimated Emissions Comment (limit to 200 charac  | ters):               |
|    | tential Emissions based on maximum heat input rate and minimum heating 92-1995.                               | ng value of gas from |

DEP Form No. 62-210.900(1) - Form

| <u>Al</u> | lowable Emissions (Pollutant identified on front                        | of page)   |                        |        |
|-----------|---|------------|------------------------|--------|
| <b>A.</b> |   |            |                        |        |
| 1.        | Basis for Allowable Emissions Code:                                     |            | -                      |        |
| 2.        | Future Effective Date of Allowable Emissions:                           | -          |                        |        |
| 3.        | Requested Allowable Emissions and Units:                                |            |                        |        |
| 4.        | Equivalent Allowable Emissions:   | lb/hour    | tons/year              |        |
| 5.        | Method of Compliance (limit to 60 characters):                          |            |                        |        |
|           | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related | Operating Method/Mode) | (limit |
|           |   |            |                        |        |
|           |   |            |                        |        |
| В.        |   |            |                        |        |
| 1.        | Basis for Allowable Emissions Code:                                     |            |                        |        |
| 2.        | Future Effective Date of Allowable Emissions:                           |            |                        |        |
| 3.        | Requested Allowable Emissions and Units:                                | _          | <u>-</u>               |        |
| 4.        | Equivalent Allowable Emissions:   | lb/hr      | tons/year              |        |
| 5.        | Method of Compliance (limit to 60 characters):                          |            |                        |        |
| 6.        | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related | Operating Method/Mode) |        |
|           |   |            |                        |        |
|           |   |            |                        |        |
|           |   |            |                        |        |

Emissions Unit Information Section \_\_\_4\_\_ of \_\_\_9\_\_

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| <b>Emissions Unit Information Section</b> | 4 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

### H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

#### Pollutant Detail Information: 5 of 7

| 1.  | Pollutant Emitted: VOC   |  |  |  |
|---|--|--|--|--|
| 2.  | Total Percent Efficiency of Control: %   |  |  |  |
| 3.  | Potential Emissions: 2 lb/hour 10 tons/year  |  |  |  |
| 4.  | Synthetically Limited? [ ] Yes [X] No  |  |  |  |
| 5.  | Range of Estimated Fugitive/Other Emissions:  [ ] 1  |  |  |  |
| 6.  | Emission Factor: 0.76 lbs VOC / 1000 gal Oil<br>Reference: EPA AP-42 Table 1.3-4   |  |  |  |
| 7.  | Emissions Method Code: [ ] 0   |  |  |  |
| 8.  | Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Oil Firing  0.76 lbs VOC/1000 gal Oil x 25051 1000 gal Oil/yr |  |  |  |
| 9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  Potential Emissions based on maximum heat input rate, 8760 hours/year and the minimum heating value of oil from 1992-1995. |  |  |  |  |
|   |  |  |  |  |

DEP Form No. 62-210.900(1) - Form

| 4   | Allowable Emissions (Pollutant identified on front of page)                       |                                       |                               |  |  |  |  |
|-----|---|---------------------------------------|-------------------------------|--|--|--|--|
|     | <b>4.</b>   |                                       |                               |  |  |  |  |
|     | Basis for Allowable Emissions Code:   |                                       |                               |  |  |  |  |
| 7   | 2. Future Effective Date of Allowable Emissions:                                  |                                       | -                             |  |  |  |  |
| -   | B. Requested Allowable Emissions and Units:                                       |                                       |                               |  |  |  |  |
| -   | Equivalent Allowable Emissions:   | lb/hour                               | tons/year                     |  |  |  |  |
| [   | Method of Compliance (limit to 60 characters):                                    |                                       |                               |  |  |  |  |
| - 1 | <ul><li>Pollutant Allowable Emissions Comment (Desc. o 200 characters):</li></ul> | of Related                            | Operating Method/Mode) (limit |  |  |  |  |
|     |   |                                       | •                             |  |  |  |  |
|     |   |                                       |                               |  |  |  |  |
|     |   |                                       |                               |  |  |  |  |
| _]  | 3.  |                                       |                               |  |  |  |  |
| ,   | Basis for Allowable Emissions Code:   |                                       |                               |  |  |  |  |
| 1   | 2. Future Effective Date of Allowable Emissions:                                  |                                       |                               |  |  |  |  |
|     | 3. Requested Allowable Emissions and Units:                                       |                                       |                               |  |  |  |  |
|     | Equivalent Allowable Emissions:   | lb/hr                                 | tons/year                     |  |  |  |  |
| -   | Method of Compliance (limit to 60 characters):                                    | · · · · · · · · · · · · · · · · · · · |                               |  |  |  |  |
| (   | 5. Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters):        | of Related                            | Operating Method/Mode)        |  |  |  |  |
|     |   |                                       |                               |  |  |  |  |
|     |   |                                       |                               |  |  |  |  |
|     |   |                                       |                               |  |  |  |  |

Emissions Unit Information Section \_\_\_4\_\_ of \_\_\_9\_\_

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 4 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

## H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

#### Pollutant Detail Information: 6 of 7

| 1. | Pollutant Emitted: PM10   |  |
|----|---|--|
| 2. | Total Percent Efficiency of Control: %  |  |
| 3. | Potential Emissions: 49 lb/hour 213 tons/year   |  |
| 4. | Synthetically Limited? [ ] Yes [X] No   |  |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1   |  |
| 6. | Emission Factor: {(9.19 x%S) + 3.22 lbs PM10/1000 gal Oil} x Particle Size Mult (0.71) Reference: EPA AP-42 Table 1.3-5   |  |
| 7. | Emissions Method Code: [ ] 0 [ ] 1 [ ] 2 [X] 3 [ ] 4 [ ] 5  |  |
| 8. | Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Oil Firing [{(9.19 x 2.25%S) + 3.22 lbs PM10/1000 gal Oil} x 25051 1000 gal Oil/yr] x 0.71 |  |
|    | 2000 lbs/ton  |  |
|    |   |  |
|    |   |  |
|    |   |  |
| 9. | Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  |  |
| 1  | ential Emissions based on maximum heat input rate, 8760 hours/year and the minimum ting value of oil from 1992-1995.  |  |
|    |   |  |

DEP Form No. 62-210.900(1) - Form

| <u>A</u> ] | lowable Emissions (Pollutant identified on front                        | of page)   |                               |
|------------|---|------------|-------------------------------|
| Α.         |   |            |                               |
| 1.         | Basis for Allowable Emissions Code:                                     |            | -                             |
| 2.         | Future Effective Date of Allowable Emissions:                           | _          | -                             |
| 3.         | Requested Allowable Emissions and Units:                                |            |                               |
| 4.         | Equivalent Allowable Emissions:   | lb/hour    | tons/year                     |
| 5.         | Method of Compliance (limit to 60 characters):                          |            | -                             |
|            | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related | Operating Method/Mode) (limit |
|            |   |            |                               |
|            |   |            |                               |
|            |   |            | <u> </u>                      |
| В.         |   |            |                               |
| 1.         | Basis for Allowable Emissions Code:                                     |            |                               |
| 2.         | Future Effective Date of Allowable Emissions:                           |            |                               |
| 3.         | Requested Allowable Emissions and Units:                                |            |                               |
| 4.         | Equivalent Allowable Emissions:   | lb/hr      | tons/year                     |
| 5.         | Method of Compliance (limit to 60 characters):                          |            |                               |
| 6.         | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related | Operating Method/Mode)        |
|            |   |            |                               |
|            |   |            |                               |
|            |   |            |                               |

Emissions Unit Information Section \_\_\_4\_\_ of \_\_\_9\_\_

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| Emissions Unit Information Section | 4 | of | 9 |  |
|------------------------------------|---|----|---|--|
|------------------------------------|---|----|---|--|

### H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

#### Pollutant Detail Information: 7 of 7

| 1. | Pollutant Emitted: HAPS  |  |  |  |  |  |
|----|--|--|--|--|--|--|
| 2. | Total Percent Efficiency of Control: %   |  |  |  |  |  |
| 3. | Potential Emissions: 0.8 lb/hour 3.59 tons/year  |  |  |  |  |  |
| 4. | Synthetically Limited? [ ] Yes [X] No  |  |  |  |  |  |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1  |  |  |  |  |  |
| 6. | Emission Factor: See Attachment M for HAPs Emissions Calculations Reference:   |  |  |  |  |  |
| 7. | Emissions Method Code: [ ] 0   |  |  |  |  |  |
| 8. | Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Oil Firing See Attachment M for HAPs Emissions Calculations |  |  |  |  |  |
| 9. | Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):   |  |  |  |  |  |
|    | HAPS: Formaldehyde (>1 tpy), Nickel (>1 tpy), Hexane, Antimony, Arsenic, Beryllium, Cadmium, Chromium, Cobalt, Manganese, & Selenium.        |  |  |  |  |  |

DEP Form No. 62-210.900(1) - Form

| <u>Al</u> | lowable Emissions (Pollutant identified on front                        | of page)   |                              |
|-----------|---|------------|------------------------------|
| A.        |   |            |                              |
| 1.        | Basis for Allowable Emissions Code:                                     |            |                              |
| 2.        | Future Effective Date of Allowable Emissions:                           |            |                              |
| 3.        | Requested Allowable Emissions and Units:                                |            |                              |
| 4.        | Equivalent Allowable Emissions:   | lb/hour    | tons/year                    |
| 5.        | Method of Compliance (limit to 60 characters):                          |            |                              |
|           | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related | Operating Method/Mode) (limi |
|           |   |            |                              |
|           |   |            |                              |
|           |   |            |                              |
| В.        |   |            |                              |
| 1.        | Basis for Allowable Emissions Code:                                     |            |                              |
| 2.        | Future Effective Date of Allowable Emissions:                           |            |                              |
| 3.        | Requested Allowable Emissions and Units:                                |            |                              |
| 4.        | Equivalent Allowable Emissions:   | lb/hr      | tons/year                    |
| 5.        | Method of Compliance (limit to 60 characters):                          |            |                              |
| 6.        | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related | Operating Method/Mode)       |
|           |   |            |                              |
|           |   |            |                              |
|           |   |            |                              |

Emissions Unit Information Section \_\_\_4\_\_ of \_\_\_9\_\_

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 4 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

## I. VISIBLE EMISSIONS INFORMATION (Regulated Emissions Units Only)

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation \_\_\_1\_\_ of \_\_\_2\_

| 1. Visible Emissions Subtype: VE        |                       |                   |                  |
|---|-----------------------|-------------------|------------------|
| 2. Basis for Allowable Opacity:         | [X ] Rule             | [ ] Oth           | er               |
|   |                       |                   |                  |
| 3. Requested Allowable Opacity:         |                       |                   |                  |
| Normal Conditions: 20 %                 | Exceptional Co        | onditions: 40     | %                |
| Maximum Period of Excess Opacity        | Allowed: 2            | •                 | min/hour         |
|   |                       |                   |                  |
| 4. Method of Compliance:                |                       |                   |                  |
| Compliance Test Method 9 conducted as   | nnually. Testing sho  | ould be conducted | using the fuel   |
| and/or process input which are expected | to result in the high | est emissions and | within ten (10%) |
| of the rated capacity of the source.    |                       |                   |                  |
|   |                       | <u>.</u>          |                  |
| 5. Visible Emissions Comment (limit to  | 200 characters):      |                   |                  |
|   |                       |                   |                  |
| 62-296.405(1)(a)                        |                       |                   |                  |
|   |                       |                   |                  |
|   |                       |                   |                  |
|   |                       |                   | *                |
|   |                       |                   |                  |
| Visible Emissions Limitation: Visible   | Emissions Limitatio   | on2 of            | 2                |
| 1. Visible Emissions Subtype: VES       |                       |                   |                  |
| 2. Basis for Allowable Opacity:         | [x ] Rule             | [ ] Oth           | <br>er           |
| 1                                       |                       |                   |                  |
| 3. Requested Allowable Opacity:         |                       |                   |                  |
| Normal Conditions: 60 %                 | Exceptional Co        | onditions:        | %                |
| Maximum Period of Excess Opacity        | •                     |                   | min/hour         |
| . ,                                     |                       |                   |                  |
| 4. Method of Compliance:                |                       |                   |                  |
| Compliance Test Method 9 conducted a    | nnually               |                   |                  |
| •                                       | •                     |                   |                  |
| 5. Visible Emissions Comment (limit to  | 200 characters):      |                   |                  |
| Rule: 62-210.700(3)                     | ·                     |                   |                  |
| . , ,                                   |                       |                   |                  |
|   |                       |                   |                  |
|   |                       |                   |                  |
| 1                                       |                       |                   |                  |
|   |                       |                   |                  |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Intollitation Section 4 of 7 | 9 | 4 0 | Section | it Information | s Unit | missions | $\mathbf{E}$ |
|---|---|-----|---------|----------------|--------|----------|--------------|
|---|---|-----|---------|----------------|--------|----------|--------------|

# J. CONTINUOUS MONITOR INFORMATION (Regulated Emissions Units Only)

| Continuous Monitoring System: Continu  | uous Monitor1 of1 |  |  |  |  |  |
|--|-------------------|--|--|--|--|--|
| 1. Parameter Code:   | 2. Pollutant(s):  |  |  |  |  |  |
| 3. CMS Requirement: [X] Rule   | [ ] Other         |  |  |  |  |  |
| 4. Monitor Information:  |                   |  |  |  |  |  |
| Manufacturer: Model Number:  |                   |  |  |  |  |  |
| Serial Number:   |                   |  |  |  |  |  |
| 5. Installation Date:  |                   |  |  |  |  |  |
| 6. Performance Specification Test Date:  |                   |  |  |  |  |  |
| 7. Continuous Monitor Comment (limit to 200 characters): Rule 62-214 F.A.C. Unit is an extended shutdown unit for which continuous monitoring system has not been installed. |                   |  |  |  |  |  |
| Continuous Monitoring System: Continu  | uous Monitor of   |  |  |  |  |  |
| 1. Parameter Code:   | 2. Pollutant(s):  |  |  |  |  |  |
| 3. CMS Requirement:[ ] Rule  | [ ] Other         |  |  |  |  |  |
| 4. Monitor Information:  |                   |  |  |  |  |  |
| Manufacturer:  |                   |  |  |  |  |  |
| Model Number: Serial Number:   |                   |  |  |  |  |  |
| 5. Installation Date:  |                   |  |  |  |  |  |
| 6. Performance Specification Test Date:  |                   |  |  |  |  |  |
| 7. Continuous Monitor Comment (limit to  | 200 characters):  |  |  |  |  |  |
|  |                   |  |  |  |  |  |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 4 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

### K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

(Regulated and Unregulated Emissions Units)

#### **PSD Increment Consumption Determination**

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

- [ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- [X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

DEP Form No. 62-210.900(1) - Form

| En | ssions Unit Information Section4 of9  |   |
|----|---|---|
| 2. | ncrement Consuming for Nitrogen Dioxide?  |   |
|    | f the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.  |   |
|    | ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.  |   |
|    | ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment. |   |
|    | ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.   |   |
|    | ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.   | , |
|    | X ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.   |   |
| 3. | ncrement Consuming/Expanding Code: PM [ ] C [ ] E [ ] Unknown   |   |

| 3. | Increment Co | onsuming/Expandin     | g Code:           |             |  |
|----|--------------|-----------------------|-------------------|-------------|--|
|    | PM           | [ ] C                 | [ ] E             | [ ] Unknown |  |
|    | SO2          | [ ] C                 | [ ]E              | [ ] Unknown |  |
|    | NO2          | [ ] C                 | [ ] E             | [ ] Unknown |  |
| 4. | Baseline Emi | ssions:               |                   |             |  |
|    | PM           |                       | lb/hour           | tons/year   |  |
|    | SO2          |                       | lb/hour           | tons/year   |  |
| I  |              |                       |                   | . ,         |  |
|    | NO2          |                       |                   | tons/year   |  |
| 5. |              | ent (limit to 200 cha | racters): Commiss | <u> </u>    |  |
| 5. |              | ent (limit to 200 cha | racters): Commiss | <u> </u>    |  |
| 5. |              | ent (limit to 200 cha | racters): Commiss | <u> </u>    |  |
| 5. |              | ent (limit to 200 cha | racters): Commiss | <u> </u>    |  |
| 5. |              | ent (limit to 200 cha | racters): Commiss | <u> </u>    |  |

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| Emissions Unit Information Section 4 | OI | 9 |
|--------------------------------------|----|---|
|--------------------------------------|----|---|

#### L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

#### Supplemental Requirements for All Applications

| 1. | Process Flow Diagram  |
|----|---|
|    | [x ] Attached, Document ID:_Att C [ ] Not Applicable [ ] Waiver Requested   |
| 2. | Fuel Analysis or Specification  |
|    | [x ] Attached, Document ID:_Att. D_ [ ] Not Applicable [ ] Waiver Requested |
| 3. | Detailed Description of Control Equipment                                   |
|    | [ ] Attached, Document ID: [x ] Not Applicable [ ] Waiver Requested         |
| 4. | Description of Stack Sampling Facilities                                    |
|    | [x ] Attached, Document ID:_Att. E [ ] Not Applicable [ ] Waiver Requested  |
| 5. | Compliance Test Report  |
|    | [ ] Attached, Document ID:  |
|    |   |
|    | Previously submitted, Date:   |
|    | [x ] Not Applicable   |
| 6. | Procedures for Startup and Shutdown   |
|    | [ ] Attached, Document ID: [x ] Not Applicable                              |
|    |   |
| 7. | Operation and Maintenance Plan  |
|    | [ ] Attached, Document ID: [x ] Not Applicable                              |
|    |   |
| 8. | Supplemental Information for Construction Permit Application                |
|    | [ ] Attached, Document ID: [x ] Not Applicable                              |
| 9. | Other Information Required by Rule or Statute                               |
|    | [ ] Attached, Document ID: [x ] Not Applicable                              |
|    |   |

DEP Form No. 62-210.900(1) - Form 137

| <b>Emissions Unit Information Section</b> 4 | of | 9 |  |
|---|----|---|--|
|---|----|---|--|

## Additional Supplemental Requirements for Category I Applications Only

| 10. Alternative Methods of Operation   |
|--|
| [ ] Attached, Document ID: [x ] Not Applicable                                     |
| 11. Alternative Modes of Operation (Emissions Trading)                             |
| [x ] Attached, Document ID: Att. H [ ] Not Applicable                              |
| 12. Identification of Additional Applicable Requirements                           |
| [ ] Attached, Document ID: [ ] Not Applicable                                      |
| 13. Compliance Assurance Monitoring Plan   |
| [x ] Attached, Document ID:_Att. K_ [ ] Not Applicable                             |
| 14. Acid Rain Application (Hard-copy Required)                                     |
| [ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))                          |
| Attached, Document ID: (Unit is temporarily shutdown; form to follow               |
| after restart of unit)   |
| [ ] Benevicting Eutensier Blen (Form No. 62.210.000(1)(a)1.)                       |
| [ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: |
| , <u></u>  |
| [ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)                               |
| Attached, Document ID:   |
| [ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)                           |
| Attached, Document ID:   |
| [X ] Not Applicable  |
|  |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 5 | of | 9 |  |
|------------------------------------|---|----|---|--|
|------------------------------------|---|----|---|--|

#### III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

# A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

| Type of Emissions Unit Addressed in This Section  |
|---|
| 1. Regulated or Unregulated Emissions Unit? Check one:  |
| [X ] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.   |
| [ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.   |
| 2. Single Process, Group of Processes, or Fugitive Only? Check one:   |
| [X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). |
| [ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.   |
| [ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.  |

**DEP** Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 5 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

# B. GENERAL EMISSIONS UNIT INFORMATION (Regulated and Unregulated Emissions Units)

## **Emissions Unit Description and Status**

| 1. Description of Emissions Unit Addressed in This Section (limit to 60 characters):  Gas Turbine #1 (GT-1) |                                    |   |  |  |  |  |
|---|------------------------------------|---|--|--|--|--|
|   |                                    |   |  |  |  |  |
| 2. Emissions Unit Identification 006  | on Number:[ ]No Corresponding      | g ID [ ] Unknown                              |  |  |  |  |
| 3. Emissions Unit Status Code: A  | 4. Acid Rain Unit? [ ] Yes [x ] No | 5. Emissions Unit Major<br>Group SIC Code: 49 |  |  |  |  |
| 6. Emissions Unit Comment (   | limit to 500 characters):          |   |  |  |  |  |
|   |                                    |   |  |  |  |  |
|   |                                    |   |  |  |  |  |
|   |                                    |   |  |  |  |  |
|   |                                    |   |  |  |  |  |
|   |                                    |   |  |  |  |  |
| Emissions Unit Control Equi   | <u>pment</u>                       |   |  |  |  |  |
| A.  1. Description (limit to 200 cl   | naracters):                        |   |  |  |  |  |
|   |                                    |   |  |  |  |  |
|   |                                    |   |  |  |  |  |
|   |                                    |   |  |  |  |  |
|   |                                    |   |  |  |  |  |
| 2. Control Device or Method   | Code                               |   |  |  |  |  |
| 2. Control Device of Method   | Code.                              |   |  |  |  |  |

DEP Form No. 62-210.900(1) - Form

# 1. Description (limit to 200 characters): 2. Control Device or Method Code: 1. Description (limit to 200 characters): 2. Control Device or Method Code:

Emissions Unit Information Section \_\_\_5\_\_ of \_\_\_9\_\_

DEP Form No. 62-210.900(1) - Form 141

|           |        |            |         | : _ | _  | _ |  |
|-----------|--------|------------|---------|-----|----|---|--|
| Emissions | Unit I | nformation | Section | 5   | of | 9 |  |

#### C. EMISSIONS UNIT DETAIL INFORMATION (Regulated Emissions Units Only)

## **Emissions Unit Details**

|  | Initial Startup Date: 1976  |             |                      |
|--|---|-------------|----------------------|
| 2.   | Long-term Reserve Shutdown Date:  |             |                      |
| 3.   | Package Unit:   |             |                      |
|  | Manufacturer:   |             |                      |
|  | Model Number:   |             |                      |
| 4.   | Generator Nameplate Rating: 30  | MW          |                      |
| 5.   | Incinerator Information:  |             |                      |
|  | Dwell Temperature:  |             | °F                   |
|  | Dwell Time:   |             | seconds              |
|  | Incinerator Afterburner Temperature:  |             | °F                   |
| Er   | nissions Unit Operating Capacity  |             |                      |
|  |   | <del></del> |                      |
| 1.   | Maximum Heat Input Rate: 435  |             | mmBtu/hr             |
| 2.   | Maximum Heat Input Rate: 435  Maximum Incineration Rate:                                  | lb/hr       | mmBtu/hr<br>tons/day |
|  | Maximum Incineration Rate:  |             |                      |
| 3.   | Maximum Incineration Rate:  |             |                      |
| 3.   | Maximum Incineration Rate:  Maximum Process or Throughput Rate:                           |             |                      |
| <ul><li>2.</li><li>3.</li><li>4.</li></ul> | Maximum Incineration Rate:  Maximum Process or Throughput Rate:  Maximum Production Rate: |             |                      |

## **Emissions Unit Operating Schedule**

| Requested Maximum Operating Sch | iedule:    |           |            |
|---------------------------------|------------|-----------|------------|
|                                 | hours/day  |           | days/week  |
|                                 | weeks/year | 8760 Each | hours/year |

DEP Form No. 62-210.900(1) - Form 142

| Emissions Unit Information Section | 5 | of | 9 |  |
|------------------------------------|---|----|---|--|
|------------------------------------|---|----|---|--|

## D. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

| Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.) |  |   |   |  |  |  |
|--|--|---|---|--|--|--|
|  |  |   |   |  |  |  |
|  |  |   |   |  |  |  |
|  |  |   |   |  |  |  |
|  |  |   |   |  |  |  |
|  |  | · |   |  |  |  |
|  |  |   |   |  |  |  |
|  |  |   |   |  |  |  |
|  |  |   | · |  |  |  |
|  |  |   |   |  |  |  |
|  |  |   |   |  |  |  |
|  |  |   |   |  |  |  |
|  |  |   | , |  |  |  |
|  |  |   |   |  |  |  |

DEP Form No. 62-210.900(1) - Form 143 Effective: 3-21-96

|  | Emissions | Unit | Inform | ation | Section | 5 | of | 9 |  |
|--|-----------|------|--------|-------|---------|---|----|---|--|
|--|-----------|------|--------|-------|---------|---|----|---|--|

<u>List of Applicable Regulations</u> (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

| Federal: None               |  |
|-----------------------------|--|
| State: 62-4, F.A.C.         | Permitting Requirements  |
| 62-210, F.A.C.              | Stationary Sources - General Requirements                          |
| 62-213, F.A.C.              | Title V Permitting Requirements                                    |
| 62-275.410, F.A.C.          | Air Quality Areas - Ozone Nonattainment                            |
| 62-296.310(2), F.A.C.       | Stationary Sources - Visible Emissions                             |
| 62-296.570 (4)(b)(5)        | NOx RACT Emission Limitations                                      |
| 62-297.410(9), F.A.C.       | Stationary Sources - EPA Method 9 for<br>Visible Emissions Testing |
| Title V Core List (3/25/96) | Presumptively Applicable (Federal & State)                         |
| Local: None                 |  |
|                             |  |
|                             |  |
|                             |  |
|                             |  |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 5 | of | 9 |  |
|------------------------------------|---|----|---|--|
|------------------------------------|---|----|---|--|

# E. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

# **Emission Point Description and Type**

|    | Identification of Po<br>I-1 Gas Turbine #1 | oint on Plot | Plan or Fl  | ow Diag     | ram:          |             |                          |
|----|--|--------------|-------------|-------------|---------------|-------------|--------------------------|
|    |  |              |             |             |               |             |                          |
| 2. | Emission Point Typ                         | pe Code:     |             |             |               |             |                          |
|    | [X ] 1                                     | [ ] 2        | [           | ] 3         | [             | ] 4         |                          |
| 3. | Descriptions of Em                         | nissions Poi | nts Compi   | rising this | s Emissio     | ns Unit f   | or VE Tracking (limit to |
|    | 100 characters per                         | point):      |             |             |               |             |                          |
|    |  |              |             |             | •             |             |                          |
|    |  |              |             |             |               |             |                          |
|    |  |              |             |             |               |             |                          |
|    |  |              |             |             |               |             |                          |
|    |  |              |             |             |               |             |                          |
|    |  |              |             |             |               |             |                          |
|    |  |              |             |             |               |             |                          |
|    |  |              |             |             |               |             |                          |
|    |  |              |             |             |               |             |                          |
|    |  |              |             |             |               |             |                          |
| 1  | ID Numbers or De                           | sarintions o | f Emission  | n I Inita u | vith this I   | Emission    | Point in Common:         |
| ٦. | ID INITIOCIS OF DC                         | scriptions o | T LIIISSIOI | ii Oilits v | vitii tiiis 1 | 21111331011 | 1 omt in Common.         |
|    |  |              |             |             |               |             |                          |
|    |  |              |             |             |               |             |                          |
|    |  |              |             |             |               |             |                          |
|    |  |              |             |             |               |             |                          |
|    |  |              |             |             |               |             |                          |
| 5. | Discharge Type Co                          |              | -           |             | _             |             |                          |
|    | [ ] D                                      | [ ] F        | [           | ] H         | [             | ] P         |                          |
|    | [ ] R                                      | [X ] V       | L           | ] W         |               |             |                          |
| 6  | Stack Height: 46                           |              |             |             |               |             | feet                     |
| 0. | Stack Height. 40                           |              |             |             |               |             | 1001                     |
| 7. | Exit Diameter: 16                          |              |             |             |               |             | feet                     |
|    |  |              |             |             |               |             |                          |
| 8. | Exit Temperature:                          | 837          |             |             |               |             | °F                       |
|    |  |              |             |             |               |             |                          |

DEP Form No. 62-210.900(1) - Form

# Emissions Unit Information Section \_\_\_5\_\_ of \_\_\_9\_\_

| 9. Actual volumeti   | ric Flow Rate: 983593 | acfm               |
|----------------------|-----------------------|--------------------|
| 10. Percent Water V  | apor:                 | %                  |
| 11. Maximum Dry S    | tandard Flow Rate:    | dscfm              |
| 12. Nonstack Emiss   | sion Point Height:    | feet               |
| 13. Emission Point U |                       |                    |
| Zone: 17             | East (km): 592.8      | North (km): 2943.7 |
|                      |                       |                    |
|                      |                       |                    |
|                      |                       |                    |
|                      |                       |                    |
|                      |                       |                    |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions</b> | Unit | Information | Section | 5 | of | 9 |  |
|------------------|------|-------------|---------|---|----|---|--|
|                  |      |             |         |   |    |   |  |

# F. SEGMENT (PROCESS/FUEL) INFORMATION (Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment \_\_l\_\_ of \_\_l\_\_

|          | Segment Description (Process/Fuel Type and (limit to 500 characters): mbustion Turbine Using #2 Fuel Oil | d As | ssociated Operating Metho | od/Mode) |
|----------|--|------|---------------------------|----------|
|          |  |      |                           |          |
|          |  |      |                           |          |
|          |  |      |                           |          |
|          |  |      |                           |          |
|          |  |      |                           |          |
| 2.<br>20 | Source Classification Code (SCC):<br>100101  |      | -                         |          |
| 3.       | SCC Units: 1000 gallons  |      |                           |          |
| 4.       | Maximum Hourly Rate: 3.1   | 5.   | Maximum Annual Rate: 2    | 27230    |
| 6.       | Estimated Annual Activity Factor:  |      |                           |          |
| 7.       | Maximum Percent Sulfur: 0.23   | 8.   | Maximum Percent Ash:      | 0.0033   |
| 9.       | Million Btu per SCC Unit: 139.3  |      |                           |          |
| 10.      | Segment Comment (limit to 200 characters):   |      |                           |          |
|          |  |      |                           |          |
|          |  |      |                           |          |
|          |  |      |                           |          |
|          |  |      |                           |          |
|          | Deginent Comment (mar to 200 characters).  |      |                           |          |

DEP Form No. 62-210.900(1) - Form

# G. EMISSIONS UNIT POLLUTANTS (Regulated and Unregulated Emissions Units)

| 1. Pollutant Emitted | 2. Primary Control | 3. Secondary Control | 4. Pollutant    |
|----------------------|--------------------|----------------------|-----------------|
|                      | Device Code        | Device Code          | Regulatory Code |
| SO <sub>2</sub>      |                    |                      | NS              |
| Nox                  |                    |                      | EL_             |
| PM                   |                    |                      | NS_             |
| СО                   |                    |                      | NS              |
| VOC                  |                    |                      | NS              |
| PM10                 |                    |                      | NS              |
| H095                 |                    |                      | NS              |
| H133                 |                    | ·                    | NS              |
| H017                 |                    |                      | NS              |
| H014                 |                    |                      | NS              |
| H015                 |                    | ·                    | NS              |
| H027                 |                    |                      | NS              |
| H046                 |                    |                      | NS              |
| H113                 |                    |                      | NS              |
| H162                 |                    |                      | NS              |
| H148                 |                    |                      | NS              |
| Pb                   |                    |                      | NS              |
|                      |                    |                      |                 |
|                      |                    |                      |                 |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 5 | of | 9 |  |
|------------------------------------|---|----|---|--|
|------------------------------------|---|----|---|--|

# H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

## Pollutant Detail Information: 1 of 7

| 1.  | Pollutant Emitted: SO2  |                       |
|-----|---|-----------------------|
| 2.  | Total Percent Efficiency of Control:  | %                     |
| 3.  | Potential Emissions: 157 lb/hour 686  | tons/year             |
| 4.  | Synthetically Limited? [ ] Yes [X ] No  |                       |
| 5.  | Range of Estimated Fugitive/Other Emissions:  [ ] 1   | tons/year             |
| 6.  | Emission Factor: 7.2 *%S * 2 SO2/1000 gal Oil Reference: Stoicheometric Calculation per Raisa Neginsky of DI                        | EP                    |
| 7.  | Emissions Method Code: [ ] 0  | [ ] 5                 |
| 8.  | Calculation of Emissions (limit to 600 characters): Potential Emissions   | s Based on Oil Firing |
|     | 7.2 lbs Oil/gal Oil x 27229576 gal Oil/yr x 0.0035 S/lb Oil x 2 ll  | b SO2/ 1 lb S         |
|     | 2000 lbs/ton  |                       |
|     |   |                       |
|     |   |                       |
|     |   |                       |
|     |   |                       |
|     | Pellister Personal Indiana de Projecto de Company (limit de 2000 alterna  | -4                    |
| 9.  | Pollutant Potential/Estimated Emissions Comment (limit to 200 charac  | cters):               |
| l . | stential Emissions based on maximum heat input rate, 8760 hours/year, and the minimum heating value of oil reported from 1992-1995. | maximum sulfur        |
|     |   |                       |

**DEP** Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 5 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

# Allowable Emissions (Pollutant identified on front of page)

| Α. |   | ,                    |                     |
|----|---|----------------------|---------------------|
| 1. | Basis for Allowable Emissions Code:                                     |                      | ,                   |
| 2. | Future Effective Date of Allowable Emissions:                           |                      |                     |
| 3. | Requested Allowable Emissions and Units:                                |                      |                     |
| 4. | Equivalent Allowable Emissions:   | lb/hour              | tons/year           |
| 5. | Method of Compliance (limit to 60 characters):                          |                      |                     |
|    | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related Operating | Method/Mode) (limit |
| В. |   |                      |                     |
| 1. | Basis for Allowable Emissions Code:                                     |                      |                     |
| 2. | Future Effective Date of Allowable Emissions:                           |                      |                     |
| 3. | Requested Allowable Emissions and Units:                                |                      |                     |
| 4. | Equivalent Allowable Emissions:   | lb/hr                | tons/year           |
| 5. | Method of Compliance (limit to 60 characters):                          |                      |                     |
| 6. | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related Operating | Method/Mode)        |

DEP Form No. 62-210.900(1) - Form

| Aminorial Chiefinia mattan Section S | Emissions | Unit Information Section | 5 | of | 9 |  |
|--------------------------------------|-----------|--------------------------|---|----|---|--|
|--------------------------------------|-----------|--------------------------|---|----|---|--|

# H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

## Pollutant Detail Information: 2 of 7

| 1. | Pollutant Emitted: NOx   |
|----|--|
|    |  |
| 2. | Total Percent Efficiency of Control: %   |
|    |  |
| 3. | Potential Emissions: 390 lb/hour 1707 tons/year  |
|    |  |
| 4. | Synthetically Limited?   |
|    | [ ] Yes [X] No   |
| 5. | Range of Estimated Fugitive/Other Emissions:   |
|    | [ ] 1 [ ] 2 [ ] 3totons/year   |
| _  |  |
| 6. | Emission Factor: 0.9 lbs NOx / MMBTU  Reference: NOx RACT RULE   |
| Wi | ill be met as demonstrated by stack test @ Tom G. Smith Power Plant (7/93) See attachment  |
|    | Stack Test Data  |
|    | Emissions Method Code:   |
|    | []0 [X]1 []2 []3 []4 []5   |
|    |  |
| 8. | Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Oil Firing 0.9 lbs NOx/MMBTU Oil x 27230 1000 gallons/yr x 139.3 MMBTU Oil / 1000 gal |
|    |  |
|    | 2000 lbs/ton   |
|    |  |
|    |  |
|    |  |
|    |  |
|    | $\cdot$  |
|    |  |
|    |  |
| 9. | Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):   |
|    | , , , , , , , , , , , , , , , , , , ,  |
|    | etential Emissions based on maximum heat input rate, 8760 hours/year, and the minimum ating value of oil reported from 1992-1995.                                      |
|    |  |
|    |  |
|    |  |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 5 | of | 9 |
|---|---|----|---|
|---|---|----|---|

## Allowable Emissions (Pollutant identified on front of page)

| Α. | •  |           |           |                       |    |
|----|--|-----------|-----------|-----------------------|----|
| 1. | Basis for Allowable Emissions Code: RULE                         |           |           |                       |    |
| 2. | Future Effective Date of Allowable Emissions:                    |           | _         |                       |    |
| 3. | Requested Allowable Emissions and Units: 0.9 lb                  | NOx/N     | MBTU      |                       |    |
| 4. | Equivalent Allowable Emissions: 389.7                            | lb/hour   | 1706.89   | tons/year             |    |
| 5. | Method of Compliance (limit to 60 characters): E                 | EPA Tes   | t Method  | 7E Conducted annually |    |
|    | Pollutant Allowable Emissions Comment (Desc. of 200 characters): | of Relate | d Operati | ng Method/Mode) (lim  | it |
| В. | •  |           |           |                       |    |
| 1. | Basis for Allowable Emissions Code:                              |           |           |                       |    |
| 2. | Future Effective Date of Allowable Emissions:                    |           |           |                       |    |

5. Method of Compliance (limit to 60 characters):

3. Requested Allowable Emissions and Units:

4. Equivalent Allowable Emissions:

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):

lb/hr

tons/year

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 5 | ot | • 9 |  |
|--------------------------------------|----|-----|--|
|--------------------------------------|----|-----|--|

# H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

## Pollutant Detail Information: 3 of 7

| 1. Pollutant Emitted: PM  |   |                            |  |  |
|---|---|----------------------------|--|--|
| 2. Total Percent Efficiency of C  | ontrol:                                 | %                          |  |  |
| 3. Potential Emissions: 26  | lb/hour 116                             | tons/year                  |  |  |
| 4. Synthetically Limited? [ ] Yes [X] No  |   |                            |  |  |
| 5. Range of Estimated Fugitive/  [ ] 1 [ ] 2  | Other Emissions:  [ ] 3                 | totons/year                |  |  |
| 6. Emission Factor: 0.038+ 0.02<br>Reference: EPA AP-42   |   |                            |  |  |
| 7. Emissions Method Code: [ ] 0 [ ] 1   | [ ] 2 [X] 3                             | []4 []5                    |  |  |
| 8. Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Oil Firing (0.038+0.023) lb PM/MMBTU Oil x 27230 1000 gal Oil/yr x 139.3 MMBTU/1000 gal Oil |   |                            |  |  |
|   | 2000 lbs/ton                            |                            |  |  |
|   |   |                            |  |  |
|   |   |                            |  |  |
|   |   |                            |  |  |
| 9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):   |   |                            |  |  |
| Potential Emissions based on manheating value of oil reported from  | • · · · · · · · · · · · · · · · · · · · | ours/year, and the minimum |  |  |
|   |   |                            |  |  |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 5 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

# Allowable Emissions (Pollutant identified on front of page)

| _A. |   |              |                             |    |
|-----|---|--------------|-----------------------------|----|
| 1.  | Basis for Allowable Emissions Code:                                     |              |                             |    |
| 2.  | Future Effective Date of Allowable Emissions:                           |              |                             |    |
| 3.  | Requested Allowable Emissions and Units:                                |              |                             |    |
| 4.  | Equivalent Allowable Emissions:   | lb/hour      | tons/year                   | _  |
| 5.  | Method of Compliance (limit to 60 characters):                          |              |                             |    |
| 1   | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related ( | Operating Method/Mode) (lim | it |
| В.  |   |              |                             |    |
| 1.  | Basis for Allowable Emissions Code:                                     |              |                             |    |
| 2.  | Future Effective Date of Allowable Emissions:                           |              |                             |    |
| 3.  | Requested Allowable Emissions and Units:                                |              |                             |    |
| 4.  | Equivalent Allowable Emissions:   | lb/hr        | tons/year                   |    |
| 5.  | Method of Compliance (limit to 60 characters):                          |              |                             |    |
| 6.  | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related ( | Operating Method/Mode)      |    |

DEP Form No. 62-210.900(1) - Form

| Emissions | Unit | Information | Section | 5 | of | 9 |  |
|-----------|------|-------------|---------|---|----|---|--|
|           |      |             |         |   |    |   |  |

# H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

## Pollutant Detail Information: 4 of 7

| 1. | Pollutant Emitted: CO  |  |  |  |  |  |
|----|--|--|--|--|--|--|
| 2. | Total Percent Efficiency of Control: %   |  |  |  |  |  |
| 3. | Potential Emissions: 21 lb/hour 91 tons/year   |  |  |  |  |  |
| 4. | Synthetically Limited? [ ] Yes [X] No  |  |  |  |  |  |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1  |  |  |  |  |  |
| 6. | Emission Factor: 0.048 lbs CO / MMBTU Oil Reference: EPA AP-42 Table 3.1-1   |  |  |  |  |  |
| 7. | Emissions Method Code: [ ] 0   |  |  |  |  |  |
| 8. | 8. Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Oil Firing 0.048 lb CO/MMGBTU Oil x 27230 1000 gal Oil/yr x 139.3 MMBTU/1000 gal Oil  2000 lbs/ton |  |  |  |  |  |
|    |  |  |  |  |  |  |
|    |  |  |  |  |  |  |
| 9. | Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):   |  |  |  |  |  |
|    | tential Emissions based on maximum heat input rate, 8760 hours/year, and the minimum ating value of oil reported from 1992-1995.   |  |  |  |  |  |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions</b> | Unit | Information | Section | 5 | of | 9 |
|------------------|------|-------------|---------|---|----|---|
|                  |      |             |         |   |    |   |

# Allowable Emissions (Pollutant identified on front of page)

| Α. |   |              |                          |        |
|----|---|--------------|--------------------------|--------|
| 1. | Basis for Allowable Emissions Code:                                     |              |                          |        |
| 2. | Future Effective Date of Allowable Emissions:                           |              |                          |        |
| 3. | Requested Allowable Emissions and Units:                                | _            |                          | _      |
| 4. | Equivalent Allowable Emissions:   | lb/hour      | tons/year                |        |
| 5. | Method of Compliance (limit to 60 characters):                          |              | -                        |        |
|    | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related ( | Operating Method/Mode) ( | (limit |
| В. |   |              |                          |        |
| 1. | Basis for Allowable Emissions Code:                                     |              |                          |        |
| 2. | Future Effective Date of Allowable Emissions:                           |              |                          |        |
| 3. | Requested Allowable Emissions and Units:                                |              |                          |        |
| 4. | Equivalent Allowable Emissions:   | lb/hr        | tons/year                |        |
| 5. | Method of Compliance (limit to 60 characters):                          |              |                          |        |
| 6. | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related ( | Operating Method/Mode)   |        |

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| <b>Emissions Unit Information Section</b> | 5 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

# H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

## Pollutant Detail Information: 5 of 7

| 1. | Pollutant Emitted: VOC  |                |
|----|---|----------------|
| 2. | Total Percent Efficiency of Control:  | %              |
| 3. | Potential Emissions: 7 lb/hour 32   | tons/year      |
| 4. | Synthetically Limited? [ ] Yes [X] No   |                |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1   | tons/year      |
| 6. | Emission Factor: 0.017 lbs VOC / MMBTU Oil<br>Reference: EPA AP-42 Table 3.1-1  |                |
| 7. | Emissions Method Code: [ ] 0  | [ ] 5          |
| 8. | Calculation of Emissions (limit to 600 characters): Potential Emissions 0.017 lb VOC/MMBTU Oil x 27230 1000 gal Oil/yr x 139.3 MMBT | _              |
|    | 2000 lbs/ton  |                |
|    |   |                |
|    |   |                |
|    |   |                |
| 9. | Pollutant Potential/Estimated Emissions Comment (limit to 200 charac  | ters):         |
| l  | tential Emissions based on maximum heat input rate, 8760 hours/year, a ating value of oil reported from 1992-1995.                  | nd the minimum |
|    |   |                |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions</b> | Unit        | Information    | Section | 5 | of | 9 |  |
|------------------|-------------|----------------|---------|---|----|---|--|
|                  | $\sim$ 1111 | THILLIAMETICAL | Occuon  | _ | O. | _ |  |

# Allowable Emissions (Pollutant identified on front of page)

| <u>A.</u> |   |                  |                          |
|-----------|---|------------------|--------------------------|
| 1.        | Basis for Allowable Emissions Code:                                     |                  |                          |
| 2.        | Future Effective Date of Allowable Emissions:                           |                  |                          |
| 3.        | Requested Allowable Emissions and Units:                                |                  |                          |
| 4.        | Equivalent Allowable Emissions:   | lb/hour          | tons/year                |
| 5.        | Method of Compliance (limit to 60 characters):                          |                  |                          |
|           | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related Opera | ting Method/Mode) (limit |
| В.        |   |                  |                          |
| 1.        | Basis for Allowable Emissions Code:                                     |                  |                          |
| 2.        | Future Effective Date of Allowable Emissions:                           |                  |                          |
| 3.        | Requested Allowable Emissions and Units:                                |                  |                          |
| 4.        | Equivalent Allowable Emissions:   | lb/hr            | tons/year                |
| 5.        | Method of Compliance (limit to 60 characters):                          |                  |                          |
| 6.        | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related Opera | iting Method/Mode)       |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions U</b> | Jnit Inform | ation Section | 5 ( | of $9$ | ) |
|--------------------|-------------|---------------|-----|--------|---|
|                    |             |               |     |        |   |

# H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

#### Pollutant Detail Information: 6 of 7

| 1. | Pollutant Emitted: PM10  |                       |                     |                     |
|----|--|-----------------------|---------------------|---------------------|
| 2. | Total Percent Efficiency of Control:   |                       | -                   | %                   |
| 3. | Potential Emissions: 13  | lb/hour 5             | 66                  | tons/year           |
| 4. | Synthetically Limited? [ ] Yes [X] No  |                       |                     | ·                   |
| 5. | Range of Estimated Fugitive/Other Emi  | issions:              | to _                | tons/year           |
| 6. | Emission Factor: (0.038 + 0.023) * 0.48<br>Reference: EPA AP-42 Table 3.1-   |                       | MBTU Oil            |                     |
| 7. | Emissions Method Code: [ ] 0 [ ] 1 [ ] 2   | [X] 3                 | [ ] 4               | [ ] 5               |
|    | Calculation of Emissions (limit to 600 c<br>038 + 0.023) lb PM10/MMBTU Oil x 2   | 7230 1000 g<br>* 0.48 | al Oil/yr x 139.3 M | IMBTU/ 1000 gal Oil |
|    | 20   | 000 lbs/ton           |                     |                     |
|    |  |                       |                     |                     |
|    |  |                       |                     |                     |
|    |  |                       |                     |                     |
| Po | Pollutant Potential/Estimated Emissions tential Emissions based on maximum heating value of oil reported from 1992-199 | at input rate,        | •                   | •                   |
|    |  |                       |                     |                     |

DEP Form No. 62-210.900(1) - Form

| £1        | nissions Unit Information Section50i_                                   | 9                 |                         |
|-----------|---|-------------------|-------------------------|
| <u>A1</u> | lowable Emissions (Pollutant identified on front                        | of page)          |                         |
| A.        |   |                   |                         |
| 1.        | Basis for Allowable Emissions Code:                                     |                   |                         |
| 2.        | Future Effective Date of Allowable Emissions:                           |                   |                         |
| 3.        | Requested Allowable Emissions and Units:                                |                   | -                       |
| 4.        | Equivalent Allowable Emissions:   | lb/hour           | tons/year               |
| 5.        | Method of Compliance (limit to 60 characters):                          |                   |                         |
|           | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related Operat | ing Method/Mode) (limit |
| В.        |   |                   |                         |
| 1.        | Basis for Allowable Emissions Code:                                     |                   |                         |
| 2.        | Future Effective Date of Allowable Emissions:                           |                   |                         |
| 3.        | Requested Allowable Emissions and Units:                                |                   |                         |
| 4.        | Equivalent Allowable Emissions:   | lb/hr             | tons/year               |
| 5.        | Method of Compliance (limit to 60 characters):                          |                   |                         |
| 6.        | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related Operat | ing Method/Mode)        |

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| <b>Emissions</b> | <b>Unit Information Section</b> | 5 . | of | 9 |  |
|------------------|---------------------------------|-----|----|---|--|
|                  |                                 |     |    |   |  |

# H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

## Pollutant Detail Information: 7 of 7

| 1. | Pollutant Emitted: HAPS   |                                       |                            |
|----|---|---------------------------------------|----------------------------|
| 2. | Total Percent Efficiency of Control:  |                                       | %                          |
| 3. | Potential Emissions: 1.3  | lb/hour 5.76                          | tons/year                  |
| 4. | Synthetically Limited?  |                                       |                            |
|    | [ ] Yes [X] No  |                                       |                            |
| 5. | Range of Estimated Fugitive/Other Emis  | sions:                                |                            |
|    |   | ] 3                                   | totons/year                |
| 6. | Emission Factor: See Attachment M for Reference:                                  | HAPs Emissions                        | Calculations               |
| 7. | Emissions Method Code:  | · · · · · · · · · · · · · · · · · · · |                            |
|    |   | [ ] 3                                 | []4 []5                    |
|    | Calculation of Emissions (limit to 600 ch<br>See Attachment M for                 | HAPs Emissions                        | s Calculations             |
| 9. | Pollutant Potential/Estimated Emissions   | Comment (limit                        | to 200 characters):        |
|    | APS: Formaldehyde (>1 tpy), Nickel (>1 t<br>romium, Cobalt, Manganese, Selenium & |                                       | ntimony, Arsenic, Cadmium, |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section5 of                                    | 9                    |                       |
|---|----------------------|-----------------------|
| Allowable Emissions (Pollutant identified on front                        | of page)             |                       |
| A.  1. Basis for Allowable Emissions Code:                                |                      |                       |
|   |                      | _                     |
| 2. Future Effective Date of Allowable Emissions:                          |                      |                       |
| 3. Requested Allowable Emissions and Units:                               |                      | _                     |
| 4. Equivalent Allowable Emissions:  | lb/hour              | tons/year             |
| 5. Method of Compliance (limit to 60 characters):                         |                      |                       |
| 6. Pollutant Allowable Emissions Comment (Desc to 200 characters):        | of Related Operating | , Method/Mode) (limit |
| В.  |                      |                       |
| Basis for Allowable Emissions Code:                                       |                      |                       |
| 2. Future Effective Date of Allowable Emissions:                          |                      |                       |
| 3. Requested Allowable Emissions and Units:                               |                      |                       |
| 4. Equivalent Allowable Emissions:  | lb/hr                | tons/year             |
| 5. Method of Compliance (limit to 60 characters):                         |                      |                       |
| 6. Pollutant Allowable Emissions Comment (Desc (limit to 200 characters): | of Related Operating | g Method/Mode)        |

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| Emissions Unit Information Section | 5 | of | 9 |
|------------------------------------|---|----|---|
|------------------------------------|---|----|---|

## I. VISIBLE EMISSIONS INFORMATION (Regulated Emissions Units Only)

| Visible Emissions Limitation: | Visible Emissions Limitation | ] | l | of i | l |
|-------------------------------|------------------------------|---|---|------|---|
|                               |                              |   |   |      |   |

| 1.                | Visible Emissions Subtype: VE  |                        |      |         |               |
|-------------------|--|------------------------|------|---------|---------------|
| 2.                | Basis for Allowable Opacity:   | [X] Rule               | [    | ] Other |               |
| 3.                | Requested Allowable Opacity: Normal Conditions: 20 % Maximum Period of Excess Opacity Allo   | Exceptional Conditi    | ons: |         | %             |
| Co<br>pro<br>rate | Method of Compliance: mpliance Test Method 9 conducted annu ocess input which are expected to result in ed capacity of the source. | n the highest emission |      | _       |               |
| 5.                | Visible Emissions Comment (limit to 20)  | 0 characters):         |      |         |               |
| 62-               | -296.310(2)  |                        |      |         |               |
| <u>Vi</u>         | sible Emissions Limitation: Visible Em   | issions Limitation     |      | of      |               |
| 1.                | Visible Emissions Subtype:   |                        |      |         |               |
| 2.                | Basis for Allowable Opacity:   | [ ] Rule               | [    | ] Other |               |
| 3.                | Requested Allowable Opacity: Normal Conditions: % Maximum Period of Excess Opacity Allo  | Exceptional Conditi    | ons: |         | %<br>min/hour |
| 4.                | ) ( .1 . 1 . CO . 1'   |                        |      |         |               |
|                   | Method of Compliance:  |                        |      |         |               |

DEP Form No. 62-210.900(1) - Form 163

| <b>Emissions</b> | Unit | Informat | ion Section | 5 | of | 9 |
|------------------|------|----------|-------------|---|----|---|
|                  |      |          |             |   |    |   |

# J. CONTINUOUS MONITOR INFORMATION (Regulated Emissions Units Only)

<u>Continuous Monitoring System:</u> Continuous Monitor \_\_1 \_\_ of \_\_1

| 1.         | Parameter Code:  | 2. Pollutant(s): |
|------------|--|------------------|
| 3.         | CMS Requirement: [ ] Rule  | [ ] Other        |
| 4.         | Monitor Information: Manufacturer: Model Number: Serial Number:                    |                  |
| 5.         | Installation Date:   |                  |
| 6.         | Performance Specification Test Date:   |                  |
| 7.         | Continuous Monitor Comment (limit to   | 200 characters): |
| <u>C</u> c | ontinuous Monitoring System: Continu   | ous Monitor of   |
| 1.         | Parameter Code:  | 2. Pollutant(s): |
| 3.         | CMS Requirement:[ ] Rule   | [ ] Other        |
| 5.         | Monitor Information: Manufacturer: Model Number: Serial Number: Installation Date: |                  |
| 6.         | Performance Specification Test Date:   | <del> </del>     |
| 7.         | Continuous Monitor Comment (limit to   | 200 characters): |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions</b> | Unit | Information | Section | 5 | of | 9 |
|------------------|------|-------------|---------|---|----|---|
|                  |      |             |         |   |    |   |

# K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

(Regulated and Unregulated Emissions Units)

#### **PSD Increment Consumption Determination**

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

- The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- [X] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

DEP Form No. 62-210.900(1) - Form

| Emissions | Unit Info | ormation | Section | 5_ | of | 9_ |  |
|-----------|-----------|----------|---------|----|----|----|--|
|           |           |          |         |    | _  |    |  |

Increment Consuming for Nitrogen Dioxide?

| <br>more than Consuming for Two Sen Browner.                                      |  |
|---|--|
| If the emissions unit addressed in this section emits nitrogen oxides, answer the |  |

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

- [ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- [ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- [X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

| 3. | Increment Consu | ming/Expandir | ng Code: |             |  |
|----|-----------------|---------------|----------|-------------|--|
|    | PM              | [ ] C         | [ ]E     | [ ] Unknown |  |
|    | SO2             | [ ] C         | [ ]E     | [ ] Unknown |  |
|    | NO2             | [ ] C         | [ ]E     | [ ] Unknown |  |
|    | D 1: T : :      | -             |          | -           |  |

4. Baseline Emissions:

PM lb/hour tons/year SO2 lb/hour tons/year NO2

5. PSD Comment (limit to 200 characters): Commission year is 1976

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 5 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

# L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

## Supplemental Requirements for All Applications

| 1. | Process Flow Diagram  |
|----|---|
|    | [x ] Attached, Document ID:_Att C [ ] Not Applicable [ ] Waiver Requested   |
| 2. | Fuel Analysis or Specification  |
|    | [x ] Attached, Document ID:_Att. D_ [ ] Not Applicable [ ] Waiver Requested |
| 3. | Detailed Description of Control Equipment                                   |
|    | [ ] Attached, Document ID: [x ] Not Applicable [ ] Waiver Requested         |
| 4. | Description of Stack Sampling Facilities                                    |
|    | [x ] Attached, Document ID:_Att. E [ ] Not Applicable [ ] Waiver Requested  |
| 5. | Compliance Test Report  |
|    | [ ] Attached, Document ID:  |
|    |   |
|    | [ ] Previously submitted, Date:   |
|    | [x ] Not Applicable   |
| 6. | Procedures for Startup and Shutdown   |
|    | [ ] Attached, Document ID: [x ] Not Applicable                              |
|    |   |
| 7. | Operation and Maintenance Plan  |
|    | [ ] Attached, Document ID: [x ] Not Applicable                              |
|    |   |
| 8. | Supplemental Information for Construction Permit Application                |
|    | [ ] Attached, Document ID: [x ] Not Applicable                              |
|    |   |
| 9. | Other Information Required by Rule or Statute                               |
|    | [ ] Attached, Document ID: [x ] Not Applicable                              |
|    | _ <del></del> - · · · <del>- ·</del>  |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 5 | of | 9 |  |
|------------------------------------|---|----|---|--|
|------------------------------------|---|----|---|--|

## Additional Supplemental Requirements for Category I Applications Only

| 10. Alternative Methods of Operation                        |
|---|
| [ ] Attached, Document ID: [x ] Not Applicable              |
|   |
| 11. Alternative Modes of Operation (Emissions Trading)      |
| [ ] Attached, Document ID: [x ] Not Applicable              |
| 12. Identification of Additional Applicable Requirements    |
| [ ] Attached, Document ID: [ ] Not Applicable               |
| 13. Compliance Assurance Monitoring Plan                    |
| [ ] Attached, Document ID: [x ] Not Applicable              |
| 14. Acid Rain Application (Hard-copy Required)              |
| [ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))   |
| Attached, Document ID:                                      |
| [ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) |
| Attached, Document ID:                                      |
| [ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)        |
| Attached, Document ID:                                      |
| [ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)    |
| Attached, Document ID:                                      |
|   |
| [x ] Not Applicable   |
|   |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions</b> | Unit | Information | Section | 6 | of | 9 |  |
|------------------|------|-------------|---------|---|----|---|--|
|                  | ~    |             |         | • | •• | - |  |

#### III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

| A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)   |
|---|
| Type of Emissions Unit Addressed in This Section  |
| 1. Regulated or Unregulated Emissions Unit? Check one:  |
| [X ] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.   |
| [ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.   |
| 2. Single Process, Group of Processes, or Fugitive Only? Check one:   |
| [X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). |
| [ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.   |
| [ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.  |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 6 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

## **B. GENERAL EMISSIONS UNIT INFORMATION** (Regulated and Unregulated Emissions Units)

## **Emissions Unit Description and Status**

|    |                                  | nit Addressed in This Section (lin<br>Combustion Turbine #2/Steam |  |
|----|----------------------------------|---|--|
|    | er combined cycle out c          | ombustion Turbine #2/Steam  | Oilit #3 (G1-2/5-3)                        |
|    |                                  |   |  |
| 2. | Emissions Unit Identification    | on Number:[ ]No Corresponding<br>011                              | g ID [ ] Unknown                           |
| 3. | Emissions Unit Status<br>Code: A | 4. Acid Rain Unit? [ ] Yes [x ] No                                | 5. Emissions Unit Major Group SIC Code: 49 |
| 6. | Emissions Unit Comment (I        | imit to 500 characters):  |  |
|    |                                  |   |  |
|    |                                  |   |  |
|    |                                  |   |  |
|    |                                  |   |  |
|    |                                  |   |  |
| En | nissions Unit Control Equi       | <u>pment</u>  |  |
| Α. |                                  |   |  |
| 1. | Description (limit to 200 ch     | aracters):  |  |
|    |                                  |   |  |
|    |                                  | 1   |  |
|    |                                  |   |  |
|    |                                  |   |  |
|    |                                  |   |  |
| 2. | Control Device or Method         | Code:   |  |

DEP Form No. 62-210.900(1) - Form 170

| Emi  | issions Unit Information Section6 of9  |
|------|--|
|      |  |
| В.   |  |
| 1. 1 | Description (limit to 200 characters): |
|      | ·                                      |
| 2. ( | Control Device or Method Code:         |
| C.   |  |
| 1. 1 | Description (limit to 200 characters): |
| 2. ( | Control Device or Method Code:         |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 6 | of | 9 |  |
|--------------------------------------|----|---|--|
|--------------------------------------|----|---|--|

# C. EMISSIONS UNIT DETAIL INFORMATION (Regulated Emissions Units Only)

## **Emissions Unit Details**

| 1. | Initial Startup Date: 1978                            |          |
|----|---|----------|
| 2. | Long-term Reserve Shutdown Date:                      |          |
| 3. | Package Unit:   |          |
|    | Manufacturer:   |          |
|    | Model Number:   |          |
| 4. | Generator Nameplate Rating: 20 MW                     |          |
| 5. | Incinerator Information:                              |          |
|    | Dwell Temperature:                                    | °F       |
|    | Dwell Time:   | seconds  |
|    | Incinerator Afterburner Temperature:                  | °F       |
|    | nissions Unit Operating Capacity                      |          |
| 1. | Maximum Heat Input Rate: 317.6                        | mmBtu/hr |
| 2. | Maximum Incineration Rate: lb/hr                      | tons/day |
| 3. | Maximum Process or Throughput Rate:                   |          |
| 4. | Maximum Production Rate:                              |          |
| 5. | Operating Capacity Comment (limit to 200 characters): |          |
|    |   |          |
|    |   |          |
|    |   |          |
|    |   |          |
|    |   |          |
|    |   |          |
|    |   |          |

## **Emissions Unit Operating Schedule**

| Requested Maximum Operating Schedule: |           |            |
|---------------------------------------|-----------|------------|
| hours/day                             |           | days/week  |
| weeks/year                            | 8760 Each | hours/year |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 6 of 9 |  |
|---|--|
|---|--|

# D. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

| Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.) |
|--|
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

DEP Form No. 62-210.900(1) - Form

|  | Emissions | Unit | Informat | ion | Section | 6 | of | 9 |  |
|--|-----------|------|----------|-----|---------|---|----|---|--|
|--|-----------|------|----------|-----|---------|---|----|---|--|

<u>List of Applicable Regulations</u> (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

| Federal: None                    |  |
|----------------------------------|--|
| State: 62-4, F.A.C.              | Permitting Requirements                    |
| 62-210, F.A.C.                   | Stationary Sources - General Requirements  |
| 62-213, F.A.C.                   | Title V Permitting Requirements            |
| 62-275.410, F.A.C.               | Air Quality Areas - Ozone Nonattainment    |
| 62-296.570 (4)(b)(5)             | NOx RACT Emission Limitations              |
| Section 403.501 Florida Statutes | Power Plant Siting Act (PPSA)              |
| Title V Core List (3/25/96)      | Presumptively Applicable (Federal & State) |
| Local: None                      |  |
|                                  |  |
|                                  |  |
|                                  |  |
|                                  | ·  |

| Emissions Unit Information Section 6 of | of 9 | 6 of | Section | Unit Information | <b>Emissions</b> |
|---|------|------|---------|------------------|------------------|
|---|------|------|---------|------------------|------------------|

### E. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

### **Emission Point Description and Type**

| CC | Identification of Point on Plot Plan or Flow Diagram:     CC1 Combined Cycle Unit (GT-2/S-5) |                  |                 |                      |  |  |  |
|----|--|------------------|-----------------|----------------------|--|--|--|
| 2. | Emission Point Type Code: [X ] 1 [ ] 2 [   | ] 3              | [ ] 4           |                      |  |  |  |
| 3. | Descriptions of Emissions Points Compri<br>100 characters per point):                        | ising this Emiss | ions Unit for V | E Tracking (limit to |  |  |  |
| 4. | ID Numbers or Descriptions of Emission   | Units with this  | Emission Poin   | t in Common:         |  |  |  |
| 5. | Discharge Type Code:  [ ] D  | ] H<br>] W       | [ ] P           |                      |  |  |  |
| 6. | Stack Height: 75   |                  |                 | feet                 |  |  |  |
| 7. | Exit Diameter: 10  |                  |                 | feet                 |  |  |  |
| 8. | Exit Temperature: 404 (oil); 406 (gas)   |                  |                 | °F                   |  |  |  |
|    |  |                  |                 |                      |  |  |  |

DEP Form No. 62-210.900(1) - Form 175

Emissions Unit Information Section \_\_\_6\_\_ of \_\_\_9\_\_

| 9. Actual Volumetric  | Flow Rate: 412466 (oil); 4292   | 223 (gas) acfm     |
|---|---|--------------------|
| 10. Percent Water Var   | oor:  | %                  |
| 11. Maximum Dry Sta   | ndard Flow Rate:  | dscfm              |
| 12. Nonstack Emissio  | n Point Height:   | feet               |
| 13. Emission Point UT   | M Coordinates:  |                    |
| Zone: 17  | East (km): 592.8  | North (km): 2943.7 |
| Pollutant amount and stack Height = 49 feet Exit Dimensions = 12 Maximum Exit Tempe | feet 7 inches X 10 feet 6.5 inchrature = 1,020 °F Inmetric Flowrate = 733,562 [ga | nes                |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions</b> | Unit | Informatio | n Section | 6 | of | 9 |  |
|------------------|------|------------|-----------|---|----|---|--|
|------------------|------|------------|-----------|---|----|---|--|

### F. SEGMENT (PROCESS/FUEL) INFORMATION (Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment \_\_1\_\_ of \_\_2\_\_

| 1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): |                                |  |  |  |  |  |
|--|--------------------------------|--|--|--|--|--|
| CC1 Combined Cycle Unit (GT-2/S-5) Using #   | 2 Fuel Oil                     |  |  |  |  |  |
| ,  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
| •  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
| 2. Source Classification Code (SCC):   |                                |  |  |  |  |  |
| 20100101   |                                |  |  |  |  |  |
| 3. SCC Units: 1000 gallons   | 3 SCC Units: 1000 gallons      |  |  |  |  |  |
|  |                                |  |  |  |  |  |
| 4. Maximum Hourly Rate: 2.28   | 5. Maximum Annual Rate: 19973  |  |  |  |  |  |
| 1. Waximum Hourry Rate. 2.20   | 3. Waximam / Amaai Rate. 19973 |  |  |  |  |  |
| 6 Tational Associated Post on  |                                |  |  |  |  |  |
| 6. Estimated Annual Activity Factor:   |                                |  |  |  |  |  |
|  | Т                              |  |  |  |  |  |
| 7. Maximum Percent Sulfur: 0.35  | 8. Maximum Percent Ash:        |  |  |  |  |  |
|  |                                |  |  |  |  |  |
| 9. Million Btu per SCC Unit: 139.3   | -                              |  |  |  |  |  |
| por 00 0 0 0000  |                                |  |  |  |  |  |
| 10. Segment Comment (limit to 200 characters):   |                                |  |  |  |  |  |
| 10. Segment Comment (mint to 200 characters)   | )·                             |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  |                                |  |  |  |  |  |
|  | ·                              |  |  |  |  |  |

DEP Form No. 62-210.900(1) - Form 177

| Emissions Unit Information Sec | tion6   | ·— ° | r9   | - |
|--------------------------------|---------|------|------|---|
| Segment Description and Rate:  | Segment | 2    | of 2 |   |

| 1. | Segment Description (Process/Fuel Type an (limit to 500 characters): CC1 Combined Cyc |      | • •                       |
|----|---|------|---------------------------|
| 2. | Source Classification Code (SCC): 2010020   | 1    | •                         |
| 3. | SCC Units: MMCF   |      |                           |
| 4. | Maximum Hourly Rate: 0.31   | 5. I | Maximum Annual Rate: 2709 |
| 6. | Estimated Annual Activity Factor:   |      |                           |
| 7. | Maximum Percent Sulfur:   | 8. 1 | Maximum Percent Ash:      |
| 9. | Million Btu per SCC Unit: 1027  |      |                           |
| 10 | Segment Comment (limit to 200 characters)   |      |                           |

DEP Form No. 62-210.900(1) - Form

# G. EMISSIONS UNIT POLLUTANTS (Regulated and Unregulated Emissions Units)

| 1. Pollutant Emitted   | 2. Primary Control | 3. Secondary Control | 4. Pollutant    |
|------------------------|--------------------|----------------------|-----------------|
| 1. I Ollutant Ellitted | Device Code        | Device Code          | Regulatory Code |
| SO <sub>2</sub>        |                    |                      | EL              |
| NO <sub>x</sub>        |                    |                      | EL              |
| PM                     |                    |                      | EL              |
| СО                     |                    |                      | NS              |
| VOC                    |                    |                      | NS              |
| PM10                   |                    |                      | NS              |
| H095                   |                    |                      | NS              |
| H133                   |                    |                      | NS              |
| H017                   |                    |                      | NS              |
| H014                   |                    |                      | NS              |
| H015                   |                    |                      | NS              |
| H027                   |                    |                      | NS              |
| H046                   |                    |                      | NS              |
| H047                   |                    |                      | NS              |
| H113                   |                    |                      | NS              |
| H162                   |                    |                      | NS              |
| H148                   |                    |                      | NS              |
| Pb                     |                    |                      | NS              |
|                        |                    |                      |                 |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 6 of 9 | <b>Emissions</b> | Unit | Inform | ation | Section | 6 | of | 9 |  |
|---|------------------|------|--------|-------|---------|---|----|---|--|
|---|------------------|------|--------|-------|---------|---|----|---|--|

## H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

### Pollutant Detail Information: 1 of 7

| 1. | Pollutant Emitted: SO2  |   |
|----|---|---|
| 2. | Total Percent Efficiency of Control:  | %   |
| 3. | Potential Emissions: 115 lb/hour 503  | tons/year                                   |
| 4. | Synthetically Limited? [ ] Yes [X ] No  |   |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1   | totons/year                                 |
| 6. | Emission Factor: 7.2 *%S * 2 SO2/1000 gal Oil<br>Reference: Stoicheometric Calculation per          |   |
| 7. | Emissions Method Code: [ ] 0 [ ] 1 [ ] 2 [X   | ] 3 [ ] 4 [ ] 5                             |
| 8. | Calculation of Emissions (limit to 600 characters   | s): Potential Emissions Based on Oil Firing |
|    | 7.2 lbs Oil/gas x 19972548 gal Oil/yr x 0   | 0035 S/lb Oil × 2 lb SO2/ 1 lb S            |
|    | 2000 lbs/t  | on  |
|    |   |   |
|    |   | ·   |
|    |   |   |
|    |   |   |
| 9. | Pollutant Potential/Estimated Emissions Comme   | nt (limit to 200 characters):               |
| l  | tential Emissions based on maximum heat input in ntent, and the minimum heating value of oil report | · · · · · · · · · · · · · · · · · · ·       |
|    |   |   |

DEP Form No. 62-210.900(1) - Form

| Er        | Emissions Unit Information Section6 of9                     |                       |                   |  |  |  |  |
|-----------|---|-----------------------|-------------------|--|--|--|--|
| <u>Al</u> | Allowable Emissions (Pollutant identified on front of page) |                       |                   |  |  |  |  |
| A.        |   |                       |                   |  |  |  |  |
| 1.        | Basis for Allowable Emissions Code: Other                   |                       |                   |  |  |  |  |
| 2.        | Future Effective Date of Allowable Emissions                |                       | _                 |  |  |  |  |
| 3.        | Requested Allowable Emissions and Units: 2.4                | 75 lb SO2/MMBTU       |                   |  |  |  |  |
| 4.        | Equivalent Allowable Emissions: 786.1                       | lb/hour 3442.94       | tons/year         |  |  |  |  |
| 5.        | Method of Compliance (limit to 60 characters:               | Monthly fuel analysis | reports submitted |  |  |  |  |

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Power Plant Siting Act Specific Conditions I.1

quarterly. SO2 emissions will be calculated stoichiometrically.

В.

| 1. | Basis for Allowable Emissions Code:                                       |               |                        |
|----|---|---------------|------------------------|
| 2. | Future Effective Date of Allowable Emissions:                             |               |                        |
| 3. | Requested Allowable Emissions and Units:                                  |               |                        |
| 4. | Equivalent Allowable Emissions:   | lb/hr         | tons/year              |
| 5. | Method of Compliance (limit to 60 characters):                            |               |                        |
| 6. | Pollutant Allowable Emissions Comment (Desc<br>(limit to 200 characters): | c. of Related | Operating Method/Mode) |
|    |   |               |                        |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> 6 | OI | 9 |
|---|----|---|
|---|----|---|

# H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

### Pollutant Detail Information: 2 of 7

| 1.  | Pollutant Emitted: NOx   |  |  |  |  |  |
|---|--|--|--|--|--|--|
| 2.  | Total Percent Efficiency of Control: %   |  |  |  |  |  |
| 3.  | Potential Emissions: 286 lb/hour 1252 tons/year  |  |  |  |  |  |
| 4.  | Synthetically Limited? [ ] Yes [X] No  |  |  |  |  |  |
|   | Range of Estimated Fugitive/Other Emissions:  [ ] 1  |  |  |  |  |  |
| 6.  | Emission Factor: 0.9 lbs NOx / MMBTU (oil)  Reference: NOx RACT RULE   |  |  |  |  |  |
| Wi  | Il be met as demonstrated by stack test @ Tom G. Smith Power Plant (7/93) See attachment   |  |  |  |  |  |
|   | Stack Test Data  |  |  |  |  |  |
| 7.  | Emissions Method Code:   |  |  |  |  |  |
|   | []0 [X]1 []2 []3 []4 []5   |  |  |  |  |  |
| 8.  | Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Oil Firing 0.9 lbs NOx/MMBTU Oil x 19973 1000 gallons/yr x 139.3 MMBTU Oil / 1000 gal |  |  |  |  |  |
| •   | 2000 lbs/ton   |  |  |  |  |  |
|   |  |  |  |  |  |  |
|   |  |  |  |  |  |  |
|   |  |  |  |  |  |  |
|   |  |  |  |  |  |  |
|   |  |  |  |  |  |  |
|   |  |  |  |  |  |  |
| O. Dellutent Detectiol/Estimated Emissions Comment (limit to 200 sharestors): |  |  |  |  |  |  |
| 9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): |  |  |  |  |  |  |
|   | Potential emissions based on maximum heat input rate, 8760 hours, minimum heating value of oil reported from 1992-1995.  |  |  |  |  |  |
|   |  |  |  |  |  |  |

DEP Form No. 62-210.900(1) - Form

|  | <b>Emissions</b> | Unit | Information | Section | 6 | of | 9 |  |
|--|------------------|------|-------------|---------|---|----|---|--|
|--|------------------|------|-------------|---------|---|----|---|--|

### Allowable Emissions (Pollutant identified on front of page)

| Α.       |  |
|----------|--|
| 1.       | Basis for Allowable Emissions Code: RULE   |
| 2.       | Future Effective Date of Allowable Emissions:  |
| 3.       | Requested Allowable Emissions and Units: 0.9 lb NOx / MMBTU  |
| 4.       | Equivalent Allowable Emissions: 285.8 lb/hour 1251.98 tons/year  |
| 5.       | Method of Compliance (limit to 60 characters): EPA Test Method 7E Conducted annually                   |
| 6.<br>to | Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit 200 characters): |
| to       | 200 characters):   |

#### R

- Basis for Allowable Emissions Code:
- 2. Future Effective Date of Allowable Emissions:
- 3. Requested Allowable Emissions and Units:
- 4. Equivalent Allowable Emissions:

lb/hr

tons/year

- 5. Method of Compliance (limit to 60 characters):
- 6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 6 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

## H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

### Pollutant Detail Information: 3 of 7

| 1.  | Pollutant Emitted: PM  |           |  |  |  |  |
|---|--|-----------|--|--|--|--|
| 2.  | Total Percent Efficiency of Control:   | %         |  |  |  |  |
| 3.  | Potential Emissions: 19 lb/hour 85   | tons/year |  |  |  |  |
| 4.  | Synthetically Limited? [ ] Yes [X] No  |           |  |  |  |  |
| 5.  | Range of Estimated Fugitive/Other Emissions:  [ ] 1  | tons/year |  |  |  |  |
| 6.  | Emission Factor: (0.038+ 0.023) lb PM/MMBTU Oil<br>Reference: EPA AP-42 Table 3.1-1  |           |  |  |  |  |
| 7.  | Emissions Method Code: [ ] 0   | [ ] 5     |  |  |  |  |
|   | Calculation of Emissions (limit to 600 characters): Potential Emissions (0.038+0.023) lb PM/MMBTU Oil x 19973 1000 gal Oil/yr x 139.3 MM |           |  |  |  |  |
|   | 2000 lbs/ton   |           |  |  |  |  |
|   |  |           |  |  |  |  |
|   |  |           |  |  |  |  |
|   |  |           |  |  |  |  |
| 9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): |  |           |  |  |  |  |
|   | Potential emissions based on maximum heat input rate, 8760 hours/year and minimum heating value of oil reported from 1992-1995.          |           |  |  |  |  |
|   |  |           |  |  |  |  |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section     | 6     | <u>_</u> | _ of _ | 9_    |     |
|--|-------|----------|--------|-------|-----|
| Allowable Emissions (Pollutant identif | ied o | on       | front  | of pa | ge) |

| A.        |  |             |               |                  |      |
|-----------|--|-------------|---------------|------------------|------|
| 1.        | Basis for Allowable Emissions Code: RULE   |             |               |                  |      |
| 2.        | Future Effective Date of Allowable Emissions:  |             |               |                  |      |
| 3.        | Requested Allowable Emissions and Units: 0.1   | lb PM/MI    | MBTU          |                  |      |
| 4.        | Equivalent Allowable Emissions: 31.8   | lb/hour     | 139.11        | tons/year        |      |
|           | Method of Compliance (limit to 60 characters): est required only if unit operation on oil, exclusive | e of startu | ıp, exceeds 4 | 00 hours/yr.     |      |
|           | Pollutant Allowable Emissions Comment (Desc 200 characters): Rule: 62-296.405 (1)(b)                 | of Relat    | ed Operating  | Method/Mode) (li | imit |
| <b>B.</b> | Basis for Allowable Emissions Code:  |             |               |                  |      |
| 2.        | Future Effective Date of Allowable Emissions:  |             |               |                  |      |
| 3.        | Requested Allowable Emissions and Units:   |             | <del>-</del>  |                  |      |
| 4.        | Equivalent Allowable Emissions:  | lb/hr       |               | tons/year        |      |
| 5.        | Method of Compliance (limit to 60 characters):   |             |               |                  |      |
| 6.        | Pollutant Allowable Emissions Comment (Desc (limit to 200 characters):                               | . of Relat  | ed Operating  | Method/Mode)     |      |

DEP Form No. 62-210.900(1) - Form 185 Effective: 3-21-96

|  | Emissions | Unit | Inforr | nation | Section | 6 | of | 9 |  |
|--|-----------|------|--------|--------|---------|---|----|---|--|
|--|-----------|------|--------|--------|---------|---|----|---|--|

# H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

### Pollutant Detail Information: 4 of 7

| 1.  | Pollutant Emitted: CO  | <u>-</u>     |     |       |             |  |
|---|--|--------------|-----|-------|-------------|--|
| 2.  | Total Percent Efficiency of Control:   |              |     | Q     | <del></del> |  |
| 3.  | Potential Emissions: 35  | lb/hour      | 153 | t     | ons/year    |  |
| 4.  | Synthetically Limited? [ ] Yes [X] No  |              |     |       |             |  |
|   | Range of Estimated Fugitive/Other E  [ ] 1 [ ] 2   |              |     | to    | tons/year   |  |
| 6.  | Emission Factor: 0.011 lbs CO / MN<br>Reference: EPA AP-42 Table 2   |              | _   |       |             |  |
| 7.  | Emissions Method Code: [ ] 0 [ ] 1 [ ] 2   | [X] 3        |     | [ ] 4 | [ ] 5       |  |
| 8.  | Calculation of Emissions (limit to 60 0.11 lb CO/MMGBTU Gas x 270  |              |     |       |             |  |
|   |  | 2000 lbs/ton |     |       |             |  |
|   |  |              |     |       |             |  |
|   |  |              |     |       |             |  |
|   |  |              |     |       |             |  |
| 9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): |  |              |     |       |             |  |
| 1   | Potential emissions based on maximum heat input rate, 8760 hours/year, and the minimum heating value of natural gas reported from 1992-1995. |              |     |       |             |  |
|   |  |              |     |       |             |  |

DEP Form No. 62-210.900(1) - Form

| All | lowable Emissions (Pollutant identified on front                        | of page)   |                        |        |
|-----|---|------------|------------------------|--------|
| A.  |   |            |                        |        |
| 1.  | Basis for Allowable Emissions Code:                                     |            |                        |        |
| 2.  | Future Effective Date of Allowable Emissions:                           |            |                        |        |
| 3.  | Requested Allowable Emissions and Units:                                |            |                        |        |
| 4.  | Equivalent Allowable Emissions:   | lb/hour    | tons/year              |        |
| 5.  | Method of Compliance (limit to 60 characters):                          |            |                        |        |
|     | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related | Operating Method/Mode) | (limit |
|     |   |            |                        |        |
|     |   |            |                        |        |
| В.  |   |            |                        |        |
| 1.  | Basis for Allowable Emissions Code:                                     |            |                        |        |
| 2.  | Future Effective Date of Allowable Emissions:                           |            |                        |        |
| 3.  | Requested Allowable Emissions and Units:                                |            |                        |        |
| 4.  | Equivalent Allowable Emissions:   | lb/hr      | tons/year              |        |
| 5.  | Method of Compliance (limit to 60 characters):                          |            |                        |        |
| 6.  | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related | Operating Method/Mode) |        |
|     |   |            |                        |        |
|     |   |            |                        |        |
|     |   |            |                        |        |

Emissions Unit Information Section \_\_\_6\_\_ of \_\_\_9\_\_

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 6 of 9 | Er | nissions | Unit | Infort | nation | Section | 6 | of | 9 |
|---|----|----------|------|--------|--------|---------|---|----|---|
|---|----|----------|------|--------|--------|---------|---|----|---|

# H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

### Pollutant Detail Information: 5 of 7

| 1. | Pollutant Emitted: VOC  |
|----|---|
| 2. | Total Percent Efficiency of Control: %  |
| 3. | Potential Emissions: 1 lb/hour 4 tons/year  |
| 4. | Synthetically Limited? [ ] Yes [X] No   |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1   |
| 6. | Emission Factor: 0.003 lbs VOC / MMBTU Oil Reference: Stack Test @ Tom G. Smith Power Plant (7/93) See Attachment L Stack Test Data                                   |
| 7. | Emissions Method Code: [ ] 0 [x] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5  |
| 8. | Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Oil Firing 0.003 lb VOC/MMBTU Oil x 19973 1000 gal Oil/yr x 139.3 MMBTU/1000 gal Oil |
|    | 2000 lbs/ton  |
|    |   |
| 9. | Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  |
| Po | tential emissions based on maximum heat input rate, 8760 hours/year and minimum heating ue of oil reported from 1992-1995.  |

DEP Form No. 62-210.900(1) - Form

| <u>Al</u> | lowable Emissions (Pollutant identified on front                        | of page)   |                                       |        |
|-----------|---|------------|---------------------------------------|--------|
| A.        |   |            |                                       |        |
| 1.        | Basis for Allowable Emissions Code:                                     |            |                                       |        |
| 2.        | Future Effective Date of Allowable Emissions:                           |            |                                       |        |
| 3.        | Requested Allowable Emissions and Units:                                |            |                                       |        |
| 4.        | Equivalent Allowable Emissions:   | lb/hour    | tons/year                             |        |
| 5.        | Method of Compliance (limit to 60 characters):                          |            |                                       |        |
|           | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related | Operating Method/Mode)                | (limit |
|           |   |            |                                       |        |
| <b>B.</b> | Basis for Allowable Emissions Code:                                     |            |                                       |        |
| 2.        | Future Effective Date of Allowable Emissions:                           |            | · · · · · · · · · · · · · · · · · · · |        |
| 3.        | Requested Allowable Emissions and Units:                                |            |                                       |        |
| 4.        | Equivalent Allowable Emissions:   | lb/hr      | tons/year                             |        |
| 5.        | Method of Compliance (limit to 60 characters):                          |            |                                       |        |
| 6.        | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related | Operating Method/Mode)                |        |
|           |   |            | •                                     |        |
|           |   |            |                                       |        |
|           |   |            |                                       |        |

Emissions Unit Information Section \_\_\_6\_\_ of \_\_\_9\_\_\_

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| Zinissions Onit Injoiniation Section 6 of 5 | of 9 | 6 | Unit Information Section | Emissions? |
|---|------|---|--------------------------|------------|
|---|------|---|--------------------------|------------|

# H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

### Pollutant Detail Information: 6 of 7

| 1. | Pollutant Emitted:                           | PM10                  | _           |                       |                    |   |
|----|--|-----------------------|-------------|-----------------------|--------------------|---|
| 2. | Total Percent Effic                          | ciency of C           | ontrol:     |                       |                    | %                                       |
| 3. | Potential Emission                           | ns: 9                 |             | lb/hour 4             | 1                  | tons/year                               |
| 4. | Synthetically Limit [ ] Yes                  |                       |             |                       |                    |   |
| 5. | Range of Estimate  [ ] 1                     | ed Fugitive/<br>[ ] 2 |             | ssions:               | to _               | tons/year                               |
| 6. | Emission Factor: (<br>Reference: E           | •                     | ,           |                       | MBTU Oil           |   |
| 7. | Emissions Method                             |                       | [ ] 2       | [X] 3                 | []4                | [ ] 5                                   |
|    | 038 + 0.023) lb PM                           | 110/MMB7              | ΓU Oil x 19 | 973 1000 ga<br>* 0.48 |                    | Bases on Oil Firing IMBTU/ 1000 gal Oil |
|    |  |                       |             | 000 lbs/ton           |                    |   |
|    |  |                       |             |                       |                    |   |
|    |  |                       |             |                       |                    |   |
|    |  |                       |             |                       |                    |   |
| 9. | Pollutant Potentia                           | l/Estimated           | Emissions   | Comment (             | imit to 200 charac | ters):                                  |
| 1  | tential emissions ba<br>ue of oil reported f |                       |             | input rate, 8         | 3760 hours/year ar | nd minimum heating                      |
|    |  |                       |             |                       |                    | ·                                       |

DEP Form No. 62-210.900(1) - Form

| En | nissions Unit Information Section6 of _                                 | 9          |                        |  |
|----|---|------------|------------------------|--|
| Al | lowable Emissions (Pollutant identified on front                        | of page)   |                        |  |
| Α. |   |            |                        |  |
| 1. | Basis for Allowable Emissions Code:                                     |            |                        |  |
| 2. | Future Effective Date of Allowable Emissions:                           |            |                        |  |
| 3. | Requested Allowable Emissions and Units:                                |            |                        |  |
| 4. | Equivalent Allowable Emissions:   | lb/hour    | tons/year              |  |
| 5. | Method of Compliance (limit to 60 characters):                          |            |                        |  |
| to | 200 characters):  |            |                        |  |
| В. |   |            |                        |  |
| 1. | Basis for Allowable Emissions Code:                                     |            |                        |  |
| 2. | Future Effective Date of Allowable Emissions:                           |            |                        |  |
| 3. | Requested Allowable Emissions and Units:                                |            |                        |  |
| 4. | Equivalent Allowable Emissions:   | lb/hr      | tons/year              |  |
| 5. | Method of Compliance (limit to 60 characters):                          |            |                        |  |
| 6. | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related | Operating Method/Mode) |  |

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| Emissions Unit Information Section 6 of 9 | En | nissions | Unit | Inform | ation | Section | 6 | of | 9 |  |
|---|----|----------|------|--------|-------|---------|---|----|---|--|
|---|----|----------|------|--------|-------|---------|---|----|---|--|

## H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

### Pollutant Detail Information: 7 of 7

| 1. | Pollutant Emitted: HAPS   |
|----|---|
| 2. | Total Percent Efficiency of Control: %  |
| 3. | Potential Emissions: 1.80 lb/hour 7.89 tons/year  |
| 4. | Synthetically Limited? [ ] Yes [X] No   |
| 5. | Range of Estimated Fugitive/Other Emissions:  [ ] 1   |
| 6. | Emission Factor: See Attachment M for HAPs Emissions Calculations Reference:  |
| 7. | Emissions Method Code: [ ] 0  |
| 8. | Calculation of Emissions (limit to 600 characters): Potential Emissions Bases on Oil Firing See Attachment M for HAPs Emissions Calculations  |
| HA | Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  APS: Formaldehyde (>1 tpy), Nickel (>1 tpy), Benzene, Antimony, Arsenic, Cadmium, romium, Cobalt, Manganese, Selenium & Phosphorus. |

DEP Form No. 62-210.900(1) - Form

| Er        | nissions Unit Information Section6 of                                   | 9          |              |              |        |
|-----------|---|------------|--------------|--------------|--------|
| <u>Al</u> | lowable Emissions (Pollutant identified on front                        | of page)   |              |              |        |
| Α.        |   |            |              |              |        |
| 1.        | Basis for Allowable Emissions Code:                                     |            |              |              |        |
| 2.        | Future Effective Date of Allowable Emissions:                           |            |              |              | _      |
| 3.        | Requested Allowable Emissions and Units:                                |            |              |              |        |
| 4.        | Equivalent Allowable Emissions:   | lb/hour    |              | tons/year    |        |
| 5.        | Method of Compliance (limit to 60 characters):                          |            |              | _            |        |
|           | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related | Operating    | Method/Mode) | (limit |
|           |   |            |              |              |        |
|           |   |            |              |              |        |
|           |   |            |              | _            |        |
| В.        |   |            |              |              |        |
| 1.        | Basis for Allowable Emissions Code:                                     |            |              | •            |        |
| 2.        | Future Effective Date of Allowable Emissions:                           |            |              |              | _      |
| 3.        | Requested Allowable Emissions and Units:                                |            |              |              |        |
| 4.        | Equivalent Allowable Emissions:   | lb/hr      | <del> </del> | tons/year    |        |
| 5.        | Method of Compliance (limit to 60 characters):                          |            |              |              |        |
| 6.        | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related | Operating    | Method/Mode) | _      |
|           |   |            |              |              |        |
|           |   |            |              |              |        |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions</b> | Unit | Inform | ation S | Section | 6 | of | 9 |  |
|------------------|------|--------|---------|---------|---|----|---|--|
|                  |      |        |         |         |   |    |   |  |

### I. VISIBLE EMISSIONS INFORMATION (Regulated Emissions Units Only)

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation \_\_1\_\_ of \_\_1\_ 1. Visible Emissions Subtype: VE 2. Basis for Allowable Opacity: [X] Rule [ ] Other 3. Requested Allowable Opacity: Normal Conditions: 20 % **Exceptional Conditions:** % Maximum Period of Excess Opacity Allowed: min/hour 4. Method of Compliance: Compliance Test Method 9 conducted annually. Testing conducted using the fuel and/or process input which are expected to result in the highest emissions and within ten (10%) of the rated capacity of the source. 5. Visible Emissions Comment (limit to 200 characters): 62-296.310(2) Visible Emissions Limitation: Visible Emissions Limitation of 1. Visible Emissions Subtype: 2. Basis for Allowable Opacity: [ ] Rule [ ] Other 3. Requested Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour 4. Method of Compliance: 5. Visible Emissions Comment (limit to 200 characters):

DEP Form No. 62-210.900(1) - Form

| <b>Emissions</b> | Unit | Information | Section | 6 | of | 9 |  |
|------------------|------|-------------|---------|---|----|---|--|
|                  |      |             |         |   |    |   |  |

# J. CONTINUOUS MONITOR INFORMATION (Regulated Emissions Units Only)

Continuous Monitoring System: Continuous Monitor of

|              |                               | Ta = 11          | -       |  |  |  |
|--------------|-------------------------------|------------------|---------|--|--|--|
|              | ter Code:                     | 2. Pollutant(s): |         |  |  |  |
| 3. CMS R     | equirement: [ ] Rule          | [                | ] Other |  |  |  |
| 4. Monitor   | Information:                  |                  |         |  |  |  |
| Manı         | ıfacturer:                    |                  |         |  |  |  |
| Model        | Number:                       |                  |         |  |  |  |
| Serial N     | umber:                        | _                |         |  |  |  |
| 5. Installat | ion Date:                     |                  | -       |  |  |  |
| 6. Perform   | ance Specification Test Date: |                  |         |  |  |  |
| 7. Continu   | ous Monitor Comment (limit to | 200 characters): |         |  |  |  |
|              | ·                             | ŕ                |         |  |  |  |
| 18           |                               |                  |         |  |  |  |
|              |                               |                  |         |  |  |  |
|              |                               |                  |         |  |  |  |
|              |                               |                  |         |  |  |  |
|              |                               |                  |         |  |  |  |
|              |                               |                  |         |  |  |  |
|              |                               |                  |         |  |  |  |
| Continuou    | s Monitoring System: Continue | ous Monitor of   |         |  |  |  |
| 1. Paramet   | er Code:                      | 2. Pollutant(s): |         |  |  |  |
|              |                               | r 7              | Othor   |  |  |  |
| 3. CMS R     | equirement:[ ] Rule           | [ ]              | Other   |  |  |  |
| 4. Monitor   | Information:                  |                  |         |  |  |  |
|              | ıfacturer:                    |                  |         |  |  |  |
|              | Number:                       |                  |         |  |  |  |
| Serial N     |                               |                  |         |  |  |  |
|              | ion Date:                     |                  |         |  |  |  |
| J. Installat |                               |                  |         |  |  |  |
| 6. Perform   | ance Specification Test Date: |                  |         |  |  |  |
| 7. Continu   | ous Monitor Comment (limit to | 200 characters): |         |  |  |  |
|              |                               |                  |         |  |  |  |
|              |                               |                  |         |  |  |  |
|              |                               |                  |         |  |  |  |
|              |                               |                  |         |  |  |  |
|              |                               |                  |         |  |  |  |
|              |                               |                  |         |  |  |  |
|              |                               |                  |         |  |  |  |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions</b> | Unit | Informat  | tion S | Section | 6 | of | 9 |  |
|------------------|------|-----------|--------|---------|---|----|---|--|
|                  | ~    | THEOL INA |        | CCLIOIL | v | V. | _ |  |

# K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

(Regulated and Unregulated Emissions Units)

### PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

date that may consume or expand increment.

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

|    |   | the first statement, if any, that applies and skip remaining statements.   |
|----|---|--|
| [  | ] | The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.   |
| [  | ] | The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment. |
| [  | ] | The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.  |
| [X | ] | For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.   |
| ٢  | 1 | None of the above apply. If so, the baseline emissions of the emissions unit are nonzero   |

In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline

DEP Form No. 62-210.900(1) - Form

|  | Emissions | Unit | Information | Section | 6 | of | 9 |  |
|--|-----------|------|-------------|---------|---|----|---|--|
|--|-----------|------|-------------|---------|---|----|---|--|

| 2. | Increment Consuming for N                       | Vitrogen Dioxide?   |   |
|----|---|---|---|
|    | series of questions to make                     | a preliminary determinatio ent for nitrogen dioxide. C                                  | rogen oxides, answer the following n as to whether or not the emissions heck first statement, if any, that applies                                      |
|    |   | dergone PSD review previo   | dergoing PSD review as part of this busly, for nitrogen dioxide. If so,   |
|    | paragraph (c) of the d<br>F.A.C., and the emiss | efinition of "major source of ions unit addressed in this soruary 8, 1988. If so, basel | fied as an EPA major source pursuant to of air pollution" in Chapter 62-213, section commenced (or will commence) ine emissions are zero, and emissions |
|    | emissions unit began i                          | nitial operation after Febru  | fied as an EPA major source, and the ary 8, 1988, but before March 28, issions unit consumes increment.   |
|    |   |   | begin) initial operation after March 28, issions unit consumes increment.   |
|    | In such case, addition determine whether ch     | al analysis, beyond the sco   | ssions of the emissions unit are nonzero. pe of this application, is needed to curred (or will occur) after the baseline                                |
| 3  | Increment Consuming/Expa                        | anding Code:  |   |
|    | PM [ ] C  | _   | [ ] Unknown   |
|    | SO2 [ ] C                                       | [ ] E   | [ ] Unknown   |
|    | NO2 [ ] C                                       | [ ] E   | [ ] Unknown   |
| 4. | Baseline Emissions:                             |   |   |
|    | PM  | lb/hour   | tons/year   |
|    | SO2   | lb/hour   | tons/year   |
|    | NO2   |   | tons/year   |

DEP Form No. 62-210.900(1) - Form 197

5. PSD Comment (limit to 200 characters): Commission year is 1978

Effective: 3-21-96

۲

| Emissions Unit Information Section 6 of | 9 |  |
|---|---|--|
|---|---|--|

# L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

### Supplemental Requirements for All Applications

| 1. | Process Flow Diagram  |
|----|---|
|    | [x ] Attached, Document ID:_Att C [ ] Not Applicable [ ] Waiver Requested   |
| 2. | Fuel Analysis or Specification  |
|    | [x ] Attached, Document ID:_Att. D_ [ ] Not Applicable [ ] Waiver Requested |
| 3. | Detailed Description of Control Equipment                                   |
|    | [ ] Attached, Document ID: [x ] Not Applicable [ ] Waiver Requested         |
| 4. | Description of Stack Sampling Facilities                                    |
|    | [x ] Attached, Document ID:_Att. E [ ] Not Applicable [ ] Waiver Requested  |
| 5. | Compliance Test Report  |
|    | [ ] Attached, Document ID:  |
|    |   |
|    | Previously submitted, Date:   |
|    | [x ] Not Applicable   |
|    |   |
| 6. | Procedures for Startup and Shutdown   |
|    | [ ] Attached, Document ID: [x ] Not Applicable                              |
|    |   |
| 7. | Operation and Maintenance Plan  |
|    | [ ] Attached, Document ID: [x ] Not Applicable                              |
|    | · · · · · · · · · · · · · · · · · · ·                                       |
| 8. | Supplemental Information for Construction Permit Application                |
|    | [ ] Attached, Document ID: [x ] Not Applicable                              |
| 9. | Other Information Required by Rule or Statute                               |
|    | [ ] Attached, Document ID: [x ] Not Applicable                              |
|    |   |

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

| Emissions Unit Information Section | 6 | of | 9 |  |
|------------------------------------|---|----|---|--|
|------------------------------------|---|----|---|--|

### Additional Supplemental Requirements for Category I Applications Only

| 10. Alternative Methods of Operation   |
|--|
| [ ] Attached, Document ID: [x ] Not Applicable                                     |
| 11. Alternative Modes of Operation (Emissions Trading)                             |
| [ ] Attached, Document ID: [x ] Not Applicable                                     |
| 12. Identification of Additional Applicable Requirements                           |
| [ ] Attached, Document ID: [x ] Not Applicable                                     |
| 13. Compliance Assurance Monitoring Plan   |
| [x ] Attached, Document ID:_Att. K_ [ ] Not Applicable                             |
| 14. Acid Rain Application (Hard-copy Required)                                     |
| [ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID:   |
| [ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: |
| [ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID:        |
| [ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID:    |
| [x ] Not Applicable  |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions</b> | <b>Unit Information Section</b> | 7 | of s | 9 |
|------------------|---------------------------------|---|------|---|
|                  |                                 |   |      |   |

#### III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

### A. TYPE OF EMISSIONS UNIT

| (Regulated and Unregulated Emissions Units)   |
|---|
| Type of Emissions Unit Addressed in This Section  |
| 1. Regulated or Unregulated Emissions Unit? Check one:  |
| [ ] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.  |
| [X ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.  |
| 2. Single Process, Group of Processes, or Fugitive Only? Check one:   |
| [ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). |
| [ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.   |
| [X] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.  |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 7 | of | 9 |  |
|------------------------------------|---|----|---|--|
|------------------------------------|---|----|---|--|

# B. GENERAL EMISSIONS UNIT INFORMATION (Regulated and Unregulated Emissions Units)

### **Emissions Unit Description and Status**

| <u>-</u>   | nit Addressed in This Section (lin<br>5, 6, 5000 and 950 gallon Lube | •   |
|--|--|---|
| Tank 4 is fixed roof 26,634 ga<br>Tank 5 is fixed roof 15,600 ga<br>Tank 6 is fixed roof 15,600 ga<br>5000 gallons lube oil tank con<br>950 gallons lube oil tank cons<br>Fuel Oil fittings and pumps lo | tructed in 1978<br>eaks  | 04/51<br>04/51<br>04/51                       |
| 2. Emissions Unit Identificatio  | n Number:[ ]No Corresponding   | g ID [x] Unknown                              |
| 3. Emissions Unit Status Code: A   | 4. Acid Rain Unit? [ ] Yes [x ] No                                   | 5. Emissions Unit Major<br>Group SIC Code: 49 |
| 6. Emissions Unit Comment (1   | imit to 500 characters):   | •   |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Control Equipment          |   |
|---|---|
| <b>A.</b>                                 |   |
| 1. Description (limit to 200 characters): |   |
|   |   |
| 2. Control Device or Method Code:         |   |
| В.  |   |
| 1. Description (limit to 200 characters): | • |
|   |   |
| 2. Control Device or Method Code:         |   |
| <b>C</b> .                                |   |
| 1. Description (limit to 200 characters): |   |
| 2. Control Device or Method Code:         |   |

Emissions Unit Information Section \_\_\_7\_\_ of \_\_\_9\_\_

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

202

| <b>Emissions Un</b> | t Information | Section | 7 | of | 9 |
|---------------------|---------------|---------|---|----|---|
|---------------------|---------------|---------|---|----|---|

# D. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

| Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.) |   |  |  |  |
|--|---|--|--|--|
|  | - |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 7 of | 9 |  |
|---|---|--|
|---|---|--|

<u>List of Applicable Regulations</u> (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

| Federal: None               |  |
|-----------------------------|--|
| State: 62-213.420(3) F.A.C. | Title V reportable quantities of all known and suspected emissions sources |
| 62-296.320, F.A.C.          | General Pollutant Emissions Limiting Standards                             |
| Title V Core List (3/25/96) | Presumptively Applicable (Federal & State)                                 |
| Local: None                 |  |
| ·                           |  |
|                             |  |
|                             |  |
|                             |  |

| Emissions Unit Information Section | 7 | of | 9 |
|------------------------------------|---|----|---|
|------------------------------------|---|----|---|

# E. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

### **Emission Point Description and Type**

|    | Identification of 3, T-4, T-5, T-6, |        |                  |           |         |            | LO (   | 950 gal  | lons)                    |
|----|-------------------------------------|--------|------------------|-----------|---------|------------|--------|----------|--------------------------|
| 2. | Emission Point                      | Туре   | Code:            |           |         |            |        |          |                          |
|    | [ ] 1                               |        |                  | [         | x ] 3   |            | [      | ] 4      |                          |
| 3. | Descriptions of 100 characters p    |        |                  | ints Com  | prising | this Emi   | ssion  | s Unit f | or VE Tracking (limit to |
| 4. | ID Numbers or                       | Desci  | riptions o       | of Emissi | on Uni  | ts with th | nis En | nission  | Point in Common:         |
| 5. | Discharge Type  [ ] D  [ ] R        |        | e:<br>] F<br>] V | [         | ] H     |            | [x     | ] P      |                          |
| 6. | Stack Height:                       |        |                  |           |         |            |        |          | feet                     |
| 7. | Exit Diameter:                      |        |                  |           |         |            | _      |          | feet                     |
| 8. | Exit Temperatu                      | re: 77 | 7                |           |         |            |        |          | °F                       |
|    |                                     |        |                  |           |         |            |        |          |                          |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 7 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

| 9. Actual Volumetric Flov    | v Rate:  | acfm   |
|------------------------------|--|--|
| 10. Percent Water Vapor :    |  | %  |
| 11. Maximum Dry Standar      | d Flow Rate:   | dscfm  |
| 12. Nonstack Emission Po     | int Height: 11.33                                    | feet   |
| 13. Emission Point UTM C     | Coordinates:   |  |
| Zone: 17                     | East (km): 592.8                                     | North (km): 2943.7   |
| tanks 3 and 4 are 93 lb/yr ( | each tank). The VOC po<br>oil tanks potential emissi | s): The VOC potential emissions from tential emissions from tanks 5 and 6 are 77 ons are less than 0.05 lb/yr. The ssion unit. |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 7 | OI | 9 |
|--------------------------------------|----|---|
|--------------------------------------|----|---|

# F. SEGMENT (PROCESS/FUEL) INFORMATION (Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment \_\_1\_\_ of \_\_1\_\_

| 1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): |                         |  |  |
|--|-------------------------|--|--|
| Working loss and breathing loss from fixed roof  | storage tanks           |  |  |
|  |                         |  |  |
|  |                         |  |  |
|  |                         |  |  |
|  |                         |  |  |
|  |                         |  |  |
|  |                         |  |  |
|  |                         |  |  |
|  |                         |  |  |
|  |                         |  |  |
|  |                         |  |  |
|  |                         |  |  |
|  |                         |  |  |
|  |                         |  |  |
| 2. Source Classification Code (SCC):   |                         |  |  |
| (See Comments Field)   |                         |  |  |
| 3. SCC Units: 1000 gallons throughput  |                         |  |  |
|  |                         |  |  |
| 4. Maximum Hourly Rate:  | 5. Maximum Annual Rate: |  |  |
|  |                         |  |  |
| 6. Estimated Annual Activity Factor: See Segm  | nent Comment            |  |  |
|  | •                       |  |  |
| 7. Maximum Percent Sulfur:   | 8. Maximum Percent Ash: |  |  |
|  |                         |  |  |
| 9. Million Btu per SCC Unit:   |                         |  |  |
|  |                         |  |  |
| 10. Segment Comment (limit to 200 characters):   |                         |  |  |
| 40301021 Distillate Fuel #2 Fixed Roof Working   |                         |  |  |
| 40301019 Distillate Fuel #2 Fixed Roof Breathin  | <del>-</del>            |  |  |
| 105 010 19 Biotiliate 1 act #2 1 Mea 1001 Bioatilii  | .5 2000                 |  |  |
| Tank Capacities:   |                         |  |  |
| Tank 3 and 4 - 26,634 gallons each   |                         |  |  |
| Tank 5 and 6 - 15,600 gallons each   |                         |  |  |
| Tank 5 and 6 - 15,000 ganons cach  |                         |  |  |
|  |                         |  |  |
|  |                         |  |  |
|  |                         |  |  |
|  |                         |  |  |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit | t Information S | ection   | _7 ( | of | 9 |
|----------------|-----------------|----------|------|----|---|
|                |                 |          |      |    |   |
| Segment Descr  | iption and Rate | e: Segme | nt   | of |   |

| 1.  |   |    |                      |  |  |
|-----|---|----|----------------------|--|--|
|     | (limit to 500 characters):                  |    |                      |  |  |
|     |   |    |                      |  |  |
|     |   |    |                      |  |  |
|     |   |    |                      |  |  |
|     |   |    |                      |  |  |
|     |   |    |                      |  |  |
|     |   |    |                      |  |  |
|     |   |    |                      |  |  |
|     |   |    |                      |  |  |
|     |   |    |                      |  |  |
|     |   |    |                      |  |  |
|     |   |    |                      |  |  |
| 2.  | Source Classification Code (SCC):           |    |                      |  |  |
|     | 20077                                       |    |                      |  |  |
| 3.  | SCC Units:                                  |    |                      |  |  |
| 4   | Maximum Hourly Rate:                        | 5  | Maximum Annual Rate: |  |  |
| .,  |   |    |                      |  |  |
| 6.  | Estimated Annual Activity Factor:           |    |                      |  |  |
|     | 2.6   | _  | 76                   |  |  |
| 7.  | Maximum Percent Sulfur:                     | 8. | Maximum Percent Ash: |  |  |
| 9.  | Million Btu per SCC Unit:                   |    |                      |  |  |
|     |   |    |                      |  |  |
|     |   |    |                      |  |  |
| 10. | . Segment Comment (limit to 200 characters) | :  |                      |  |  |
|     |   |    |                      |  |  |
|     |   |    |                      |  |  |
|     |   |    |                      |  |  |
|     |   |    |                      |  |  |
|     |   |    |                      |  |  |
|     |   |    |                      |  |  |
|     | •   |    |                      |  |  |
|     |   |    |                      |  |  |

DEP Form No. 62-210.900(1) - Form

| E | missions    | Unit  | Information    | Section | 7 | Ωf | 9 |  |
|---|-------------|-------|----------------|---------|---|----|---|--|
| _ | 11112210112 | Ullit | milloi mattion | Section | , | υı | , |  |

# G. EMISSIONS UNIT POLLUTANTS (Regulated and Unregulated Emissions Units)

| 1. | Pollutant Emitted | 2. Primary Control | 3. Secondary Control | 4. Pollutant    |  |  |
|----|-------------------|--------------------|----------------------|-----------------|--|--|
|    |                   | Device Code        | Device Code          | Regulatory Code |  |  |
|    | VOC               |                    |                      | NS              |  |  |
|    |                   |                    |                      |                 |  |  |
|    |                   |                    |                      |                 |  |  |
|    |                   |                    |                      |                 |  |  |
|    |                   |                    |                      |                 |  |  |
|    |                   |                    | ,                    |                 |  |  |
|    |                   |                    |                      |                 |  |  |
|    |                   |                    |                      |                 |  |  |
|    |                   |                    |                      |                 |  |  |
|    |                   |                    |                      |                 |  |  |
|    |                   |                    |                      |                 |  |  |
|    |                   |                    |                      |                 |  |  |
|    |                   |                    |                      |                 |  |  |
|    |                   |                    |                      |                 |  |  |
|    |                   |                    | .:                   | _               |  |  |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 7 | of | 9 |  |
|------------------------------------|---|----|---|--|
|------------------------------------|---|----|---|--|

# H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

### **Pollutant Detail Information:**

| _  | D.H. (F. tr. 1 TOC  |                                |             |
|----|---|--------------------------------|-------------|
| 1. | Pollutant Emitted: VOC  |                                |             |
| 2. | Total Percent Efficiency of Control:  |                                | %           |
| 3. | Potential Emissions:  | lb/hour                        | tons/year   |
| 4. | Synthetically Limited?  |                                |             |
|    | [ ] Yes [X] No  | e.                             |             |
| 5. | Range of Estimated Fugitive/Other Emis  |                                |             |
|    | [ ] 1 [ ] 2 [   | ] 30to_                        | l tons/year |
| 6. | Emission Factor: EPA Tanks Program Reference: AP-42   |                                |             |
| 7. | Emissions Method Code:  |                                |             |
|    | []0 []1 []2   | [x] 3 [] 4                     | [ ] 5       |
| 8. | Calculation of Emissions (limit to 600 ch   | aracters):                     |             |
| Se | ee Attached Printout Attachment F   |                                |             |
|    |   |                                |             |
|    |   |                                |             |
|    |   |                                |             |
|    |   |                                |             |
| Ta | Pollutant Potential/Estimated Emissions nk potential emissions are based on the Fults on fuel oil at maximum capacity for 8,7 | iel throughput required to ope | •           |
|    |   |                                |             |
|    |   |                                |             |
| 1  |   |                                |             |

DEP Form No. 62-210.900(1) - Form

| <u>Al</u> | lowable Emissions (Pollutant identified on front                        | of page)                              |                          |      |
|-----------|---|---------------------------------------|--------------------------|------|
| Α.        |   |                                       |                          |      |
| 1.        | Basis for Allowable Emissions Code:                                     |                                       |                          |      |
| 2.        | Future Effective Date of Allowable Emissions:                           |                                       |                          | _    |
| 3.        | Requested Allowable Emissions and Units:                                |                                       |                          |      |
| 4.        | Equivalent Allowable Emissions:   | lb/hour                               | tons/year                |      |
| 5.        | Method of Compliance (limit to 60 characters):                          |                                       |                          |      |
|           | Pollutant Allowable Emissions Comment (Desc. 200 characters):           | of Related (                          | Operating Method/Mode) ( | limi |
|           |   |                                       |                          |      |
|           |   |                                       |                          |      |
| В.        |   | · · · · · · · · · · · · · · · · · · · |                          |      |
| 1.        | Basis for Allowable Emissions Code:                                     |                                       |                          |      |
| 2.        | Future Effective Date of Allowable Emissions:                           |                                       |                          |      |
| 3.        | Requested Allowable Emissions and Units:                                |                                       |                          |      |
| 4.        | Equivalent Allowable Emissions:   | lb/hr                                 | tons/year                |      |
| 5.        | Method of Compliance (limit to 60 characters):                          |                                       |                          |      |
| 6.        | Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters): | of Related                            | Operating Method/Mode)   |      |
|           |   |                                       |                          |      |

Emissions Unit Information Section \_\_\_7\_\_ of \_\_\_9\_\_

| <b>Emissions Unit Information Section</b> | 8 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

### III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

## A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

### Type of Emissions Unit Addressed in This Section

| 1. | Re | egulated or Unregulated Emissions Unit? Check one:  |
|----|----|---|
| [  | ]  | The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.  |
| [X | ]  | The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.   |
| 2. | Si | ngle Process, Group of Processes, or Fugitive Only? Check one:  |
| [  | ]  | This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). |
| [  | ]  | This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.   |
| [X | ]  | This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.  |

| Emissions Unit Information Section 8 of | 9 |
|---|---|
|---|---|

# B. GENERAL EMISSIONS UNIT INFORMATION (Regulated and Unregulated Emissions Units)

### **Emissions Unit Description and Status**

|                                  | Jnit Addressed in This Section (li | mit to 60 characters):  |  |  |  |  |
|----------------------------------|------------------------------------|-------------------------|--|--|--|--|
| Fuel Oil Storage Tanks 10 a      |                                    |                         |  |  |  |  |
|                                  | gallons capacity, constructed in   |                         |  |  |  |  |
| Tank 11 is fixed roof 20,134     | gallons capacity, constructed in   | n 05/92                 |  |  |  |  |
| 2. Emissions Unit Identificati   | on Number:[ ]No Correspondir       | ng ID [x] Unknown       |  |  |  |  |
|                                  |                                    | 1                       |  |  |  |  |
| 3. Emissions Unit Status         | 4. Acid Rain Unit?                 | 5. Emissions Unit Major |  |  |  |  |
| Code: A                          | [ ] Yes [x ] No                    | Group SIC Code: 49      |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
| 6. Emissions Unit Comment (      | (limit to 500 characters):         |                         |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
| Emissions Unit Control Equipment |                                    |                         |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
| Α.                               |                                    |                         |  |  |  |  |
| 1. Description (limit to 200 c   | haracters):                        |                         |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
|                                  |                                    |                         |  |  |  |  |
| 2. Control Device or Method      | Code:                              |                         |  |  |  |  |

DEP Form No. 62-210.900(1) - Form

| В.         |  |
|------------|--|
| 1.         | Description (limit to 200 characters): |
|            |  |
|            |  |
|            |  |
|            |  |
|            |  |
|            |  |
|            |  |
|            |  |
|            |  |
| 2.         | Control Device or Method Code:         |
| Ĺ          |  |
|            |  |
| <u>C</u> . |  |
| 1.         | Description (limit to 200 characters): |
|            |  |
|            | •                                      |
| 1          |  |
| 1          |  |
| 1          |  |
| 1          |  |
|            |  |
|            |  |
|            | · _                                    |
| 2.         | Control Device or Method Code:         |

Emissions Unit Information Section \_\_\_8\_\_ of \_\_\_9\_

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information                                | 1 Section 8 of 9  |
|---|---|
| D   | . EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)                             |
| Rule Applicability Analysis applications involving non Ti | (Required for Category II applications and Category III tle-V sources. See Instructions.) |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |

| Emissio | ns T | Jnit | Info | rmation | Section | 8 | of | 9 |
|---------|------|------|------|---------|---------|---|----|---|
|         |      |      |      |         |         |   |    |   |

<u>List of Applicable Regulations</u> (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

| Federal: 40 CFR 60 Subpart Kb | Volatile Organic Liquid Storage Vessel with capacity greater than or equal to 10,568 gallons constructed after 7/23/84 |
|-------------------------------|--|
| State: 62-213.420(3) F.A.C.   | Title V reportable quantities of all known and suspected emissions sources   |
| 62-296.320, F.A.C.            | General Pollutant Emissions Limiting Standards   |
| Title V Core List (3/25/96)   | Presumptively Applicable (Federal & State)   |
| Local: None                   |  |
|                               |  |
|                               |  |
|                               |  |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions</b> | Unit | Informa | ition | Section | 8 | of | 9 |
|------------------|------|---------|-------|---------|---|----|---|
|                  |      |         |       |         |   |    |   |

# E. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

### **Emission Point Description and Type**

| 1. | Identification of Point on Plot Plan or Fl                           | ow Diagram:       | Г-10, Т-11       |                    |
|----|--|-------------------|------------------|--------------------|
| 2. | Emission Point Type Code:  |                   |                  |                    |
|    | [ ] 1  | [ ] 3             | [ ] 4            |                    |
| 3. | Descriptions of Emissions Points Compi<br>100 characters per point): | ising this Emiss  | ions Unit for VE | Tracking (limit to |
| 4. | ID Numbers or Descriptions of Emission                               | n Units with this | s Emission Point | in Common:         |
| 5. | Discharge Type Code:  [ ] D  | ] H<br>] W        | [X ] P           |                    |
| 6. | Stack Height:  |                   |                  | feet               |
| 7. | Exit Diameter:   |                   | <u> </u>         | feet               |
| 8. | Exit Temperature: 77   |                   |                  | °F                 |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 8 | of | 9 |  |
|------------------------------------|---|----|---|--|
|------------------------------------|---|----|---|--|

| 9. Actual Volumetric F  | low Rate:                     | acfm               |
|-------------------------|-------------------------------|--------------------|
| 10. Percent Water Vapor | †:                            | %                  |
| 11. Maximum Dry Stand   | ard Flow Rate:                | dscfm              |
| 12. Nonstack Emission   | Point Height: 31              | feet               |
| 13. Emission Point UTM  | Coordinates:                  |                    |
| Zone: 17                | East (km): 592.8              | North (km): 2943.7 |
|                         | ment (limit to 200 characters | e identical.       |

| <b>Emissions Unit Information Section</b> | 8 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

# F. SEGMENT (PROCESS/FUEL) INFORMATION (Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment \_\_1\_\_ of \_\_1\_\_

| 1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): |                          |  |  |  |
|--|--------------------------|--|--|--|
| Working loss and breathing loss from fixed roof  | storage tanks.           |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |
| ·  |                          |  |  |  |
| 2. Source Classification Code (SCC):   |                          |  |  |  |
| (See Comments Section)   |                          |  |  |  |
| 3. SCC Units: 1000 gallons throughput  |                          |  |  |  |
|  |                          |  |  |  |
| 4. Maximum Hourly Rate:  | 5. Maximum Annual Rate:  |  |  |  |
|  |                          |  |  |  |
| 6. Estimated Annual Activity Factor: 20,134 g  | allons each              |  |  |  |
| 5. Estimated Filmoun Flouring Fueron 20,15 + 5   |                          |  |  |  |
| 7. Maximum Percent Sulfur:   | 8. Maximum Percent Ash:  |  |  |  |
| 7. Waxiiidii Terecit Sultur.   | o. Waximum Tereent 71sm. |  |  |  |
| O ACIN - Dr CCCTL'   |                          |  |  |  |
| 9. Million Btu per SCC Unit:   |                          |  |  |  |
|  |                          |  |  |  |
| 10. Segment Comment (limit to 200 characters):   |                          |  |  |  |
| 40301021 Distillate Fuel #2 Fixed Roof Working Loss  |                          |  |  |  |
| 40301019 Distillate Fuel #2 Fixed Roof Breathing Loss  |                          |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 8 of 9                            |                                     |  |  |  |
|--|-------------------------------------|--|--|--|
| Segment Description and Rate: Segment                                | of                                  |  |  |  |
| Segment Description (Process/Fuel Type ar (limit to 500 characters): | d Associated Operating Method/Mode) |  |  |  |
| 2. Source Classification Code (SCC):                                 |                                     |  |  |  |
| 3. SCC Units:  |                                     |  |  |  |
| 4. Maximum Hourly Rate:  | 5. Maximum Annual Rate:             |  |  |  |
| 6. Estimated Annual Activity Factor:                                 |                                     |  |  |  |
| 7. Maximum Percent Sulfur:   | 8. Maximum Percent Ash:             |  |  |  |
| 9. Million Btu per SCC Unit:   |                                     |  |  |  |
| 10. Segment Comment (limit to 200 characters)                        | · .                                 |  |  |  |

|  | Emissions | Unit Information Section | 8 | of | 9 |  |
|--|-----------|--------------------------|---|----|---|--|
|--|-----------|--------------------------|---|----|---|--|

# G. EMISSIONS UNIT POLLUTANTS (Regulated and Unregulated Emissions Units)

| 1. Pollutant Emitted | Primary Control     Device Code | Secondary Control     Device Code | 4. Pollutant Regulatory Code |
|----------------------|---------------------------------|-----------------------------------|------------------------------|
| VOC                  |                                 | •                                 | NS                           |
|                      |                                 |                                   |                              |
|                      |                                 |                                   |                              |
|                      |                                 |                                   |                              |
|                      |                                 |                                   |                              |
|                      |                                 |                                   |                              |
|                      |                                 |                                   |                              |
|                      | ·                               |                                   |                              |
|                      |                                 |                                   |                              |
|                      |                                 |                                   |                              |
|                      |                                 |                                   |                              |
|                      |                                 |                                   |                              |
|                      |                                 |                                   | _                            |
|                      |                                 |                                   |                              |
|                      |                                 |                                   |                              |
|                      |                                 |                                   |                              |
|                      |                                 |                                   |                              |
|                      |                                 |                                   |                              |
|                      |                                 |                                   |                              |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 8 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

# H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

### **Pollutant Detail Information:**

| 1. | Pollutant Emitted: VOC  |                                 | .,,        |
|----|---|---------------------------------|------------|
| 2. | Total Percent Efficiency of Control:  |                                 | %          |
| 3. | Potential Emissions:  | lb/hour                         | tons/year  |
| 4. | Synthetically Limited? [ ] Yes [X] No   |                                 |            |
| 5. | Range of Estimated Fugitive/Other Em [ ] 1 [ ] 2 [  |                                 | 1tons/year |
| 6. | Emission Factor: EPA Tanks Program<br>Reference: AP-42  |                                 |            |
| 7. | Emissions Method Code: [ ] 0  | [x] 3 [] 4                      | [ ] 5      |
| 8. | Calculation of Emissions (limit to 600 of   | characters):                    |            |
| Se | ee Attached Printout Attachment F   |                                 |            |
|    |   |                                 |            |
|    |   |                                 | •          |
|    |   |                                 |            |
|    |   |                                 |            |
|    |   |                                 |            |
| Ta | Pollutant Potential/Estimated Emission nk potential emissions are based on the lits on fuel oil at maximum capacity for 8 | Fuel throughput required to ope | •          |
|    |   |                                 |            |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 8 of 9 | 8 of 9 |
|---|--------|
|---|--------|

### Allowable Emissions (Pollutant identified on front of page)

| Α.        |   |                      |                     |
|-----------|---|----------------------|---------------------|
| 1.        | Basis for Allowable Emissions Code:                           |                      |                     |
| 2.        | Future Effective Date of Allowable Emissions:                 |                      |                     |
| 3.        | Requested Allowable Emissions and Units:                      |                      |                     |
| 4.        | Equivalent Allowable Emissions:                               | lb/hour              | tons/year           |
| 5.        | Method of Compliance (limit to 60 characters):                |                      |                     |
| 1         | Pollutant Allowable Emissions Comment (Desc. 200 characters): | of Related Operating | Method/Mode) (limit |
| <u>B.</u> |   |                      |                     |
| 1.        | Basis for Allowable Emissions Code:                           |                      |                     |
| 2.        | Future Effective Date of Allowable Emissions:                 |                      |                     |
| 3.        | Requested Allowable Emissions and Units:                      |                      |                     |
| 4.        | Equivalent Allowable Emissions:                               | lb/hr                | tons/year           |

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

(limit to 200 characters):

5. Method of Compliance (limit to 60 characters):

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode)

| <b>Emissions</b> | Unit | Information Sec | ction 9 | ) o | of ! | 9 |
|------------------|------|-----------------|---------|-----|------|---|
|------------------|------|-----------------|---------|-----|------|---|

### III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

### A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

| <u>1 y</u> | pe | e of Emissions Unit Addressed in This Section   |
|------------|----|---|
| 1.         | R  | egulated or Unregulated Emissions Unit? Check one:  |
| [          | ]  | The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.  |
| [X         | ]  | The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.   |
| 2.         | Si | ingle Process, Group of Processes, or Fugitive Only? Check one:   |
| [          | ]  | This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). |
| [          | ]  | This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.   |
| [X         | ]  | This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.  |

DEP Form No. 62-210.900(1) - Form

| Emissions | Unit I | nformation | Section | 9 | of | 9 |  |
|-----------|--------|------------|---------|---|----|---|--|
|-----------|--------|------------|---------|---|----|---|--|

## B. GENERAL EMISSIONS UNIT INFORMATION (Regulated and Unregulated Emissions Units)

| Emissions Unit Description a                                | ind Status   |   |
|---|--|---|
| Fuel Oil Storage Tanks 8 an<br>Tank 8 is fixed roof 387,580 | Unit Addressed in This Section (lid 12) gallons capacity, constructed in gallons capacity, constructed | n 01/67                                       |
| 2 Emissions Unit Identification                             | on Number:[ ]No Correspondir   | ng ID [x] Unknown                             |
| 2. Limssions out identification                             | on realmost. [ ]rea corresponding  | ig ID [A] Chkhown                             |
| 3. Emissions Unit Status<br>Code: A                         | 4. Acid Rain Unit? [ ] Yes [x ] No   | 5. Emissions Unit Major<br>Group SIC Code: 49 |
| 6. Emissions Unit Comment (                                 | limit to 500 characters):  |   |
|   |  |   |
|   | ,  |   |
|   |  |   |
|   |  |   |
|   |  |   |
|   |  |   |
|   |  |   |
| Emissions Unit Control Equi                                 | ipment   |   |
|   |  | •   |
| A.  1. Description (limit to 200 cl                         | haracters):  |   |
| 1. Description (minic to 200 c.                             | naracters).  |   |
|   |  |   |
|   |  |   |
|   |  | •   |
|   |  |   |
|   |  |   |
|   |  |   |
| 2. Control Device or Method                                 | Code:  |   |

| Emissions Unit Information Section9 of9 |  |  |  |
|---|--|--|--|
|   |  |  |  |
| <b>B</b> . 1.                           | Description (limit to 200 characters): |  |  |
|   |  |  |  |
| 2.                                      | Control Device or Method Code:         |  |  |
| <b>C</b> .                              |  |  |  |
| 1.                                      | Description (limit to 200 characters): |  |  |
| 2.                                      | Control Device or Method Code:         |  |  |

| Emissions Unit Information Section9 of9  |
|--|
| D. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)   |
| Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.) |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
| ,  |
|  |

| Emissions Unit Information Section | 9 | of | 9 |  |
|------------------------------------|---|----|---|--|
|------------------------------------|---|----|---|--|

<u>List of Applicable Regulations</u> (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

| Federal: None               |  |
|-----------------------------|--|
| State: 62-213.420(3) F.A.C. | Title V reportable quantities of all known and suspected emissions sources |
| 62-296.320, F.A.C.          | General Pollutant Emissions Limiting<br>Standards                          |
| Title V Core List (3/25/96) | Presumptively Applicable (Federal & State)                                 |
| Local: None                 |  |
|                             |  |
|                             |  |
|                             |  |
|                             |  |

| <b>Emissions Unit Information Section</b> | 9 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

# E. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

### **Emission Point Description and Type**

| 1. | Identification of Point on Plot Plan or Flow Diagram: T-8,                            | T-12                             |
|----|---|----------------------------------|
| 2. | Emission Point Type Code: [ ] 1   | ] 4                              |
| 3. | Descriptions of Emissions Points Comprising this Emissions 100 characters per point): | s Unit for VE Tracking (limit to |
| 4. | ID Numbers or Descriptions of Emission Units with this En                             | nission Point in Common:         |
| 5. | Discharge Type Code:         [ ] D  | [ ] P                            |
| 6. | Stack Height:   | feet                             |
| 7. | Exit Diameter:  | feet                             |
| 8. | Exit Temperature: 77  | °F                               |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 9 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

| acfm  |
|---|
| %   |
| dscfm   |
| feet  |
|   |
| North (km): 2943.7  |
| The VOC potential emissions from ank 12 are 392 lb/yr. The parameters |
|   |

| <b>Emissions</b> | Unit | Information | Section | 9 | of | 99 |
|------------------|------|-------------|---------|---|----|----|
|                  |      |             |         |   |    |    |

# F. SEGMENT (PROCESS/FUEL) INFORMATION (Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment \_1\_ of \_1\_

| Segment Description (Process/Fuel Type and Associated Operating Method/Mode)     (limit to 500 characters): |                              |  |  |  |  |
|---|------------------------------|--|--|--|--|
| Working loss and breathing loss from fixed roof   | storage tanks                |  |  |  |  |
| working ross and or earning ross from times rost  | ototugo tumo.                |  |  |  |  |
|   |                              |  |  |  |  |
|   |                              |  |  |  |  |
|   |                              |  |  |  |  |
|   |                              |  |  |  |  |
|   |                              |  |  |  |  |
|   |                              |  |  |  |  |
|   |                              |  |  |  |  |
|   |                              |  |  |  |  |
|   |                              |  |  |  |  |
|   |                              |  |  |  |  |
|   |                              |  |  |  |  |
|   |                              |  |  |  |  |
|   |                              |  |  |  |  |
| 2. Source Classification Code (SCC):  |                              |  |  |  |  |
| (See Comments Section)  |                              |  |  |  |  |
| 3. SCC Units: 1000 gallons throughput   |                              |  |  |  |  |
|   |                              |  |  |  |  |
| 4. Maximum Hourly Rate:   | 5. Maximum Annual Rate:      |  |  |  |  |
|   |                              |  |  |  |  |
| 6. Estimated Annual Activity Factor: See Segr   | ment Comment                 |  |  |  |  |
| ar zamimoz szimim szemeny s meteri sze segi   |                              |  |  |  |  |
| 7. Maximum Percent Sulfur:  | 8. Maximum Percent Ash:      |  |  |  |  |
| 7. Waximum Fercent Sunur.   | o. Waxiiidiii i ercent Asii. |  |  |  |  |
| O. M. W Dr  |                              |  |  |  |  |
| 9. Million Btu per SCC Unit:  |                              |  |  |  |  |
|   |                              |  |  |  |  |
| 10. Segment Comment (limit to 200 characters):  |                              |  |  |  |  |
| 40301021 Distillate Fuel #2 Fixed Roof Working Loss   |                              |  |  |  |  |
| 40301019 Distillate Fuel #2 Fixed Roof Breathing Loss   |                              |  |  |  |  |
|   |                              |  |  |  |  |
|   |                              |  |  |  |  |
| Tank Capacities   |                              |  |  |  |  |
| Tank 8 - 387,580 Gallons #6 Oil   |                              |  |  |  |  |
| , , , , , , , , , , , , , , , , , , ,   |                              |  |  |  |  |
| Tank 12 - 140,785 Gallons #2 Oil  |                              |  |  |  |  |
|   |                              |  |  |  |  |
| ·   |                              |  |  |  |  |
|   |                              |  |  |  |  |

DEP Form No. 62-210.900(1) - Form

| <u>Se</u> | gment Description and Rate: Segment   | of                      |  |  |  |
|-----------|---|-------------------------|--|--|--|
| 1.        | <ol> <li>Segment Description (Process/Fuel Type and Associated Operating Method/Mode)<br/>(limit to 500 characters):</li> </ol> |                         |  |  |  |
|           |   |                         |  |  |  |
|           |   |                         |  |  |  |
|           |   |                         |  |  |  |
| 2.        | Source Classification Code (SCC):   |                         |  |  |  |
| 3.        | SCC Units:  | ,                       |  |  |  |
| 4.        | Maximum Hourly Rate:  | 5. Maximum Annual Rate: |  |  |  |
| 6.        | Estimated Annual Activity Factor:   |                         |  |  |  |
| 7.        | Maximum Percent Sulfur:   | 8. Maximum Percent Ash: |  |  |  |
| 9.        | Million Btu per SCC Unit:   |                         |  |  |  |
| 10        | . Segment Comment (limit to 200 characters  | ):                      |  |  |  |
|           |   |                         |  |  |  |
|           |   |                         |  |  |  |
|           |   |                         |  |  |  |
|           |   |                         |  |  |  |

Emissions Unit Information Section \_\_\_9\_\_ of \_\_\_9\_\_

DEP Form No. 62-210.900(1) - Form

# G. EMISSIONS UNIT POLLUTANTS (Regulated and Unregulated Emissions Units)

| 1. Pollutant Emitted | Primary Control     Device Code | 3. Secondary Control Device Code | 4. Pollutant Regulatory Code |
|----------------------|---------------------------------|----------------------------------|------------------------------|
| VOC                  |                                 |                                  | NS                           |
|                      |                                 |                                  |                              |
|                      |                                 |                                  |                              |
|                      |                                 |                                  |                              |
|                      |                                 |                                  |                              |
| ,                    |                                 |                                  |                              |
|                      |                                 |                                  |                              |
|                      |                                 |                                  |                              |
|                      |                                 |                                  |                              |
|                      |                                 |                                  |                              |
|                      |                                 |                                  |                              |
|                      |                                 |                                  |                              |
|                      |                                 |                                  |                              |
|                      |                                 |                                  |                              |
|                      |                                 |                                  |                              |
|                      |                                 |                                  |                              |
|                      |                                 |                                  |                              |
|                      |                                 |                                  |                              |
|                      |                                 |                                  |                              |

DEP Form No. 62-210.900(1) - Form

| <b>Emissions Unit Information Section</b> | 9 | of | 9 |  |
|---|---|----|---|--|
|---|---|----|---|--|

# H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only).

### **Pollutant Detail Information:**

| 1. | Pollutant Emitted: VOC  | -                            |                      |
|----|---|------------------------------|----------------------|
| 2. | Total Percent Efficiency of Control:  |                              | %                    |
| 3. | Potential Emissions:  | lb/hour                      | tons/year            |
| 4. | Synthetically Limited? [ ] Yes [X] No   |                              |                      |
| 5. | Range of Estimated Fugitive/Other Emis  [ ] 1 [ ] 2 [                                 |                              | 1 tons/year          |
| 6. | Emission Factor: EPA Tanks Program Reference: AP-42                                   |                              |                      |
| 7. | Emissions Method Code: [ ] 0  | [x] 3 [] 4                   | [ ] 5                |
| 8. | Calculation of Emissions (limit to 600 ch   | naracters):                  |                      |
| Se | ee Attached Printout Attachment F   |                              |                      |
|    |   |                              |                      |
|    |   |                              |                      |
|    |   |                              |                      |
|    |   |                              |                      |
|    |   |                              |                      |
| 9. | Pollutant Potential/Estimated Emissions   | Comment (limit to 200 charac | eters):              |
|    | nk potential emissions are based on the Fitts on fuel oil at maximum capacity for 8,7 |                              | erate all combustion |
|    | on at maintain supusity for o,  | . To mound your.             |                      |
|    |   |                              |                      |
|    |   |                              |                      |

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 9 | of | 9 |
|------------------------------------|---|----|---|
|------------------------------------|---|----|---|

## Allowable Emissions (Pollutant identified on front of page)

| A. |   |               |                             |
|----|---|---------------|-----------------------------|
| 1. | Basis for Allowable Emissions Code:                           |               |                             |
| 2. | Future Effective Date of Allowable Emissions:                 |               |                             |
| 3. | Requested Allowable Emissions and Units:                      |               |                             |
| 4. | Equivalent Allowable Emissions:                               | lb/hour       | tons/year                   |
| 5. | Method of Compliance (limit to 60 characters):                |               |                             |
|    | Pollutant Allowable Emissions Comment (Desc. 200 characters): | of Related Op | erating Method/Mode) (limit |
| В. |   |               |                             |
| 1. | Basis for Allowable Emissions Code:                           |               |                             |
| 2. | Future Effective Date of Allowable Emissions:                 |               |                             |
| 3. | Requested Allowable Emissions and Units:                      |               |                             |
| 4. |   | lb/hr         | tons/year                   |
| 5. | Method of Compliance (limit to 60 characters):                |               |                             |

Effective: 3-21-96

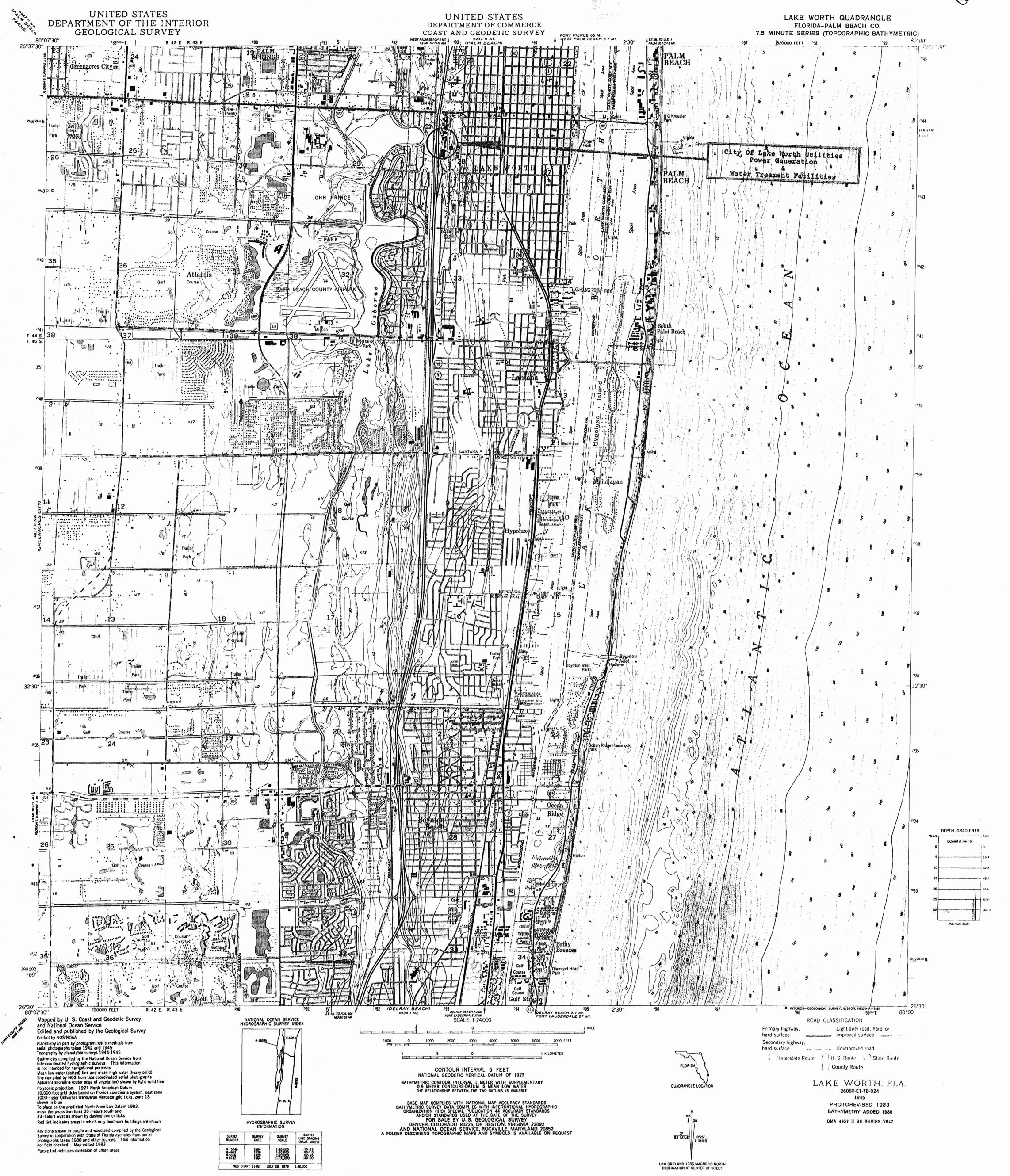
(limit to 200 characters):

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode)

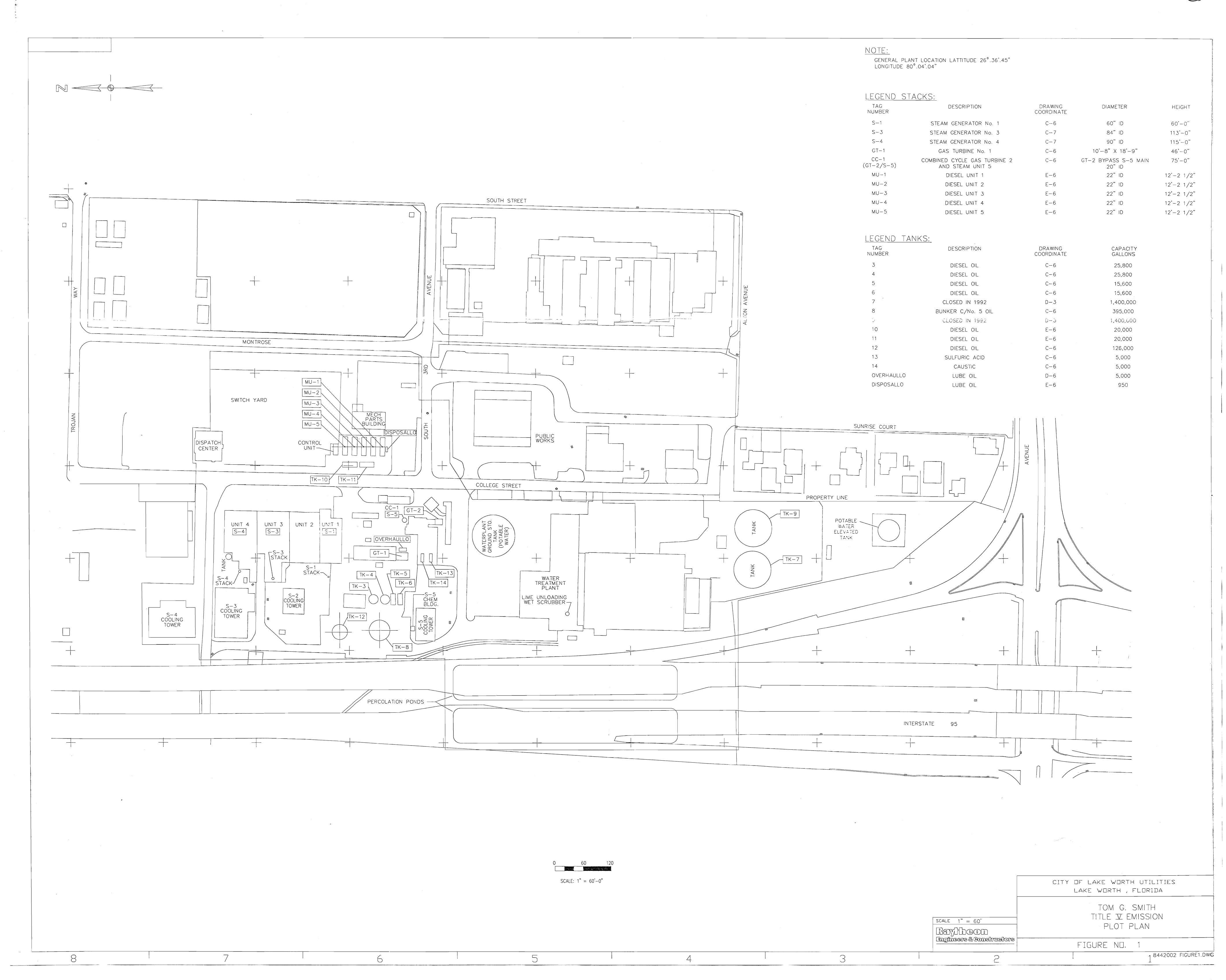
ATTACHMENT A

AREA MAP

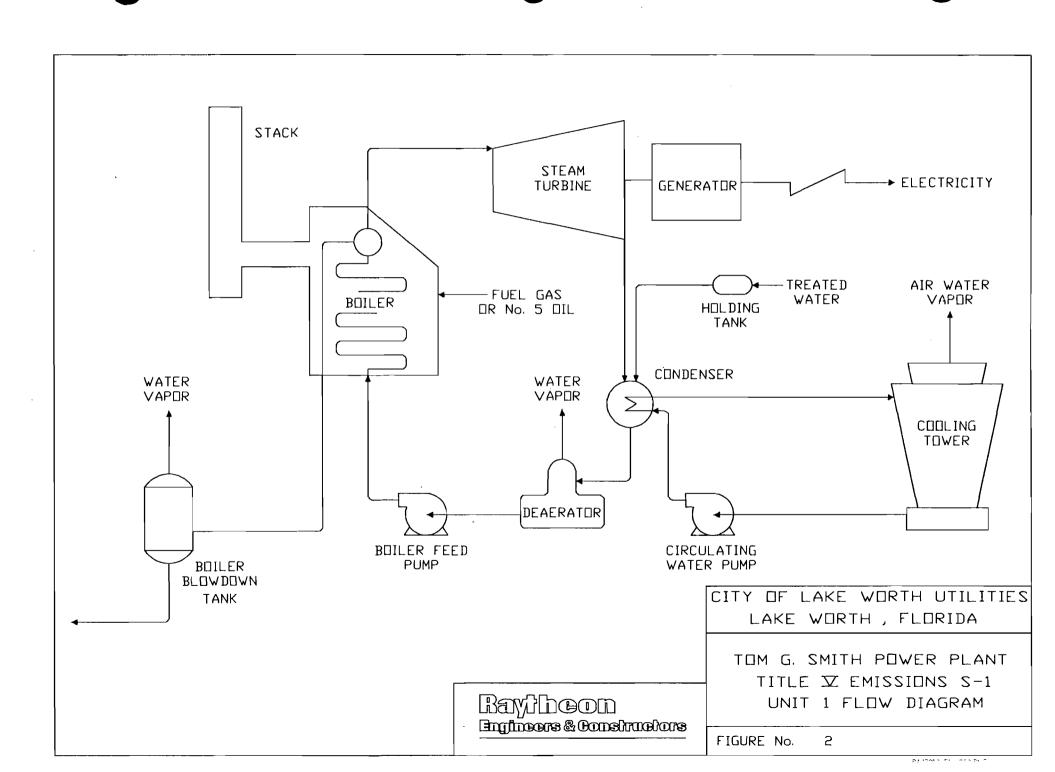
(In four Sections due to the largeness of the map)

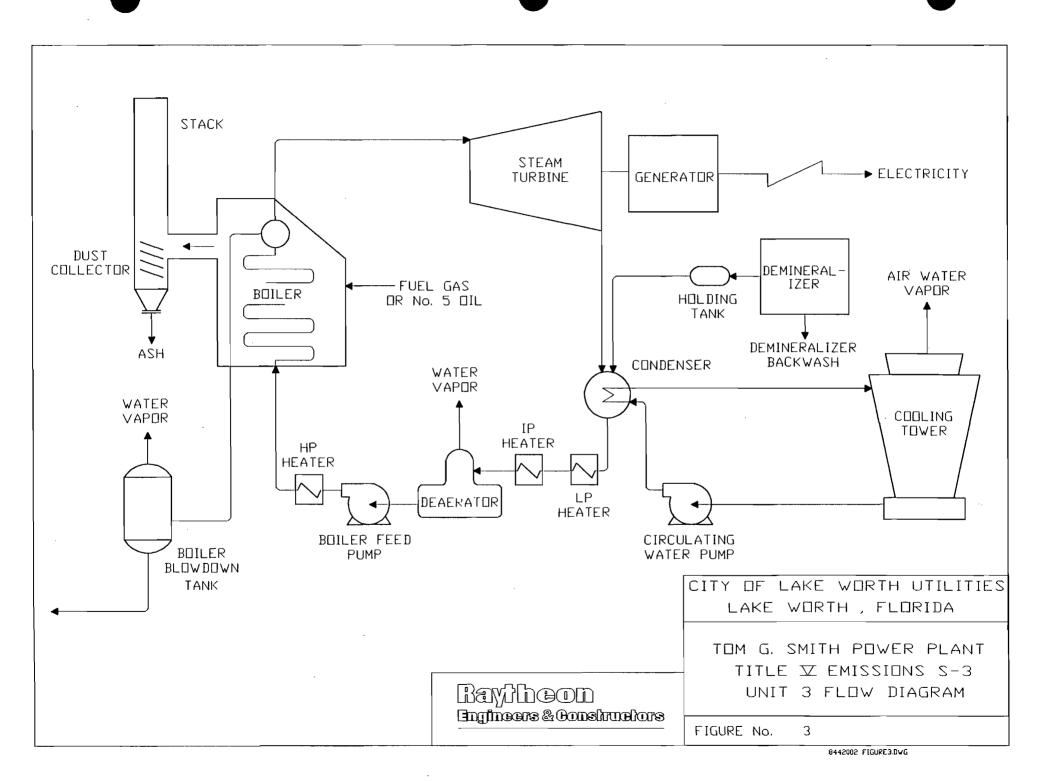


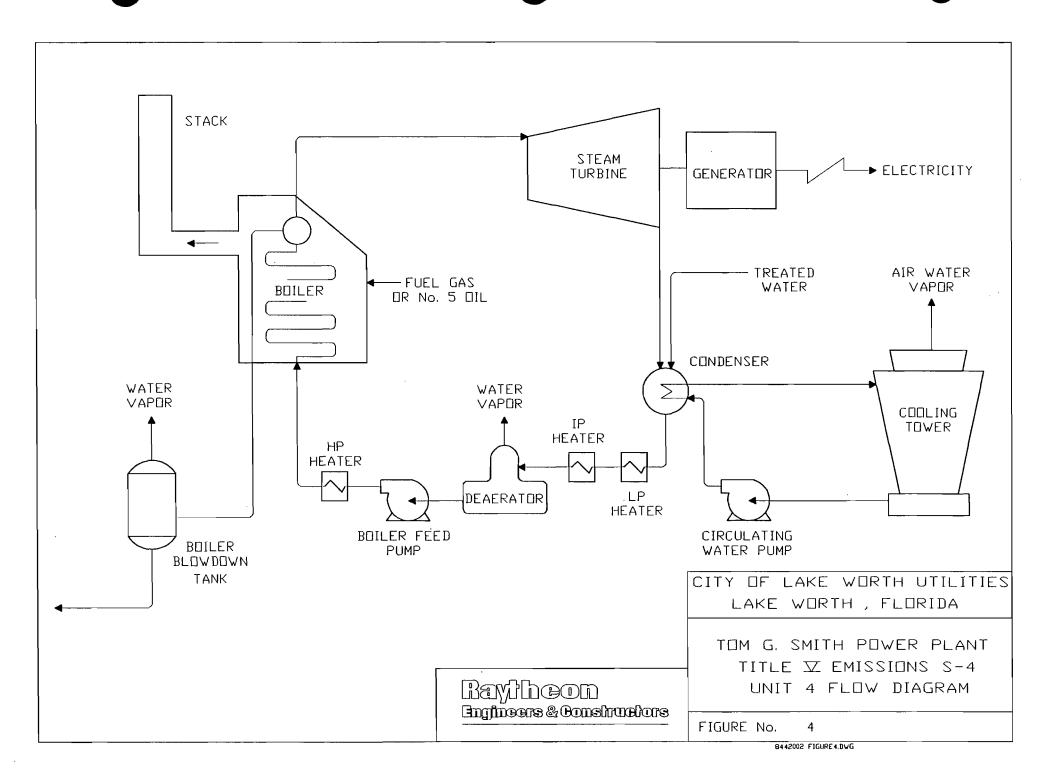
ATTACHMENT B
FACILITY PLOT PLAN

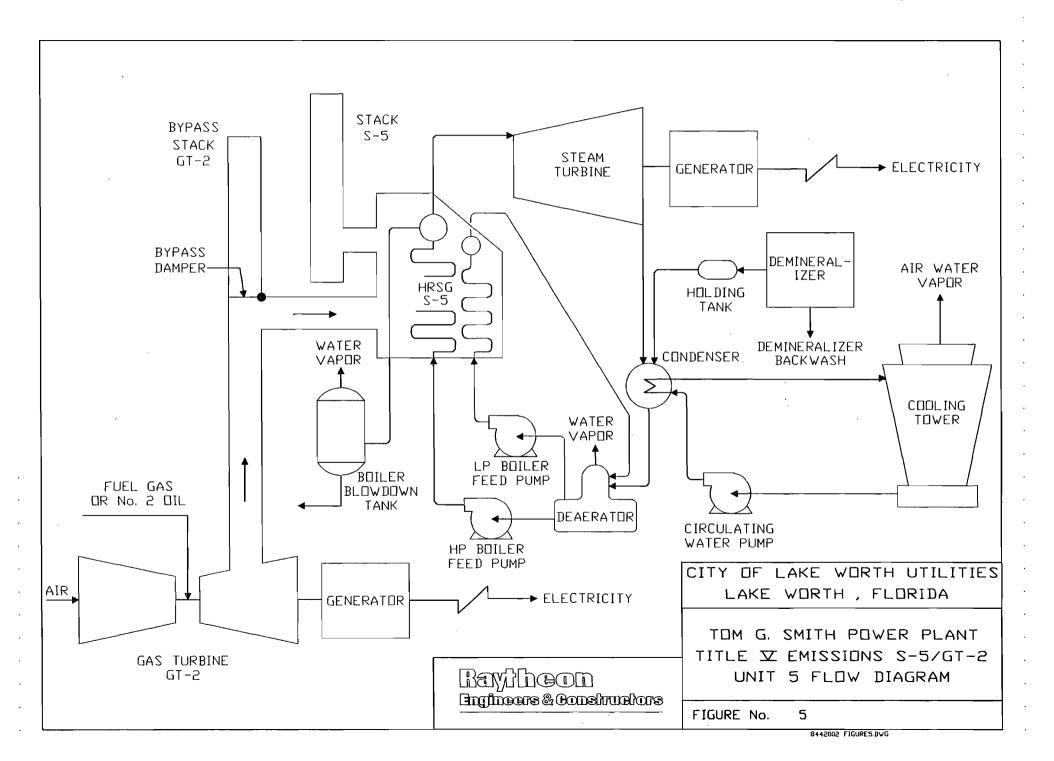


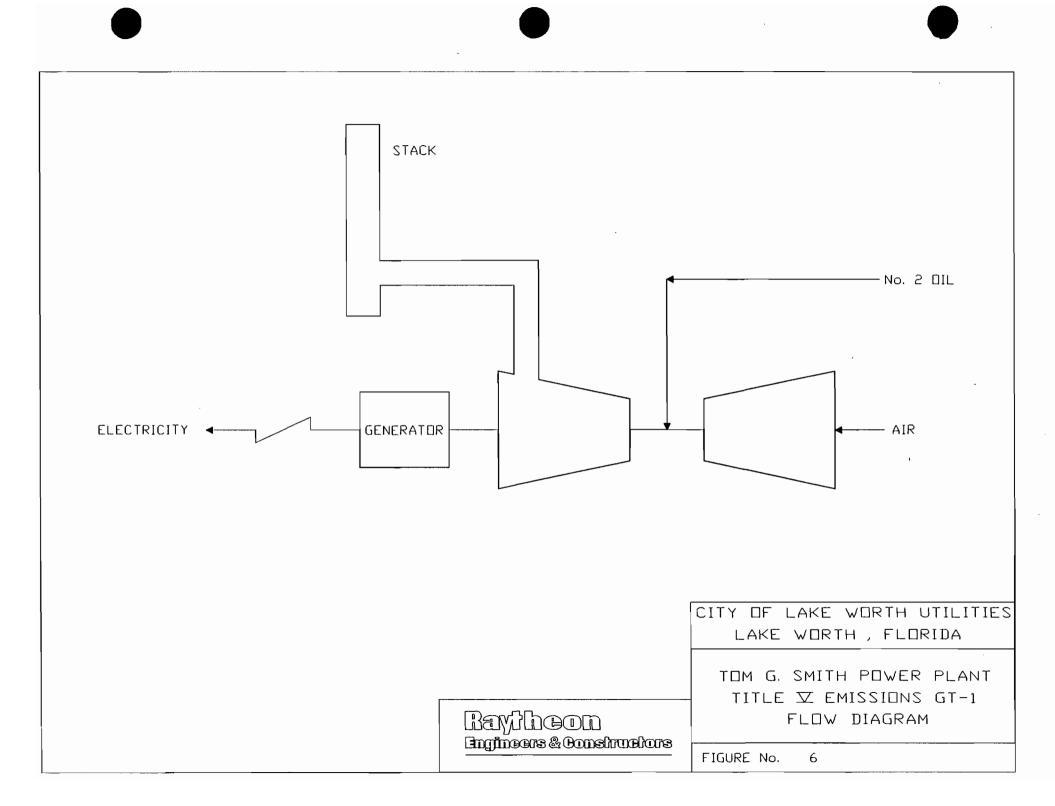
ATTACHMENT C
PROCESS FLOW DIAGRAMS

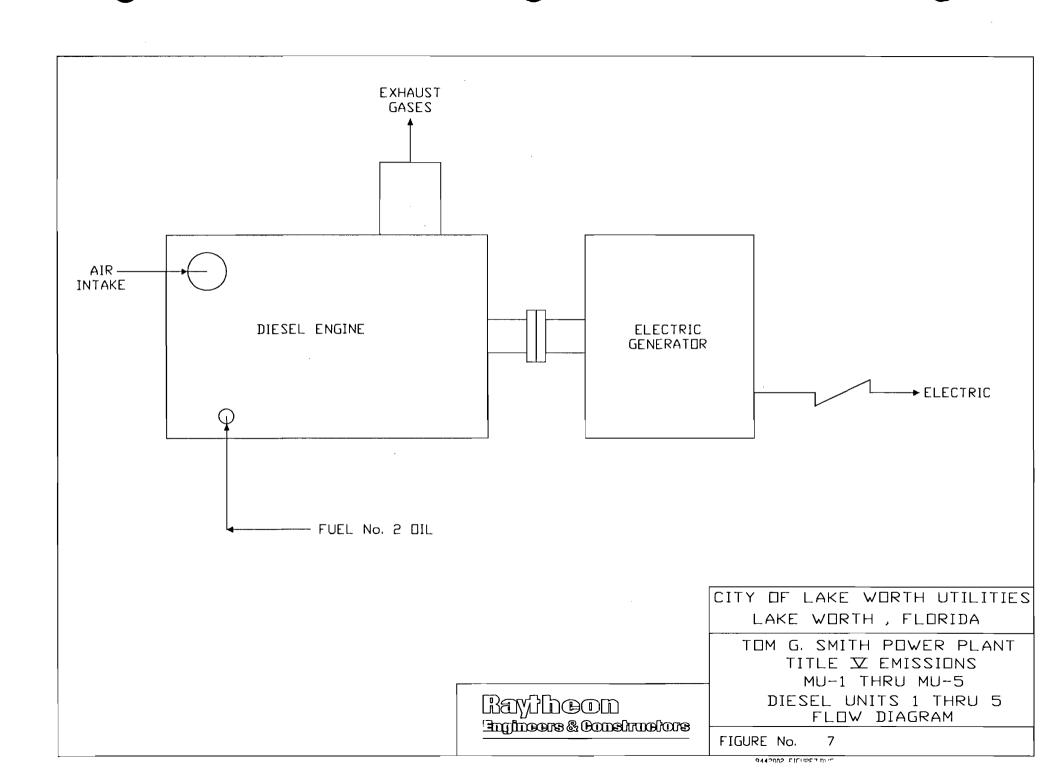












ATTACHMENT D

FUEL ANALYSES AND SPECIFICATION

### FLORIDA GAS TRANSMISSION COMPANY

Spot Analysis of Natural Gas for Delivery in Florida

DATE:

September 20, 1994

TIME: 11:41

| Component Name  | Mole &  |
|-----------------|---------|
| Hexane          | 0.078   |
| Propane         | 0.338   |
| Isobutane       | 0.081   |
| n-Butane        | . 0.076 |
| Isopentane      | 0.035   |
| n-Pentane       | 0.024   |
| Nitrogen        | 0.371   |
| Methane         | 96.065  |
| CO <sub>2</sub> | 0.729   |
| Ethane .        | 2.204   |
| Totals          | 100,000 |

Dry Btu/cf @ 14.730 psia and 60°F = 1033.8 Real Relative Density = 0.5829

Total Sulfur 0.12 Gr/Ccf
Total Sulfur D/S 0.35 Gr/Ccf
H<sup>2</sup>S 0.04 Gr/Ccf
H<sup>2</sup>O 4.5 lb/MMcf

TOM G. SMITH
CITY OF LAKE WORTH
ORIS CODE 673

| Post-It* Fax Note 7671 | Date (0   44 pages |
|------------------------|--------------------|
| To Steve Abel          | From Chris Snyder  |
| COLDOOK LWU            | CO FAUC            |
| Phone #                | Phono #            |
| Fax #                  | Fax #              |



CITY OF L

## LAKE WORTH

1900 2ND AVENUE NORTH LAKE WORTH, FLORIDA 33461-4298

UTILITIES DEPARTMENT

(407) 588-1666 FAX (407) 586-1702

June 8, 1995

Mr. Tom Tittle, Air Compliance Engineer Florida Department of Environmental Protection 1900 S. Congress Avenue West Palm Beach, FL 33402-3858

Subj: City of Lake Worth Utilities Quarterly Fuel Oil Analysis Reports First Quarter 1995 (Jan - Feb - Mar)

Dear Mr. Tittle:

Please find attached our quarterly fuel oil analysis as required by our operating permits. Included are quarterly reports for on site storage and as burned composites. Unit GT-2 burned oil during March for 1.0 hour. Unit S-3 burned oil during February for 8.0 hours.

Results for Units S-3 and GT-2/S-5

| Month | Unit       | Hours | <b>%</b> S |
|-------|------------|-------|------------|
| Jan   | S-3        | 0.0   | NA         |
| Feb   | S-3        | 8.0   | 1.75       |
| Mar   | <b>S-3</b> | 0.0   | NA         |
| Jan   | GT-2       | 0.0   | NA         |
| Feb   | GT-2       | 0.0   | NA         |
| Mar   | GT-2       | 1.0   | 0.10       |

The results of the quarterly samples for each type fuel oil are below:

| Type | Date     | <b>%</b> S |
|------|----------|------------|
| No.2 | 04/01/95 | 0.10       |
| No.6 | 04/01/95 | 1.76       |

Quarterly Fuel Oil Analysis Report June 8, 1995 Page 2

The results indicate the oil is within our permit limits of 0.35% sulfur for No. 2 oil and 2.25% sulfur for No. 6 oil.

If you need more information please let me know.

Sincerely,

CITY OF LAKE WORTH UTILITIES

William C. Michael

Mechanical Systems Engineer

Attachments

cc: A.J. Satyal, P.B.C.H.D.

Margaret Johnstone, Environmental Compliance Officer Jerry Schroader, Assistant Power Plant Superintendent Steve Abel, System Operation Superintendent Joe Brockway, Power Plant



**Best Available Copy** 

LABORATORY ANALYSIS REPORT

CUSTOMER REF. NO(S): P.O. #97407/

DATE: 04/06/95

LABORATORY NO.: 95-346

**INVOICE NO.:FE-6300A** 

ORT EVERGLADES, FL OFFICE \_\_\_

DESCRIPTION

Sample designated as: NO.6 FUEL OIL

Identifying Marks: SUBMITTED SAMPLE DATED 04/01/95 (QUARTERLY) AT CITY OF LAKE WORTH LAKE WORTH, FLORIDA

Submitted by:

CITY OF LAKE WORTH

Client:

NOTHER LY INTEGE

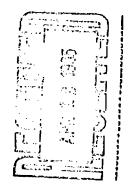
CITY OF LAKE WORTH

#### NOTES

- This laboratory report may not be published or used except in full. It shall not be used in connection with any form of advertising unless written consent is received from an officer of SAYBOLT INC.
- Results were based on analysis made at the time samples were received at the laboratory.
- Samples, if any, shall be retained for a period of 45 days unless a longer period is requested in writing.
- Sample nomenclature is designated by the customer.

**ANALYSIS** 

| TEST                           | METHOD | RESULT    |
|--------------------------------|--------|-----------|
| API GRAVITY @ 60 DEG.F         | D 1298 | 18.5      |
| SPECIFIC GRAVITY @ 60 DEG.F    | D 1298 | .9433     |
| SULFUR, X-RAY WT.%             | D 4294 | 1.76      |
| HEAT OF COMBUSTION, BTU/Lb     | D 4863 | 18,529    |
| HEAT OF COMBUSTION, BTU/Gallon | D 4863 | 145,564   |
| HEAT OF COMBUSTION, BTU/Bbls   | D 4863 | 6,113,388 |
| ASH, WT.%                      | D 3228 | 0.071     |



MEMBERS ASTM-API-SAE

This report is issued solely for the use of our customers and supplies only information they specifically requested. There may be other relevant information which has not been reported. Saybolt will not be responsible to third partiems or the contents of this report or for any omission therefrom.

ADMINISTRATION

ORT EVERGLADES, FL OFFICE

DATE: 04/06/95

REF. NO(S): P.O. #97407/

CUSTOMER

LABORATORY NO.: 95-344

INVOICE NO.:FE-6300A

#### DESCRIPTION

Sample designated as: NO.2 FUEL OIL

Identifying Marks: SUBMITTED SAMPLE DATED 04/01/95 (QUARTERLY) AT CITY OF LAKE WORTH LAKE WORTH, FLORIDA

Submitted by: CITY OF LAKE WORTH

Client: CITY OF LAKE WORTH

#### **NOTES**

- This laboratory report may not be published or used except in full. It shall not be used in connection with any form of advertising unless written consent is received from an officer of SAYBOLT INC.
- Results were based on analysis made at the time samples were received at the laboratory.
- Samples, if any, shall be retained for a period of 45 days unless a longer period is requested in writing.
- Sample nomenclature is designated by the customer.

#### **ANALYSIS**

| <u>TEST</u>                    | METHOD | RESULT    |
|--------------------------------|--------|-----------|
| API GRAVITY @ 60 DEG.F         | D 1298 | 33.6      |
| SPECIFIC GRAVITY @ 60 DEG.F    | D 1298 | .8571     |
| SULFUR, X-RAY WT.%             | D 4294 | 0.10      |
| HEAT OF COMBUSTION, BTU/Lb     | D 4863 | 19,528    |
| HEAT OF COMBUSTION, BTU/Gallon | D 4863 | 139,352   |
| HEAT OF COMBUSTION, BTU/Bbls   | D 4863 | 5,852,784 |
| ASH, WT.%                      | D 3228 | 0.0011    |

MEMBERS ASTM-API-SAE

This report is issued solely for the use of our customers and supplies only information they specifically requested. There may be other relevant information which has not been reported. Saybolt will not be responsible to pr the contents of this report or for any omission there third peril

SAYBOLT INC.

SAYBOLT INC.



CUSTOMER REF. NO(S): P.O. #97407/ LABORATORY ANALYSIS HER UNIT

P. 25.

ORT EVERGLADES, FL OFFICE \_\_\_\_

DATE: 04/06/95

LABORATORY NO.: 95-345

INVOICE NO.:FE-6300A

DESCRIPTION

Sample designated as: NO.2 FUEL OIL

Identifying Marks: SUBMITTED SAMPLE DATED 3/27/95 (V.E.CGT-2-S-5) AT CITY OF LAKE WORTH LAKE WORTH, FLORIDA

Submitted by: CITY OF LAKE WORTH

Client:

CITY OF LAKE WORTH

#### NOTES

- This laboratory report may not be published or used except in full. It shall not be used in connection with any form of advertising unless written consent is received from an officer of SAYBOLT INC.
- Results were based on analysis made at the time samples were received at the laboratory.
- Samples, if any, shall be retained for a period of 45 days unless a longer period is requested in writing.
- Sample nomenclature is designated by the customer.

| ANALYSIS |   |
|----------|---|
|          | - |

**Best Available Copy** 

| TEST                           | METHOD | RESULT    |
|--------------------------------|--------|-----------|
| API GRAVITY @ 60 DEG.F         | D 1298 | 33.6      |
| SPECIFIC GRAVITY @ 60 DEG.F    | D 1298 | .8571     |
| SULFUR, X-RAY WT.%             | D 4294 | 0.10      |
| HEAT OF COMBUSTION, BTU/Lb     | D 4863 | 19,528    |
| HEAT OF COMBUSTION, BTU/Gallon | D 4863 | 139,352   |
| HEAT OF COMBUSTION, BTU/Bbls   | D 4863 | 5,852.784 |
| ASH, WT.%                      | D 3228 | 0.0010    |

MEMBERS ASTM-API-SAE

This report is issued solely for the use of our customers and supplies only information they specifically requested. There may be other relevant information which has not been reported. Saybolt will not be responsible to third partisment the contents of this report or for any omission therefcom.

SAYBULT INC.

PORT EVERGLADES, FL OFFICE \_\_\_\_

CUSTOMER Best Available Copy REF. NO(S):P.O.#96979/

DATE: 03/02/95

LABORATORY NO.: 95-215

INVOICE NO.:FE-6252A

#### DESCRIPTION

Sample designated as: NO.6 FUEL OIL

P.07

1702

NOT THAT BININGH

JTILITIES

Identifying Marks:
SUBMITTED QTRLY SAMPLE
S3 BOILER DATED 2/06/95 A, hurned
AT CITY OF LAKE WORTH
LAKE WORTH, FLORIDA

Submitted by:
CITY OF LAKE WORTH

Client: CITY OF LAKE WORTH

#### **NOTES**

- This laboratory report may not be published or used except in full.
   It shall not be used in connection with any form of advertising unless written consent is received from an officer of SAYBOLT INC.
- Results were based on analysis made at the time samples were received at the laboratory.
- Samples, if any, shall be retained for a period of 45 days unless a longer period is requested in writing.
- Sample nomenclature is designated by the customer.

| IESI                               | METHOD | RESULT    |
|------------------------------------|--------|-----------|
| API GRAVITY @ 60 DEG.F             | D 1298 | 18.5      |
| SPECIFIC GRAVITY @ 60 DEG.F        | D 1298 | .9433     |
| ASH, WT.%                          | D 482  | 0.064     |
| SULFUR, X-RAY WT.%                 | D 4294 | 1.75      |
| HEAT OF COMBUSTION (BTU/LB) GROSS  | D 4868 | 18,494    |
| HEAT OF COMBUSTION (BTU/GAL) GROSS | D 4868 | 145,289   |
| HEAT OF COMBUSTION (BTU/Bbl) GROSS | D 4868 | 6,102,138 |

**ANALYSIS** 

MEMBERS ASTM-API-SAE

This report is issued solely for the use of our customers and supplies only information they specifically requested. There may be other relevant information which has not been reported. Saybolt will not be responsible to third parties for the contents of this report or for any unission therefrom.

15

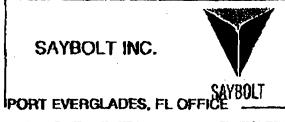
SAYBOLT THE.

E OK

APR R

**Best Available Copy** 

SAYBOLT INC.



REF. NO(S):#97407/

**DATE: 04/20/95** 

CUSTOMER

LABORATORY ANALYSIS REPORT

LABORATORY NO.:

**INVOICE NO.:FE-6329A** 

**ANALYSIS** 

Sample designated as: NO.6 FUEL OIL

Identifying Marks: SUBMITTED SAMPLE DATED 04/01/95 (QUARTERLY) AT CITY OF LAKE WORTH LAKE WORTH, FLORIDA

**DESCRIPTION** 

Submitted by: CITY OF LAKE WORTH

Client: CITY OF LAKE WORTH

#### **NOTES**

- This laboratory report may not be published or used except in full. It shall not be used in connection with any form of advertising unless written consent is received from an officer of SAYBOLT INC.
- Results were based on analysis made at the time samples were received at the laboratory.
- Samples, if any, shall be retained for a period of 45 days unless a longer period is requested in writing.
- Sample nomenclature is designated by the customer.

| IESI<br>CARBON | METHOD | RESULT<br>86.19 |
|----------------|--------|-----------------|
| HYDROGEN       |        | 11.83           |
| NITROGEN       |        | 0.30            |
| OXYGEN         |        | 0.18            |

MEMBERS ASTM-API-SAE

This report is issued solely for the use of our customers and supplies only information they specifically requested. There may be other There may be other relevant



ATTACHMENT E

STACK SAMPLING FACILITIES IDENTIFICATION

#### Attachment E Stack Sampling Facilities Description

Emission testing can be performed on all of the major emission units. However, on S-1, GT-1, CC-1, and MU-1 to MU-5 permanent platform structures do not exist. In order to perform emission tests on these units, a bucket truck is used to hoist personnel and equipment to the stack test port elevations. For the diesel engines, MU-1 to MU-5, temporary stack extensions are installed with sample ports to perform the emission tests. Access to the diesel engine stack is via a temporary ladder installed during the testing. On figures 8, 9, 10 and 11 the stack sampling locations are identified for S-1, GT-1, CC-1 and MU-1 to MU-5.

On S-3, a continuous emission monitoring system is installed. The continuous emission monitoring system equipment is serviced and tested from two permanently installed stack platforms, one at elevation 114'-0" and one at elevation 101'-6". Both platforms are accessible by a cagged ladder.

The stack configuration of the continuous emission monitoring system equipment and test ports on S-3 is presented on Drawing 8442-D-50004.

Emission Unit S-4 is currently in an extended shutdown. This unit has a stack test platform installed at elevation 97'-6". Access to the stack test platform is via a cagged ladder. The location of the S-4 stack test nozzles are shown on figure 12.

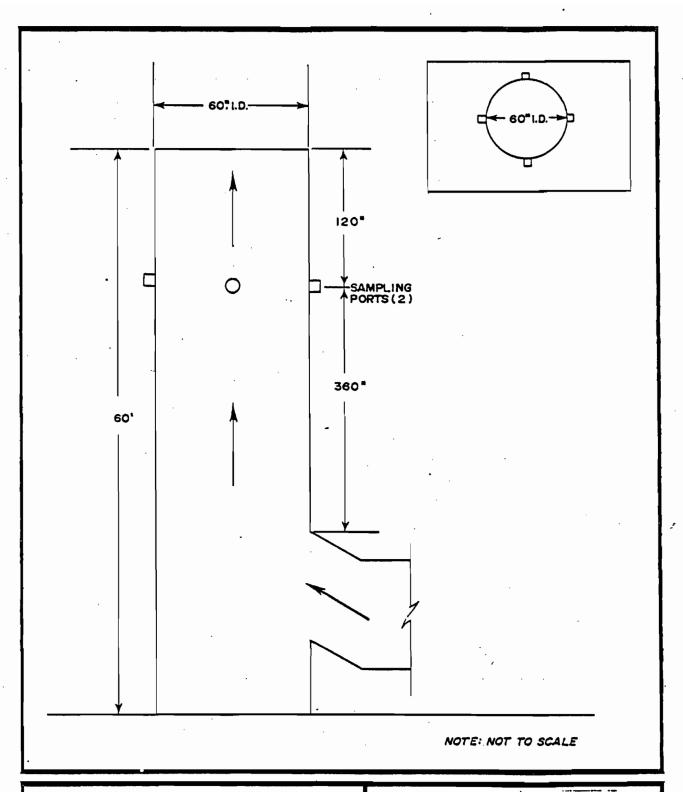


FIGURE 8 SAMPLING POINT LOCATION UNIT S-I LAKE WORTH UTILITIES LAKE WORTH, FLORIDA

AIR CONSULTING and ENGINEERING

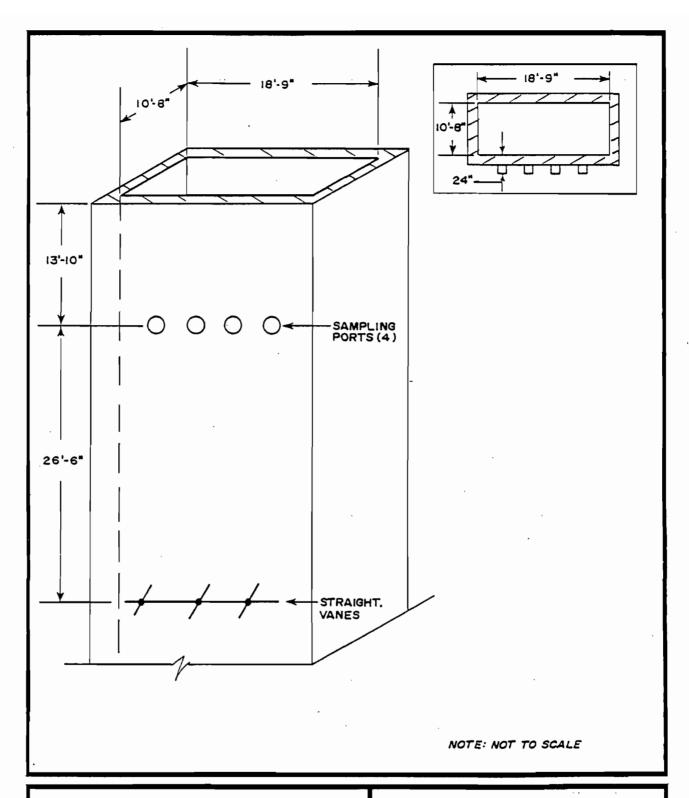


FIGURE 9 SAMPLING POINT LOCATION GAS TURBINE-UNIT I GT-1 LAKE WORTH UTILITIES LAKE WORTH, FLORIDA

AIR CONSULTING and ENGINEERING

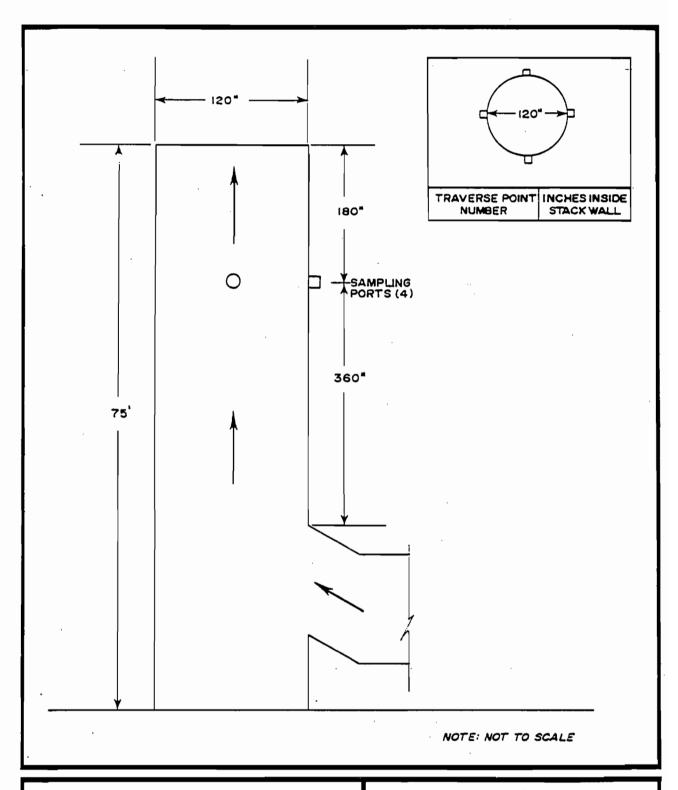


FIGURE 10\*
SAMPLING POINT LOCATION
COMBINED CYCLE UNIT | CC-1
LAKE WORTH UTILITIES
LAKE WORTH, FLORIDA

AIR CONSULTING and ENGINEERING

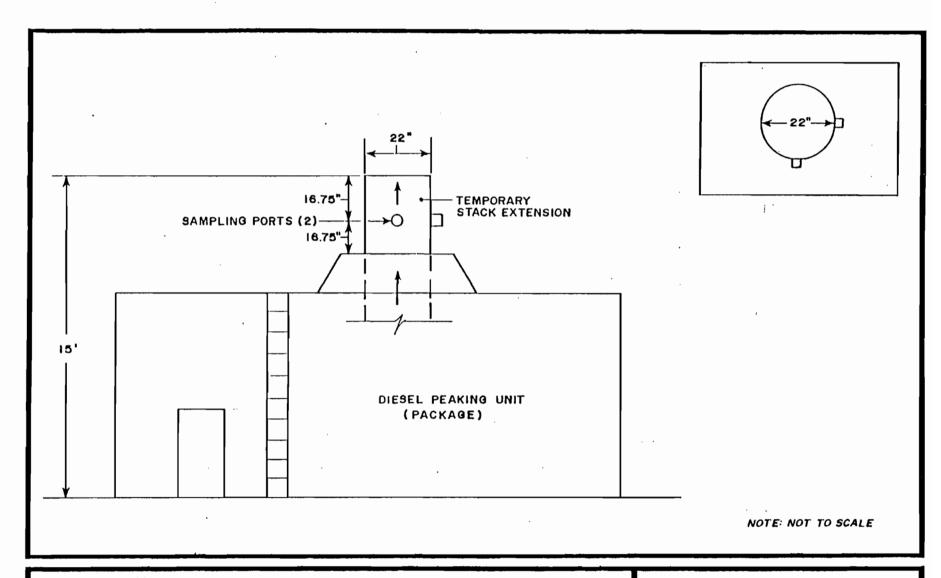
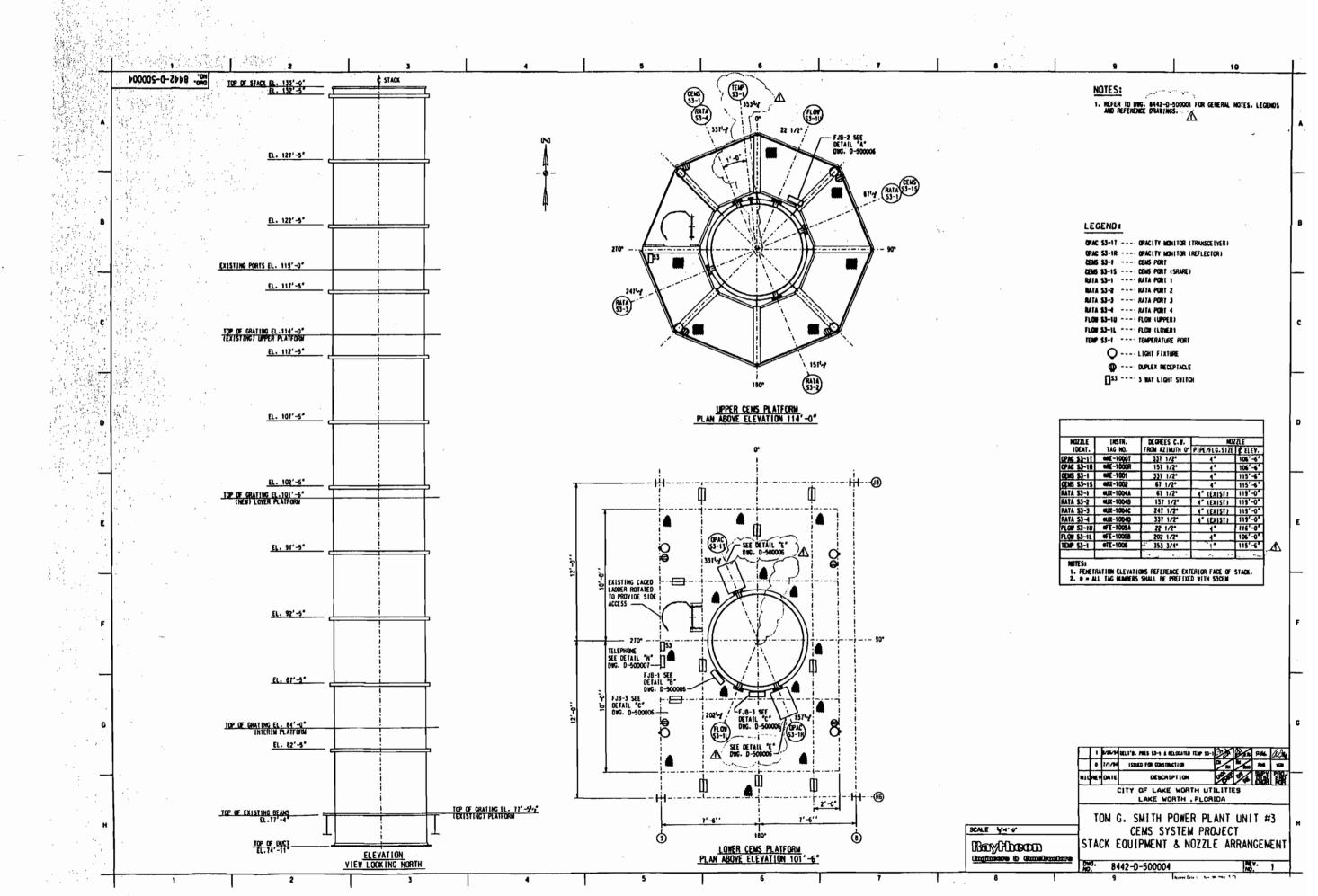


FIGURE 11
SAMPLING POINT LOCATION
M-UNIT MU-1 to MU-5
LAKE WORTH UTILITIES
LAKE WORTH, FLORIDA

AIR CONSULTING and ENGINEERING



- 90"." 270!" SAMPLING PORTS -(4) 79' NOTE: NOT TO SCALE

FIGURE 12
SAMPLING POINT LOCATION
UNIT 4 S-4
LAKE WORTH UTILITIES
LAKE WORTH, FLORIDA

# ATTACHMENT F FUGITIVE EMISSIONS IDENTIFICATION

#### **ATTACHMENT F**

#### CALCULATION OF FUGITIVE EMISSIONS FROM PIPING

Fugitive vapor emissions that result from the leaking of connections and seals in the fuel oil and lubrication oil piping systems throughout the plant were quantified. The components at the Tom G. Smith Power Plant contributing to these emissions are the following:

Pump Seals Valves Flange Joints Open-Ended Lines

#### **CALCULATIONAL METHODS**

The first step in quantifying the fugitive emissions from piping is to obtain a count of the above items. Rather than attempt to physically count these numerous components, their quantities can be estimated using estimating factors based on pump count. Equipment counts are estimated by multiplying the number of pumps in service by the appropriate factor. The factors are from "Improving Air Quality: Guidance for Estimating Fugitive Emissions from Equipment", published by the Chemical Manufacturers Association, 1989. The factors were based on counts obtained in the chemical processing industry, where piping configurations are often more complicated than in a typical power plant. It therefore is justifiable to use component count estimating factors from the "Low" column. These factors are as follows:

| Equipment Item   | Components per Liquid Pump |
|------------------|----------------------------|
| Pump             | 1                          |
| Valves           | 20                         |
| Flanges          | 59                         |
| Open Ended Lines | 0.25                       |

The pump count was obtained by examining process diagrams, conducting the plant walkdown and interviewing plant personnel. Spared pumps were not included in the count. Piping fugitive emissions are based on pump running times. Due to the difficulties associated with obtaining precise pump run times, the operating periods of the units is used instead. Therefore, the pump count is intended to reflect those pumps that continuously run while the various units run. This count was overstated somewhat to reflect the reduced run times of forwarding pumps that periodically cycle.

Fugitive emissions from piping are calculated using emissions factors found in Table 9.1-10 of AP-42. The factors depend on the designation of the fluid as "heavy" or "light". This classification is based on the vapor pressure of the liquid. Diesel, No. 6 fuel oil, and lube oil all qualify as heavy liquids. Along with component counts, pump run times are required for the calculation. As noted above, unit run times will be used as a surrogate for pump run times. Unit run times were taken from the 1994 and 1995 Annual Operating Reports. The resulting emissions for these two years were averaged to obtain actual emissions. The calculations and results are displayed in Table F-1.

TABLE 4-8.
CITY OF LAKE WORTH TOM G. SMITH POWER PLANT
TITLE V AIR PERMIT APPLICATION
ESTIMATION OF FUGITIVE VAPOR EMISSIONS FROM FUEL OIL PIPING

#### RAYTHEON ENGINEERS AND CONSTRUCTORS

| UNIT     | FUEL          | PUMP<br>COUNT | E |                | VALVE<br>COUNT | VALVE<br>EMISSIONS<br>(lb/hr)<br>F | FLANGE<br>COUNT<br>G | FLANGE<br>EMISSIONS<br>(lb/hr) | OPEN<br>ENDED<br>LINE<br>COUNT | OPEN ENDED LINE EMISSIONS (lb/hr) K | TOTAL PIPING FUGITIVE EMISSIONS (Ib/hr) L | 1984<br>OPERATING<br>HOURS<br>(hrs)<br>M | TOTAL 1994 PIPING FUGITIVE EMISSIONS (lb/yr) N | 1995<br>OPERATING<br>HOURS<br>(hrs)<br>O | TOTAL 1995 PIPING FUGITIVE EMISSIONS (lb/yr) P | AVERAGE<br>1884-95<br>PIPING<br>FUGITIVE<br>EMISSIONS<br>(lb/yr)<br>Q | AVERAGE 1994-95 PIPING FUGITIVE EMISSIONS (tons/yr) |
|----------|---------------|---------------|---|----------------|----------------|------------------------------------|----------------------|--------------------------------|--------------------------------|-------------------------------------|---|--|--|--|--|---|---|
|          | 410 E         |               |   | 046*A          | 20 * A         | .0006*D                            | 59°A<br>3 177        | .00056*G                       | .25 * A                        | .006*J                              | (C+F+I+K)                                 |  | L*M  |  | L*0  | AVG(N,P)  | AVG(N,P)/2000                                       |
| S-1      | NO. 5<br>LUBE |               | 1 | 0.138<br>0.046 | 60<br>20       |                                    |                      |                                |                                |                                     | 0.27087<br>0.09029                        |  |  |  |  |   |   |
| S-3      | NO. 6         |               | 3 | 0.138          | 60             | 0.0                                | 3 177                | 0.09912                        | 0.76                           | 0.00376                             | 0.27087                                   | 1497                                     | 405.49   | 2817                                     | 763.04   | 584.27  | 0.29  |
|          | LUBE          |               | 1 | 0.046          | 20             | 0.0                                | 1 69                 | 0.03304                        | 0.25                           | 0.00125                             | 0.09029                                   | 1497                                     | 135.16   | 2817                                     | 254.35   | 194.76  | 0.10  |
| GT-1     | NO. 2         |               | 2 | 0.092          | 40             |                                    |                      | _                              |                                |                                     | 0.18058                                   |  |  |  |  |   | 0.00  |
|          | LUBE          |               | 1 | 0.046          | 20             | 0.0                                | 1 69                 | 0.03304                        | 0.25                           | 0.00125                             | 0.09029                                   | 13                                       | 1.17   | 20                                       | 1.81   | 1.49  | 0.00  |
| GT-2/S-5 | NO. 2         |               | 1 | 0.046          | 20             | 0.0                                | 1 69                 | 0.03304                        | 0.25                           | 0.00125                             | 0.09029                                   | 7448                                     | 672.48   | 8276                                     | 566.57   | 619.52  | 0.31  |
|          | LUBE          |               | 1 | 0.048          | 20             | 0.0                                | 1 69                 | 0.03304                        | 0.25                           | 0.00125                             | 0.09029                                   | 7448                                     | 872.48   | 8276                                     | 586.67   | 619.52  | 0.31  |
| MU 1-6   | NO. 2         |               | 2 | 0.092          | 4              | 0.0                                | 2 118                | 0.08808                        | 0.6                            | 0.0026                              | 0.18068                                   | 60                                       | 9.03   | 679                                      | 104.56   | 56.79   | 0.03  |
| TOTAL    |               |               |   |                |                |                                    |                      |                                |                                |                                     |   | •  | 1910.45  | i  | 2281.81  | 2096.13   | 1.05  |

#### NOTES:

- 1. COMPONENT COUNT ESTIMATION IS PER "IMPROVING AIR QUALITY: GUIDANCE FOR ESTIMATING FUGITIVE EMISSIONS FORM EQUIPMENT", CHEMICAL MANUFACTURERS ASSICIATION, 1888.
  THE ABOVE ARE TAKEN FROM THE LOW COLUMN IN THE TABLE OF COMPONENTS PER LIQUID PUMP.
- 2. THE EMISSION FACTORS ARE TAKEN FROM THE TABLE OF AVERAGE SOCMI EMISSION FACTORS IN THE ABOVE REFERENCE.
- NO. 2 AND NO. 5 FUEL OILS AND THE LUBE OILS ARE TAKEN TO BE HEAVY LIQUIDS.
- 3. OPERATING HOURS ARE TAKEN FROM THE 1994 AND 1995 ANNUAL OPERATING REPORTS.

#### TANK EMISSIONS CALCULATIONS

The emissions from the liquid storage tanks on the plant site must be included in the emissions inventory. EPA has codified the calculational methods to be applied to the quantification of these emissions in its "Compilation of Air Pollutant Emission Factors: AP-42". Furthermore, EPA has published a program, TANKS2, incorporating these procedures. This program was used to calculate all significant tank emissions from the Tom G. Smith Plant.

The TANKS2 program requires the following data for each tank emission calculation:

The Tank Configuration (Vertical vs. Horizontal, Fixed vs. Floating Roof, Aboveground vs. Underground)

Tank Dimensions and Capacity

Maximum and Average Liquid Levels

Number of Turnovers and Throughput

Paint Characteristics

Breather Vent Settings

Meteorological Data

Physical Properties of Stored Liquid

The tank data were taken from materials supplied by plant personnel. Certain assumptions were applied to input data. These are listed later in this section.

#### **RESULTS OF TANK EMISSIONS ESTIMATIONS**

The data were processed by the TANKS2 program and estimates of annual VOC emissions were returned. Table F.1 shows the combustion units at the Tom G. Smith Plant, and dedicated fuel tanks that feed each unit. Table F.2 summarizes the results of the calculations for each tank.

#### Table F.1

| <u>Unit I.D.</u>        |              |
|-------------------------|--------------|
| Diesel Generators MU1-5 | 10 & 11      |
| Steam Unit 1 S-1        | 8            |
| Steam Unit 3 S-3        | 8            |
| Steam Unit 4 S-4        | 8            |
| Gas Turbine GT-1        | 3, 4, 5, & 6 |
| Combined Cycle CC-1     | 12           |

<u>Tank 1 of 3</u>

Table F.2 Results of Tank Emissons Estimations

| TANK NUMBER OR NAME | ANNUAL VOC EMISSIONS (lb/yr) |
|---------------------|------------------------------|
| No. 3               | 93                           |
| No. 4               | 93                           |
| No. 5               | 77                           |
| No. 6               | 77                           |
| No. 8               | 12                           |
| No. 10              | 63                           |
| No. 11              | 63                           |
| No. 12              | 392                          |
| 5000-gal Lube Oil   | 0.04                         |
| 950-gal Lube Oil    | 0.01                         |
| Total               | 870                          |

#### **ASSUMPTIONS**

The following assumptions were used in the inputs to the TANKS2 program:

The Liquid Height was assumed to be 2 ft. below the Shell Height.

The Avg. Liquid Height was assumed to be half the Liquid Height.

The slope of the coned roof was assumed to be .0625 ft./ft.

The closest available choice of paint color to the Medium Green colors of the tanks at the plant was assumed to be Medium Grey.

Shell and roof conditions were judged to be "Good".

Lube oils and No. 5 oil were modeled as No. 6 distillate fuel.

Due to the proximity of West Palm Beach to Lake Worth, meteorological data for West Palm Beach were used.

Theoretical tank throughputs were estimated to calculate potential emissions from each tank. For the fuel oil storage tanks, the potential emissions from the tanks would be created during the maximum use of fuel oil allowed. In this situation, the maximum capacity of each combustion unit, while operating on fuel oil for 8,760 hours per year determined the theoretical tank throughputs.

#### TANKS2 EMISSIONS REPORTS

The calculational documentation produced by the TANKS2 program for each of the tanks is presented in the following pages. The reports were produced in the detailed format, reproducing all input data, climatological data, property calculations, and standing, withdrawal, and total losses.

#### TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT TANK IDENTIFICATION AND PHYSICAL CHARACTERISTICS

07/11/95 PAGE 1

Identification

Identification No.:

Lake Worth

City: State:

FL

Company:

CITY OF LW/TOM G. SMITH PLANT

Type of Tank:

Vertical Fixed Roof

Tank Dimensions

Shell Height (ft): 11 20 Diameter (ft): 9 Liquid Height (ft): Avg. Liquid Height (ft): Volume (gallons): 21153 319 Turnovers: Net Throughput (gal/yr): 6749922

Paint Characteristics

Gray/Medium Shell Color/Shade: Shell Condition: Good

Gray/Medium Roof Color/Shade:

Roof Condition: Good

Roof Characteristics

Type: Cone 0.63 Height (ft):

0.00 Radius (ft) (Dome Roof): Slope (ft/ft) (Cone Roof): 0.0625

Breather Vent Settings

-0.03 Vacuum Setting (psig): 0.03 Pressure Setting (psig):

Meteorological Data Used in Emission Calculations: West Palm Beach, Florida

#### TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT LIQUID CONTENTS OF STORAGE TANK

07/11/95 PAGE 2

|                    | Liquia |
|--------------------|--------|
| Daily Liquid Surf. | Bulk   |

Vapor Liquid Vapor Temperatures (deg F) Temp. Vapor Pressures (psia) Mol. Mass Mass Mol. Basis for Vapor Pressure

Mixture/Component Month Avg. Min. Max. (deg F) Avg. Min. Max. Weight Fract. Fract. Weight Calculations

84.05 74.24 93.86 77.68 0.0138 0.0102 0.0185 130.000 Distillate fuel oil no. 2

130.00 Option 4: A=12.1010, B=8907.0

## TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT DETAIL CALCULATIONS (AP-42)

07/11/95 PAGE 3

| Annual  | Emission        | Calcu | lations |
|---------|-----------------|-------|---------|
| AIIIIUG | LIIII 33 I UI I | Cattu | ιαιιοιι |

| Tank Diameter (ft): Vapor Space Outage (ft): Tank Shell Height (ft): Average Liquid Height (ft): Roof Outage (ft): Roof Outage (Cone Roof) Roof Outage (ft): Roof Height (ft):   | 7.4071<br>64.56<br>.0003<br>68683<br>94742                  |
|--|---|
| Roof Outage (ft): Roof Height (ft): Roof Slope (ft/ft): 0.   | 64.56<br>20<br>7.21<br>11<br>4<br>0.21                      |
|  | 0.21<br>0.625<br>06250<br>10                                |
|  | .0003   |
| Surface Temperature (psia): 0.0 Daily Avg. Liquid Surface Temp.(deg. R): 5   | 13834<br>43.72<br>34.27                                     |
| Liquid Bulk Temperature (deg. R): 5 Tank Paint Solar Absorptance (Shell): Tank Paint Solar Absorptance (Roof): Daily Total Solar Insolation  | 0.731<br>37.35<br>0.68<br>0.68                              |
| Daily Vapor Temperature Range (deg.R): Daily Vapor Pressure Range (psia): Breather Vent Press. Setting Range(psia): Vapor Pressure at Daily Average Liquid   | 68683<br>39.26<br>08256<br>0.06                             |
| Surface Temperature (psia):  Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):  Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):  Daily Avg. Liquid Surface Temp. (deg R): Daily Min. Liquid Surface Temp. (deg R): Daily Max. Liquid Surface Temp. (deg R):  Daily Max. Liquid Surface Temp. (deg R):  5 | 13834<br>10239<br>18495<br>43.72<br>33.91<br>53.53<br>16.50 |

#### TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT DETAIL CALCULATIONS (AP-42)

07/11/95 PAGE 4

| Annual Emission Calculations           |            |
|--|------------|
| Vented Vapor Saturation Factor         |            |
| Vented Vapor Saturation Factor:        | 0.994742   |
| Vapor Pressure at Daily Average Liquid |            |
| Surface Temperature (psia):            | 0.013834   |
| Vapor Space Outage (ft):               | 7.21       |
| Withdrawal Losses (lb):                | 75.3465    |
| Vapor Molecular Weight (lb/lb-mole):   | 130.000000 |
| Vapor Pressure at Daily Average Liquid |            |
| Surface Temperature (psia):            | 0.013834   |
| Annual Net Throughput (gal/yr):        | 6749922    |
| Turnover Factor:                       | 0.2607     |
| Maximum Liquid Volume (cuft):          | 2827       |
| Maximum Liquid Height (ft):            | 9          |
| Tank Diameter (ft):                    | 20         |
| Working Loss Product Factor:           | 1.00       |
| Total Losses (lb):                     | 92.75      |

#### TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT INDIVIDUAL TANK EMISSION TOTALS

07/11/95 PAGE 5

#### Annual Emissions Report

|                           | Losses (lb |                |       |  |
|---------------------------|------------|----------------|-------|--|
| Liquid Contents           | Standing   | Withdrawal     | Total |  |
| Distillate fuel oil no. 2 | 17.41      | 75.35          | 92.75 |  |
| Total:                    | 17.41      | 75. <b>3</b> 5 | 92.75 |  |

#### TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT TANK IDENTIFICATION AND PHYSICAL CHARACTERISTICS

07/11/95 PAGE 1

Identification

Identification No.:

City:

Lake Worth

State: FL

CITY OF LW/TOM G. SMITH PLANT Company:

Type of Tank: Vertical Fixed Roof

Tank Dimensions

11 Shell Height (ft): 20 Diameter (ft): Liquid Height (ft): 9 Avg. Liquid Height (ft): Volume (gallons): 21153 Turnovers: 319 Net Throughput (gal/yr): 6749922

Paint Characteristics

Shell Color/Shade: Gray/Medium Shell Condition: Good Roof Color/Shade: Gray/Medium

Roof Condition: Good

Roof Characteristics

Type: Cone

Height (ft): 0.63 Radius (ft) (Dome Roof): 0.00 0.0625 Slope (ft/ft) (Cone Roof):

Breather Vent Settings

-0.03 Vacuum Setting (psig): Pressure Setting (psig): 0.03

Meteorological Data Used in Emission Calculations: West Palm Beach, Florida

TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT LIQUID CONTENTS OF STORAGE TANK 07/11/95 PAGE 2

|                        |                     | Liquid                         |                 |                                    |
|------------------------|---------------------|--------------------------------|-----------------|------------------------------------|
|                        | Daily Liquid Surf.  | Bulk                           | Vapor Liquid V  | /apor                              |
|                        | Temperatures (deg F | ) Temp. Vapor Pressures (psia) | Mol. Mass M     | Mass Mol. Basis for Vapor Pressure |
| Mixture/Component Mont | Avg. Min. Max.      | (deg F) Avg. Min. Max.         | Weight Fract. F | ract. Weight Calculations          |

Distillate fuel oil no. 2 All 84.05 74.24 93.86 77.68 0.0138 0.0102 0.0185 130.000

130.00 Option 4: A=12.1010, B=8907.0

#### TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT DETAIL CALCULATIONS (AP-42)

07/11/95 PAGE 3

#### Annual Emission Calculations

| Standing Losses (lb): Vapor Space Volume (cu ft): Vapor Density (lb/cu ft): Vapor Space Expansion Factor: Vented Vapor Saturation Factor:   | 17.4071<br>2264.56<br>0.0003<br>0.068683<br>0.994742 |
|---|--|
| Tank Vapor Space Volume Vapor Space Volume (cu ft): Tank Diameter (ft): Vapor Space Outage (ft): Tank Shell Height (ft): Average Liquid Height (ft): Roof Outage (ft):  | 2264.56<br>20<br>7.21<br>11<br>4<br>0.21             |
| Roof Outage (Cone Roof) Roof Outage (ft): Roof Height (ft): Roof Slope (ft/ft): Shell Radius (ft):  | 0.21<br>0.625<br>0.06250<br>10                       |
| Vapor Density Vapor Density (lb/cu ft): Vapor Molecular Weight (lb/lb-mole): Vapor Pressure at Daily Average Liquid   | 0.0003<br>130.000000                                 |
| Surface Temperature (psia): Daily Avg. Liquid Surface Temp.(deg. R): Daily Average Ambient Temp. (deg. R): Ideal Gas Constant R   | 0.013834<br>543.72<br>534.27                         |
| (psia cuft /(lb-mole-deg R)): Liquid Bulk Temperature (deg. R): Tank Paint Solar Absorptance (Shell): Tank Paint Solar Absorptance (Roof): Daily Total Solar Insolation   | 10.731<br>537.35<br>0.68<br>0.68                     |
| Factor (Btu/sqftday): Vapor Space Expansion Factor Vapor Space Expansion Factor:  | 1438.00<br>0.068683                                  |
| Daily Vapor Temperature Range (deg.R): Daily Vapor Pressure Range (psia): Breather Vent Press. Setting Range(psia): Vapor Pressure at Daily Average Liquid  | 39.26<br>0.008256<br>0.06                            |
| Surface Temperature (psia): Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):  | 0.013834   |
| Vapor Pressure at Daily Maximum Liquid<br>Surface Temperature (psia):<br>Daily Avg. Liquid Surface Temp. (deg R):<br>Daily Min. Liquid Surface Temp. (deg R):<br>Daily Max. Liquid Surface Temp. (deg R):<br>Daily Ambient Temp. Range (deg.R): | 0.018495<br>543.72<br>533.91<br>553.53<br>16.50      |

#### TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT DETAIL CALCULATIONS (AP-42)

07/11/95 PAGE 4

| Annual Emission Calculations           |            |
|--|------------|
| Vented Vapor Saturation Factor         |            |
| Vented Vapor Saturation Factor:        | 0.994742   |
| Vapor Pressure at Daily Average Liquid |            |
| Surface Temperature (psia):            | 0.013834   |
| Vapor Space Outage (ft):               | 7.21       |
| Withdrawal Losses (lb):                | 75.3465    |
| Vapor Molecular Weight (lb/lb-mole):   | 130.000000 |
| Vapor Pressure at Daily Average Liquid |            |
| Surface Temperature (psia):            | 0.013834   |
| Annual Net Throughput (gal/yr):        | 6749922    |
| Turnover Factor:                       | 0.2607     |
| Maximum Liquid Volume (cuft):          | 2827       |
| Maximum Liquid Height (ft):            | 9          |
| Tank Diameter (ft):                    | 20         |
| Working Loss Product Factor:           | 1.00       |
| Total Losses (lh):                     | 92.75      |

#### TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT INDIVIDUAL TANK EMISSION TOTALS

07/11/95 PAGE 5

#### Annual Emissions Report

|                           | Losses (lb          |               |       |  |
|---------------------------|---------------------|---------------|-------|--|
| Liquid Contents           | Standing Withdrawal |               | Total |  |
| Distillate fuel oil no. 2 | 17.41               | 75.35         | 92.75 |  |
| Total:                    | 17.41               | <b>75.3</b> 5 | 92.75 |  |

#### TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT TANK IDENTIFICATION AND PHYSICAL CHARACTERISTICS

07/11/95 PAGE 1

Identification

Identification No.:

5

City: Lake Worth State:

Company:

CITY OF LW/TOM G. SMITH PLANT

Type of Tank: Horizontal Fixed Roof

Tank Dimensions

Shell Length (ft): 24

10 Diameter (ft):

Volume(gallons): 15600

Is tank underground? (Y/N): Turnovers:

433

Net Throughput (gal/yr): 6748560

Paint Characteristics

Shell Color/Shade:

Gray/Medium

Shell Condition: Good

Breather Vent Settings

Vacuum Setting (psig):

-0.03

Pressure Setting (psig):

0.03

Meteorological Data Used in Emission Calculations: West Palm Beach, Florida

07/11/95 PAGE 2

| Mixture/Component         |     | Temper | atures |       | Temp. |        | Pressures<br>Min. |        |         | Mass |        | Basis for Vapor Pressure<br>Calculations |
|---------------------------|-----|--------|--------|-------|-------|--------|-------------------|--------|---------|------|--------|--|
| Distillate fuel oil no. 2 | All | 84.05  | 74.24  | 93.86 | 77.68 | 0.0138 | 0.0102            | 0.0185 | 130.000 | <br> | 130.00 | Option 4: A=12.1010, B=8907.0            |



07/11/95 PAGE 3

| Standing Losses (lb):                     | 9.2202     |
|---|------------|
| Vapor Space Volume (cu ft):               | 1197.56    |
| Vapor Density (lb/cu ft):                 | 0.0003     |
| Vapor Space Expansion Factor:             | 0.068683   |
| Vented Vapor Saturation Factor:           | 0.996347   |
| vented vapor saturation ractor:           | 0.770347   |
| Tank Vapor Space Volume                   |            |
| Vapor Space Volume (cu ft):               | 1197.56    |
| Tank Diameter (ft):                       | 10         |
| Effective Diameter (ft):                  | 17         |
| Vapor Space Outage (ft):                  | 5.00       |
| Tank Shell Height (ft):                   | 24         |
|   |            |
| Vapor Density                             | 0.0007     |
| Vapor Density (lb/cu ft):                 | 0.0003     |
| Vapor Molecular Weight (lb/lb-mole):      | 130.000000 |
| Vapor Pressure at Daily Average Liquid    |            |
| Surface Temperature (psia):               | 0.013834   |
| Daily Avg. Liquid Surface Temp. (deg R):  | 543.72     |
| Daily Average Ambient Temp. (deg. R):     | 534.27     |
| Ideal Gas Constant R                      |            |
| (psia cuft /(lb-mole-deg R)):             | 10.731     |
| Liquid Bulk Temperature (deg R):          | 537.35     |
| Tank Paint Solar Absorptance:             | 0.68       |
| Daily Total Solar Insolation              |            |
| Factor (Btu/sqftday):                     | 1438.00    |
| Vapor Space Expansion Factor              |            |
| Vapor Space Expansion Factor:             | 0.068683   |
| Daily Vapor Temperature Range (deg R):    | 39.26      |
| Daily Vapor Pressure Range (psia):        | 0.008256   |
| Breather Vent Press. Setting Range(psia): | 0.06       |
| Vapor Pressure at Daily Average Liquid    | 0.00       |
| Surface Temperature (psia):               | 0.013834   |
| Vapor Pressure at Daily Minimum Liquid    | 01013034   |
| Surface Temperature (psia):               | 0.010239   |
| Vapor Pressure at Daily Maximum Liquid    | 01010237   |
| Surface Temperature (psia):               | 0.018495   |
| Daily Avg. Liquid Surface Temp. (deg R):  | 543.72     |
| Daily Min. Liquid Surface Temp. (deg R):  | 533.91     |
| Daily Max. Liquid Surface Temp. (deg R):  | 553.53     |
| Daily Ambient Temp. Range (deg.R):        | 16.50      |
| vally miliblent lemp. kange (deg.k):      | 10.50      |

## TANKS PROGRAM 2.0 EMISSIONS REPORT DETAIL FORMAT

07/11/95 PAGE 4

DETAIL CALCULATIONS (AP-42), CONT.

| Vented Vapor Saturation Factor  |            |
|---|------------|
| Vented Vapor Saturation Factor:                                       | 0.996347   |
| Vapor Pressure at Daily Average Liquid<br>Surface Temperature (psia): | 0.013834   |
| Vapor Space Outage (ft):  | 5.00       |
| Withdrawal Losses (lb):   | 68.2055    |
| Vapor Molecular Weight (lb/lb-mole):                                  | 130.000000 |
| Vapor Pressure at Daily Average Liquid                                |            |
| Surface Temperature (psia):   | 0.013834   |
| Annual Net Throughput (gal/yr):                                       | 6748560    |
| Turnover Factor:  | 0.2360     |
| Tank Diameter (ft):   | 10         |
| Working Loss Product Factor:  | 1.00       |
| Total Losses (lb):  | 77.43      |



07/11/95 PAGE 5

## Annual Emissions Report

|                           | Losses (lb |            |       |
|---------------------------|------------|------------|-------|
| Liquid Contents           | Standing   | Withdrawal | Total |
| Distillate fuel oil no. 2 | 9.22       | 68.21      | 77.43 |
| Total:                    | 9.22       | 68.21      | 77.43 |

#### TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT TANK IDENTIFICATION AND PHYSICAL CHARACTERISTICS

07/11/95 PAGE 1

Identification

Identification No.:

City:

Lake Worth

State:

Company:

CITY OF LW/TOM G. SMITH PLANT

Type of Tank: Horizontal Fixed Roof

Tank Dimensions

24 Shell Length (ft): 10 Diameter (ft): 15600 Volume(gallons): Is tank underground? (Y/N): Turnovers: 433 6748560 Net Throughput (gal/yr):

Paint Characteristics

Shell Color/Shade:

Gray/Medium

Shell Condition:

Good

Breather Vent Settings

-0.03 Vacuum Setting (psig): Pressure Setting (psig): 0.03

Meteorological Data Used in Emission Calculations: West Palm Beach, Florida

07/11/95 PAGE 2

Liquid

Daily Liquid Surf. Bulk Vapor Liquid Vapor

Temperatures (deg F) Temp. Vapor Pressures (psia) Mol. Mass Mass Mol. Basis for Vapor Pressure

Mixture/Component Month Avg. Min. Max. (deg F) Avg. Min. Max. Weight Fract. Fract. Weight Calculations

Distillate fuel oil no. 2 All 84.05 74.24 93.86 77.68 0.0138 0.0102 0.0185 130.000 130.00 Option 4: A=12.1010, B=8907.0

07/11/95 P**A**GE 3

| Standing Losses (lb):                     | 9.2202     |
|---|------------|
| Vapor Space Volume (cu ft):               | 1197.56    |
| Vapor Density (lb/cu ft):                 | 0.0003     |
| Vapor Space Expansion Factor:             | 0.068683   |
| Vented Vapor Saturation Factor:           | 0.996347   |
| vented vapor saturation ractor.           | 0.770347   |
| Tank Vapor Space Volume                   |            |
| Vapor Space Volume (cu ft):               | 1197.56    |
| Tank Diameter (ft):                       | 10         |
| Effective Diameter (ft):                  | 17         |
| Vapor Space Outage (ft):                  | 5.00       |
| Tank Shell Height (ft):                   | 24         |
| Tank onest hergite (177)                  |            |
| Vapor Density                             |            |
| Vapor Density (lb/cu ft):                 | 0.0003     |
| Vapor Molecular Weight (lb/lb-mole):      | 130.000000 |
| Vapor Pressure at Daily Average Liquid    |            |
| Surface Temperature (psia):               | 0.013834   |
| Daily Avg. Liquid Surface Temp. (deg R):  | 543.72     |
| Daily Average Ambient Temp. (deg. R):     | 534.27     |
| Ideal Gas Constant R                      |            |
| (psia cuft /(lb-mole-deg R)):             | 10.731     |
| Liquid Bulk Temperature (deg R):          | 537.35     |
| Tank Paint Solar Absorptance:             | 0.68       |
| Daily Total Solar Insolation              |            |
| Factor (Btu/sqftday):                     | 1438.00    |
|   |            |
| Vapor Space Expansion Factor              |            |
| Vapor Space Expansion Factor:             | 0.068683   |
| Daily Vapor Temperature Range (deg R):    | 39.26      |
| Daily Vapor Pressure Range (psia):        | 0.008256   |
| Breather Vent Press. Setting Range(psia): | 0.06       |
| Vapor Pressure at Daily Average Liquid    |            |
| Surface Temperature (psia):               | 0.013834   |
| Vapor Pressure at Daily Minimum Liquid    |            |
| Surface Temperature (psia):               | 0.010239   |
| Vapor Pressure at Daily Maximum Liquid    | 01010207   |
| Surface Temperature (psia):               | 0.018495   |
| Daily Avg. Liquid Surface Temp. (deg R):  | 543.72     |
| Daily Min. Liquid Surface Temp. (deg R):  | 533.91     |
| Daily Max. Liquid Surface Temp. (deg R):  | 553.53     |
| Daily Ambient Temp. Range (deg.R):        | 16.50      |
| Daity Ambient Temp. Kange (deg.k):        | 10.30      |

#### TANKS PROGRAM 2.0 EMISSIONS REPORT DETAIL FORMAT

07/11/95 PAGE 4

DETAIL CALCULATIONS (AP-42), CONT.

| Vented Vapor Saturation Factor         |            |
|--|------------|
| Vented Vapor Saturation Factor:        | 0.996347   |
| Vapor Pressure at Daily Average Liquid |            |
|  | 0.013834   |
| Surface Temperature (psia):            |            |
| Vapor Space Outage (ft):               | 5.00       |
| Withdrawal Losses (lb):                | 68.2055    |
| Vapor Molecular Weight (lb/lb-mole):   | 130.000000 |
| Vapor Pressure at Daily Average Liquid |            |
|  | 0.01707/   |
| Surface Temperature (psia):            | 0.013834   |
| Annual Net Throughput (gal/yr):        | 6748560    |
| Turnover Factor:                       | 0.2360     |
| Tank Diameter (ft):                    | 10         |
| Working Loss Product Factor:           | 1.00       |
| Total Losses ({b}):                    | 77.43      |

#### TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT INDIVIDUAL TANK EMISSION TOTALS

07/11/95 PAGE 5

#### Annual Emissions Report

|                           | Losses (lb |            |       |
|---------------------------|------------|------------|-------|
| Liquid Contents           | Standing   | Withdrawal | Total |
| Distillate fuel oil no. 2 | 9.22       | 68.21      | 77.43 |
| Total:                    | 9.22       | 68.21      | 77.43 |

# TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT TANK IDENTIFICATION AND PHYSICAL CHARACTERISTICS

07/11/95 PAGE 1

Identification Identification No.: City: Lake Worth State: FL CITY OF LW/TOM G. SMITH PLANT Company: Type of Tank: Vertical Fixed Roof Tank Dimensions 31 Shell Height (ft): Diameter (ft): 46 Liquid Height (ft): 29 14 Avg. Liquid Height (ft): Volume (gallons): 360562 142 Turnovers: Net Throughput (gal/yr): 51091635 Paint Characteristics Shell Color/Shade: Gray/Medium Shell Condition: Good Gray/Medium Roof Color/Shade: Roof Condition: Good Roof Characteristics Cone Type: Height (ft): 1.44 Radius (ft) (Dome Roof): 0.00 Slope (ft/ft) (Cone Roof): 0.0625 Breather Vent Settings Vacuum Setting (psig): 0.00

Pressure Setting (psig):

Meteorological Data Used in Emission Calculations: West Palm Beach, Florida

0.00

07/11/95 P**A**GE 2

| Mixture/Component  | Month | Temper | atures |       | Temp. | Vapor F |        | (psia)<br>Max. |         |   |            | Basis for Vapor Pressure<br>Calculations |
|--------------------|-------|--------|--------|-------|-------|---------|--------|----------------|---------|---|------------|--|
| Residual oil no. 6 | All   | 84.05  | 74.24  | 93.86 | 77.68 | 0.0001  | 0.0001 | 0.0001         | 190.000 | 1 | <br>190.00 | Option 4: A=10.1040. B=10475.0           |

07/11/95 PAGE 3

| Standing Losses (lb): Vapor Space Volume (cu ft): Vapor Density (lb/cu ft): Vapor Space Expansion Factor: Vented Vapor Saturation Factor:  | 2.6179<br>29048.42<br>0.0000<br>0.072211<br>0.999903 |
|--|--|
| Tank Vapor Space Volume Vapor Space Volume (cu ft): Tank Diameter (ft): Vapor Space Outage (ft): Tank Shell Height (ft): Average Liquid Height (ft): Roof Outage (ft):   | 29048.42<br>46<br>17.48<br>31<br>14                  |
| Roof Outage (Cone Roof) Roof Outage (ft): Roof Height (ft): Roof Slope (ft/ft): Shell Radius (ft):   | 0.48<br>1.437<br>0.06248<br>23                       |
| Vapor Density Vapor Density (lb/cu ft): Vapor Molecular Weight (lb/lb-mole): Vapor Pressure at Daily Average Liquid  | 0.0000<br>190.000000                                 |
| Surface Temperature (psia): Daily Avg. Liquid Surface Temp.(deg. R): Daily Average Ambient Temp. (deg. R): Ideal Gas Constant R  | 0.000105<br>543.72<br>534.27                         |
| (psia cuft /(lb-mole-deg R)): Liquid Bulk Temperature (deg. R): Tank Paint Solar Absorptance (Shell): Tank Paint Solar Absorptance (Roof): Daily Total Solar Insolation Factor (Btu/sqftday):                                    | 10.731<br>537.35<br>0.68<br>0.68<br>1438.00          |
| Vapor Space Expansion Factor Vapor Space Expansion Factor: Daily Vapor Temperature Range (deg.R): Daily Vapor Pressure Range (psia): Breather Vent Press. Setting Range(psia):   | 0.072211<br>39.26<br>0.000074<br>0.00                |
| Vapor Pressure at Daily Average Liquid<br>Surface Temperature (psia):<br>Vapor Pressure at Daily Minimum Liquid<br>Surface Temperature (psia):   | 0.000105<br>0.000074                                 |
| Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): Daily Avg. Liquid Surface Temp. (deg R): Daily Min. Liquid Surface Temp. (deg R): Daily Max. Liquid Surface Temp. (deg R): Daily Ambient Temp. Range (deg.R): | 0.000148<br>543.72<br>533.91<br>553.53<br>16.50      |

07/11/95 PAGE 4

| Annual Emission Calculations<br>Vented Vapor Saturation Factor |            |
|--|------------|
| Vented Vapor Saturation Factor:                                | 0.999903   |
| Vapor Pressure at Daily Average Liquid                         |            |
| Surface Temperature (psia):                                    | 0.000105   |
| Vapor Space Outage (ft):                                       | 17.48      |
| Withdrawal Losses (lb):  | 9.1839     |
| Vapor Molecular Weight (lb/lb-mole):                           | 190.000000 |
| Vapor Pressure at Daily Average Liquid                         |            |
| Surface Temperature (psia):                                    | 0.000105   |
| Annual Net Throughput (gal/yr):                                | 51091635   |
| Turnover Factor:   | 0.3784     |
| Maximum Liquid Volume (cuft):                                  | 48195      |
| Maximum Liquid Height (ft):                                    | 29         |
| Tank Diameter (ft):  | 46         |
| Working Loss Product Factor:                                   | 1.00       |
| Total Losses (lb):   | 11.80      |

## TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT INDIVIDUAL TANK EMISSION TOTALS

07/11/95 PAGE 5

#### Annual Emissions Report

|                    | Losses (lbs.): |            |       |  |  |  |  |
|--------------------|----------------|------------|-------|--|--|--|--|
| Liquid Contents    | Standing       | Withdrawal | Total |  |  |  |  |
| Residual oil no. 6 | 2.62           | 9.18       | 11.80 |  |  |  |  |
| Total:             | 2.62           | 9.18       | 11.80 |  |  |  |  |

TANKS PROGRAM 2.0
EMISSIONS REPORT - DETAIL FORMAT
TANK IDENTIFICATION AND PHYSICAL CHARACTERISTICS

07/11/95 PAGE 1

Identification

Identification No.: 10

10

City: Lake Worth

State:

Company: CITY OF LW/TOM G. SMITH PLANT

Type of Tank: Horizontal Fixed Roof

Tank Dimensions

Shell Length (ft): 31
Diameter (ft): 11
Volume(gallons): 20134
Is tank underground? (Y/N): N
Turnovers: 164
Net Throughput (gal/yr): 3299963

Paint Characteristics

Shell Color/Shade: Gray/Medium

Shell Condition: Good

Breather Vent Settings

Vacuum Setting (psig): -0.04 Pressure Setting (psig): 0.04

Meteorological Data Used in Emission Calculations: West Palm Beach, Florida

07/11/95 PAGE 2

Liquid

Daily Liquid Surf. Bulk Vapor Liquid Vapor Temperatures (deg F) Temp. Vapor Pressures (psia) Mol. Mass Mass Mol. Basis for Vapor Pressure Month Avg. Min. Max. (deg F) Avg. Min. Max. Weight Fract. Fract. Weight Calculations

Distillate fuel oil no. 2 All 84.05 74.24 93.86 77.68 0.0138 0.0102 0.0185 130.000

Mixture/Component

130.00 Option 4: A=12.1010, B=8907.0

07/11/95 PAGE 3

| Standing Losses (lb): Vapor Space Volume (cu ft): Vapor Density (lb/cu ft): Vapor Space Expansion Factor: Vented Vapor Saturation Factor:         | 14.1195<br>1871.68<br>0.0003<br>0.067321<br>0.995983 |
|---|--|
| Tank Vapor Space Volume Vapor Space Volume (cu ft): Tank Diameter (ft): Effective Diameter (ft): Vapor Space Outage (ft): Tank Shell Height (ft): | 1871.68<br>11<br>21<br>5.50                          |
| Vapor Density Vapor Density (lb/cu ft): Vapor Molecular Weight (lb/lb-mole): Vapor Pressure at Daily Average Liquid                               | 0.0003<br>130.000000                                 |
| Surface Temperature (psia):   | 0.013834   |
| Daily Avg. Liquid Surface Temp. (deg R):  | 543.72   |
| Daily Average Ambient Temp. (deg. R):   | 534.27   |
| Ideal Gas Constant R  | 55,112,  |
| (psia cuft /(lb-mole-deg R)):   | 10.731   |
| Liquid Bulk Temperature (deg R):  | 537.35   |
| Tank Paint Solar Absorptance:   | 0.68   |
| Daily Total Solar Insolation  |  |
| Factor (Btu/sqftday):   | 1438.00  |
| Vapor Space Expansion Factor  |  |
| Vapor Space Expansion Factor:   | 0.067321   |
| Daily Vapor Temperature Range (deg R):  | 39.26  |
| Daily Vapor Pressure Range (psia):  | 0.008256   |
| Breather Vent Press. Setting Range(psia):   | 0.08   |
| Vapor Pressure at Daily Average Liquid  |  |
| Surface Temperature (psia):   | 0.013834   |
| Vapor Pressure at Daily Minimum Liquid  |  |
| Surface Temperature (psia):   | 0.010239   |
| Vapor Pressure at Daily Maximum Liquid<br>Surface Temperature (psia):   | 0.018495   |
| Daily Avg. Liquid Surface Temp. (deg R):  | 543.72   |
| Daily Min. Liquid Surface Temp. (deg R):  | 533.91   |
| Daily Max. Liquid Surface Temp. (deg R):  |  |
| Daily Ambient Temp. Range (deg.R):  | 16.50  |
| builty Ambient Temp. Range (deg.K).   | 10.50  |

#### TANKS PROGRAM 2.0 EMISSIONS REPORT DETAIL FORMAT

07/11/95 PAGE 4

DETAIL CALCULATIONS (AP-42), CONT.

| Vented Vapor Saturation Factor<br>Vented Vapor Saturation Factor:<br>Vapor Pressure at Daily Average Liquid | 0.995983   |
|---|------------|
| Surface Temperature (psia):   | 0.013834   |
| Vapor Space Outage (ft):  | 5.50       |
| Withdrawal Losses (lb):   | 49.4186    |
| Vapor Molecular Weight (lb/lb-mole):  | 130.000000 |
| Vapor Pressure at Daily Average Liquid  |            |
| Surface Temperature (psia):   | 0.013834   |
| Annual Net Throughput (gal/yr):   | 3299963    |
| Turnover Factor:  | 0.3497     |
| Tank Diameter (ft):   | 11         |
| Working Loss Product Factor:  | 1.00       |
| Total Losses (lb):  | 63.54      |

## TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT INDIVIDUAL TANK EMISSION TOTALS

07/11/95 PAGE 5

#### Annual Emissions Report

| -                         | Losses (lb |            |       |
|---------------------------|------------|------------|-------|
| Liquid Contents           | Standing   | Withdrawal | Total |
| Distillate fuel oil no. 2 | 14.12      | 49.42      | 63.54 |
| Total:                    | 14.12      | 49.42      | 63.54 |

# TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT TANK IDENTIFICATION AND PHYSICAL CHARACTERISTICS

07/11/95 PAGE 1

Identification

Identification No.: 11

City: Lake Worth

State: FL

Company: CITY OF LW/TOM G. SMITH PLANT

Type of Tank: Horizontal Fixed Roof

Tank Dimensions

Shell Length (ft): 31
Diameter (ft): 11
Volume(gallons): 20134
Is tank underground? (Y/N): N
Turnovers: 164
Net Throughput (gal/yr): 3299963

Paint Characteristics

Shell Color/Shade: Gray/Medium

Shell Condition: Good

**Breather Vent Settings** 

Vacuum Setting (psig): -0.04
Pressure Setting (psig): 0.04

Meteorological Data Used in Emission Calculations: West Palm Beach, Florida

07/11/95 PAGE 2

Liquid

Daily Liquid Surf. Bulk Vapor Liquid Vapor

Temperatures (deg F) Temp. Vapor Pressures (psia) Mol. Mass Mass Mol. Basis for Vapor Pressure

Mixture/Component Month Avg. Min. Max. (deg F) Avg. Min. Max. Weight Fract. Fract. Weight Calculations

84.05 74.24 93.86 77.68 0.0138 0.0102 0.0185 130.000 Distillate fuel oil no. 2

130.00 Option 4: A=12.1010, B=8907.0

07/11/95 PAGE 3

| Standing Losses (lb): Vapor Space Volume (cu ft): Vapor Density (lb/cu ft): Vapor Space Expansion Factor: Vented Vapor Saturation Factor:   | 14.1195<br>1871.68<br>0.0003<br>0.067321<br>0.995983 |
|---|--|
| Tank Vapor Space Volume Vapor Space Volume (cu ft): Tank Diameter (ft): Effective Diameter (ft): Vapor Space Outage (ft): Tank Shell Height (ft):   | 1871.68<br>11<br>21<br>5.50<br>31                    |
| Vapor Density Vapor Density (lb/cu ft): Vapor Molecular Weight (lb/lb-mole): Vapor Pressure at Daily Average Liquid   | 0.0003<br>130.000000                                 |
| Surface Temperature (psia): Daily Avg. Liquid Surface Temp. (deg R): Daily Average Ambient Temp. (deg. R): Ideal Gas Constant R   | 0.013834<br>543.72<br>534.27                         |
| (psia cuft /(lb-mole-deg R)):<br>Liquid Bulk Temperature (deg R):<br>Tank Paint Solar Absorptance:<br>Daily Total Solar Insolation  | 10.731<br>537.35<br>0.68                             |
| Factor (Btu/sqftday):   | 1438.00  |
| Vapor Space Expansion Factor Vapor Space Expansion Factor: Daily Vapor Temperature Range (deg R): Daily Vapor Pressure Range (psia): Breather Vent Press. Setting Range(psia): Vapor Pressure at Daily Average Liquid                           | 0.067321<br>39.26<br>0.008256<br>0.08                |
| Surface Temperature (psia): Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):  | 0.013834   |
| Vapor Pressure at Daily Maximum Liquid<br>Surface Temperature (psia):<br>Daily Avg. Liquid Surface Temp. (deg R):<br>Daily Min. Liquid Surface Temp. (deg R):<br>Daily Max. Liquid Surface Temp. (deg R):<br>Daily Ambient Temp. Range (deg.R): | 0.018495<br>543.72<br>533.91<br>553.53<br>16.50      |

#### TANKS PROGRAM 2.0 EMISSIONS REPORT DETAIL FORMAT

07/11/95 PAGE 4

DETAIL CALCULATIONS (AP-42), CONT.

| 0.995983   |
|------------|
| 0.013834   |
| 5.50       |
| 49.4186    |
| 130.000000 |
|            |
| 0.013834   |
| 3299963    |
| 0.3497     |
| 11         |
| 1.00       |
| 63.54      |
|            |

## TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT INDIVIDUAL TANK EMISSION TOTALS

07/11/95 PAGE 5

#### Annual Emissions Report

|                           | Losses (lb | s.):       |       |
|---------------------------|------------|------------|-------|
| Liquid Contents           | Standing   | Withdrawal | Total |
| Distillate fuel oil no. 2 | 14.12      | 49.42      | 63.54 |
| Total:                    | 14.12      | 49.42      | 63.54 |

#### TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT TANK IDENTIFICATION AND PHYSICAL CHARACTERISTICS

07/11/95 PAGE 1

Identification

Identification No.:

12

Lake Worth City:

State:

Company: CITY OF LW/TOM G. SMITH PLANT

Type of Tank: Vertical Fixed Roof

Tank Dimensions

22 Shell Height (ft): 33 Diameter (ft): 20 Liquid Height (ft): Avg. Liquid Height (ft): 10 Volume (gallons): 127975 156 Turnovers: Net Throughput (gal/yr): 19900113

Paint Characteristics

Shell Color/Shade: Gray/Medium Shell Condition: Good Gray/Medium Roof Color/Shade:

Roof Condition: Good

**Roof Characteristics** 

Type: Cone Height (ft): 1.03 0.00 Radius (ft) (Dome Roof):

0.0625 Slope (ft/ft) (Cone Roof):

Breather Vent Settings

Vacuum Setting (psig): 0.00 Pressure Setting (psig): 0.00

Meteorological Data Used in Emission Calculations: West Palm Beach, Florida

07/11/95 PAGE 2

Liquid

Daily Liquid Surf. Bulk Vapor Liquid Vapor

Temperatures (deg F) Temp. Vapor Pressures (psia) Mol. Mass Mass Mol. Basis for Vapor Pressure

Mixture/Component Month Avg. Min. Max. (deg F) Avg. Min. Max. Weight Fract. Fract. Weight Calculations

Distillate fuel oil no. 2 All 84.05 74.24 93.86 77.68 0.0138 0.0102 0.0185 130.000

130.00 Option 4: A=12.1010, B=8907.0

07/11/95 PAGE 3

| Standing Losses (lb): Vapor Space Volume (cu ft): Vapor Density (lb/cu ft): Vapor Space Expansion Factor: Vented Vapor Saturation Factor:   | 85.6591<br>10557.50<br>0.0003<br>0.072768<br>0.991031 |
|---|---|
| Tank Vapor Space Volume Vapor Space Volume (cu ft): Tank Diameter (ft): Vapor Space Outage (ft): Tank Shell Height (ft): Average Liquid Height (ft): Roof Outage (ft):  | 10557.50<br>33<br>12.34<br>22<br>10<br>0.34           |
| Roof Outage (Cone Roof) Roof Outage (ft): Roof Height (ft): Roof Slope (ft/ft): Shell Radius (ft):  | 0.34<br>1.031<br>0.06248<br>17                        |
| Vapor Density Vapor Density (lb/cu ft): Vapor Molecular Weight (lb/lb-mole): Vapor Pressure at Daily Average Liquid   | 0.0003<br>130.000000                                  |
| Surface Temperature (psia): Daily Avg. Liquid Surface Temp.(deg. R): Daily Average Ambient Temp. (deg. R): Ideal Gas Constant R   | 0.013834<br>543.72<br>534.27                          |
| (psia cuft /(lb-mole-deg R)): Liquid Bulk Temperature (deg. R): Tank Paint Solar Absorptance (Shell): Tank Paint Solar Absorptance (Roof): Daily Total Solar Insolation Factor (Btu/sqftday):   | 10.731<br>537.35<br>0.68<br>0.68                      |
| Vapor Space Expansion Factor Vapor Space Expansion Factor:  | 0.072768  |
| Daily Vapor Temperature Range (deg.R):<br>Daily Vapor Pressure Range (psia):<br>Breather Vent Press. Setting Range(psia):<br>Vapor Pressure at Daily Average Liquid   | 39.26<br>0.008256<br>0.00                             |
| Surface Temperature (psia): Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):  | 0.013834  |
| Vapor Pressure at Daily Maximum Liquid<br>Surface Temperature (psia):<br>Daily Avg. Liquid Surface Temp. (deg R):<br>Daily Min. Liquid Surface Temp. (deg R):<br>Daily Max. Liquid Surface Temp. (deg R):<br>Daily Ambient Temp. Range (deg.R): | 0.018495<br>543.72<br>533.91<br>553.53<br>16.50       |

07/11/95 PAGE 4

| Annual Emission Calculations<br>Vented Vapor Saturation Factor            |            |
|---|------------|
| Vented Vapor Saturation Factor:<br>Vapor Pressure at Daily Average Liquid | 0.991031   |
| Surface Temperature (psia):   | 0.013834   |
| Vapor Space Outage (ft):  | 12.34      |
| Withdrawal Losses (lb):   | 306.4235   |
| Vapor Molecular Weight (lb/lb-mole):                                      | 130.000000 |
| Vapor Pressure at Daily Average Liquid                                    |            |
| Surface Temperature (psia):   | 0.013834   |
| Annual Net Throughput (gal/yr):   | 19900113   |
| Turnover Factor:  | 0.3596     |
| Maximum Liquid Volume (cuft):   | 17106      |
| Maximum Liquid Height (ft):   | 20         |
| Tank Diameter (ft):   | 33         |
| Working Loss Product Factor:  | 1.00       |
| Total Losses (lb):  | 392.08     |

## TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT INDIVIDUAL TANK EMISSION TOTALS

07/11/95 PAGE 5

#### Annual Emissions Report

|                           | Losses (lb |            |        |
|---------------------------|------------|------------|--------|
| Liquid Contents           | Standing   | Withdrawal | Total  |
| Distillate fuel oil no. 2 | 85.66      | 306.42     | 392.08 |
| Total:                    | 85.66      | 306.42     | 392.08 |

# TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT TANK IDENTIFICATION AND PHYSICAL CHARACTERISTICS

07/18/95 PAGE 1

Identification

Identification No.: DISPOSALLO
City: Lake Worth

State: FL

Company: CITY OF LW/TOM G. SMITH PALNT

Type of Tank: Horizontal Fixed Roof

Tank Dimensions

Shell Length (ft): 11
Diameter (ft): 4
Volume(gallons): 947
Is tank underground? (Y/N): N
Turnovers: 0
Net Throughput (gal/yr): 284

Paint Characteristics

Shell Color/Shade: Red/Primer Shell Condition: Good

Breather Vent Settings

Vacuum Setting (psig): 0.00
Pressure Setting (psig): 0.00

Meteorological Data Used in Emission Calculations: West Palm Beach, Florida

07/18/95 PAGE 2

| Mixture/Component  | Month | Temper | atures | (deg F) | Temp. | Vapor F<br>) Avg. |        | (psia)<br>Max. |         | Liquid<br>Mass<br>Fract. |        | Basis for Vapor Pressure<br>Calculations |
|--------------------|-------|--------|--------|---------|-------|-------------------|--------|----------------|---------|--------------------------|--------|--|
| Residual oil no. 6 | All   | 87.14  | 75.21  | 99.07   | 78.94 | 0.0001            | 0.0001 | 0.0002         | 190.000 |                          | 190.00 | Option 4: A=10.1040. B=10475.0           |

07/18/95 PAGE 3

| Standing Losses (lb): Vapor Space Volume (cu ft): Vapor Density (lb/cu ft): Vapor Space Expansion Factor: Vented Vapor Saturation Factor:   | 0.0106<br>87.82<br>0.0000<br>0.087258<br>0.999988    |
|---|--|
| Tank Vapor Space Volume Vapor Space Volume (cu ft): Tank Diameter (ft): Effective Diameter (ft): Vapor Space Outage (ft): Tank Shell Height (ft):   | 87.82<br>4<br>7<br>2.00                              |
| Vapor Density Vapor Density (lb/cu ft): Vapor Molecular Weight (lb/lb-mole): Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Daily Avg. Liquid Surface Temp. (deg R): Daily Average Ambient Temp. (deg. R): Ideal Gas Constant R | 0.0000<br>190.000000<br>0.000117<br>546.81<br>534.27 |
| <pre>(psia cuft /(lb-mole-deg R)): Liquid Bulk Temperature (deg R): Tank Paint Solar Absorptance: Daily Total Solar Insolation Factor (Btu/sqftday):</pre>  | 10.731<br>538.61<br>0.89<br>1438.00                  |
| Vapor Space Expansion Factor: Vapor Space Expansion Factor: Daily Vapor Temperature Range (deg R): Daily Vapor Pressure Range (psia): Breather Vent Press. Setting Range(psia): Vapor Pressure at Daily Average Liquid                              | 0.087258<br>47.71<br>0.000100<br>0.00                |
| Surface Temperature (psia): Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): Daily Avg. Liquid Surface Temp. (deg R): Daily Min. Liquid Surface Temp. (deg R): | 0.000117<br>0.000076<br>0.000176<br>546.81<br>534.88 |
| Daily Max. Liquid Surface Temp. (deg R):<br>Daily Ambient Temp. Range (deg.R):  | 558.74<br>16.50                                      |

## TANKS PROGRAM 2.0 EMISSIONS REPORT DETAIL FORMAT

07/18/95 PAGE 4

DETAIL CALCULATIONS (AP-42), CONT.

| Vented Vapor Saturation Factor Vented Vapor Saturation Factor: | 0.999988   |
|--|------------|
| Vapor Pressure at Daily Average Liquid                         |            |
| Surface Temperature (psia):                                    | 0.000117   |
| Vapor Space Outage (ft):                                       | 2.00       |
| Withdrawal Losses (lb):  | 0.0002     |
| Vapor Molecular Weight (lb/lb-mole):                           | 190.000000 |
| Vapor Pressure at Daily Average Liquid                         |            |
| Surface Temperature (psia):                                    | 0.000117   |
| Annual Net Throughput (gal/yr):                                | 284        |
| Turnover Factor:   | 1.0000     |
| Tank Diameter (ft):  | 4          |
| Working Loss Product Factor:                                   | 1.00       |
| Total Losses (lb):   | 0.01       |

#### TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT INDIVIDUAL TANK EMISSION TOTALS

07/18/95 PAGE 5

#### Annual Emissions Report

|                    | Losses (lb | Losses (lbs.): |       |  |  |  |  |  |
|--------------------|------------|----------------|-------|--|--|--|--|--|
| Liquid Contents    | Standing   | Withdrawal     | Total |  |  |  |  |  |
| Residual oil no. 6 | 0.01       | 0.00           | 0.01  |  |  |  |  |  |
| Total:             | 0.01       | 0.00           | 0.01  |  |  |  |  |  |

# TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT TANK IDENTIFICATION AND PHYSICAL CHARACTERISTICS

07/18/95 PAGE 1

Identification

Identification No.:

OVERHAULLO Lake Worth

City:

FL

State: Company:

CITY OF LW/TOM G. SMITH PLANT

Type of Tank: Horizontal Fixed Roof

Tank Dimensions

Shell Length (ft): 16 Diameter (ft): 7

Volume(gallons): 5000 Is tank underground? (Y/N): N

Turnovers:

1 2500

Net Throughput (gal/yr):

Paint Characteristics

Shell Color/Shade:

Red/Primer

Shell Condition: Good

Breather Vent Settings

Vacuum Setting (psig):

-0.07

Pressure Setting (psig):

0.27

Meteorological Data Used in Emission Calculations: West Palm Beach, Florida

07/18/95 PAGE 2

| Mixture/Component  | Month |       | atures |       | Temp. | Vapor 1 | Pressures<br>Min. |        |         |      |        | Basis for Vapor Pressure<br>Calculations |
|--------------------|-------|-------|--------|-------|-------|---------|-------------------|--------|---------|------|--------|--|
| Residual oil no. 6 | All   | 87.14 | 75.21  | 99.07 | 78.94 | 0.0001  | 0.0001            | 0.0002 | 190.000 | <br> | 190.00 | Option 4: A=10.1040, B=10475.0           |

#### TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT DETAIL CALCULATIONS (AP-42)

07/18/95 PAGE 3

#### Annual Emission Calculations

| Standing Losses (lb):                     | 0.0347                                  |
|---|---|
| Vapor Space Volume (cu ft):               | 391.20                                  |
| Vapor Density (lb/cu ft):                 | 0.0000                                  |
| Vapor Space Expansion Factor:             | 0.064129                                |
| Vented Vapor Saturation Factor:           | 0.999978                                |
| vented vapor saturation ractor.           | 0.,,,,,                                 |
| Tank Vapor Space Volume                   |   |
| Vapor Space Volume (cu ft):               | 391.20                                  |
| Tank Diameter (ft):                       | 7                                       |
| Effective Diameter (ft):                  | 12                                      |
| Vapor Space Outage (ft):                  | 3.50                                    |
| Tank Shell Height (ft):                   | 16                                      |
| •   |   |
| Vapor Density                             |   |
| Vapor Density (lb/cu ft):                 | 0.0000                                  |
| Vapor Molecular Weight (lb/lb-mole):      | 190.000000                              |
| Vapor Pressure at Daily Average Liquid    | _                                       |
| Surface Temperature (psia):               | 0.000117                                |
| Daily Avg. Liquid Surface Temp. (deg R):  | 546.81                                  |
| Daily Average Ambient Temp. (deg. R):     | 534.27                                  |
| Ideal Gas Constant R                      |   |
| (psia cuft /(lb-mole-deg R)):             | 10.731                                  |
| Liquid Bulk Temperature (deg R):          | 538.61                                  |
| Tank Paint Solar Absorptance:             | 0.89                                    |
| Daily Total Solar Insolation              |   |
| Factor (Btu/sqftday):                     | 1438.00                                 |
| Vapor Space Expansion Factor              |   |
| Vapor Space Expansion Factor:             | 0.064129                                |
| Daily Vapor Temperature Range (deg R):    | 47.71                                   |
| Daily Vapor Pressure Range (psia):        | 0.000100                                |
| Breather Vent Press. Setting Range(psia): | 0.34                                    |
| Vapor Pressure at Daily Average Liquid    | • |
| Surface Temperature (psia):               | 0.000117                                |
| Vapor Pressure at Daily Minimum Liquid    | 0.000                                   |
| Surface Temperature (psia):               | 0.000076                                |
| Vapor Pressure at Daily Maximum Liquid    | 0.000070                                |
| Surface Temperature (psia):               | 0.000176                                |
| Daily Avg. Liquid Surface Temp. (deg R):  | 546.81                                  |
| Daily Min. Liquid Surface Temp. (deg R):  | 534.88                                  |
| Daily Max. Liquid Surface Temp. (deg R):  | 558.74                                  |
| Daily Ambient Temp. Range (deg.R):        | 16.50                                   |
| party Amplett Temp. Range (deg.k):        | 10.50                                   |

#### TANKS PROGRAM 2.0 EMISSIONS REPORT DETAIL FORMAT

07/18/95 PAGE 4

DETAIL CALCULATIONS (AP-42), CONT.

#### Annual Emission Calculations

| Vented Vapor Saturation Factor Vented Vapor Saturation Factor: | 0.999978          |
|--|-------------------|
| Vapor Pressure at Daily Average Liquid                         |                   |
| Surface Temperature (psia):                                    | 0.0001 <b>1</b> 7 |
| Vapor Space Outage (ft):                                       | 3.50              |
| Withdrawal Losses (lb):  | 0.0013            |
| Vapor Molecular Weight (lb/lb-mole):                           | 190.000000        |
| Vapor Pressure at Daily Average Liquid                         |                   |
| Surface Temperature (psia):                                    | 0.000117          |
| Annual Net Throughput (gal/yr):                                | 2500              |
| Turnover Factor:   | 1.0000            |
| Tank Diameter (ft):  | 7                 |
| Working Loss Product Factor:                                   | 1.00              |
| HOLKING E003 11 October 1 de tol 1                             | 7.00              |
| Total Losses (lb):   | 0.04              |

#### TANKS PROGRAM 2.0 EMISSIONS REPORT - DETAIL FORMAT INDIVIDUAL TANK EMISSION TOTALS

07/18/95 PAGE 5

#### Annual Emissions Report

|                    | Losses (lbs.): |            |       |  |
|--------------------|----------------|------------|-------|--|
| Liquid Contents    | Standing       | Withdrawal | Total |  |
| Residual oil no. 6 | 0.03           | 0.00       | 0.04  |  |
| Total:             | 0.03           | 0.00       | 0.04  |  |

# ATTACHMENT G PROPOSED EXEMPT ACTIVITIES

#### PROPOSED EXEMPT ACTIVITIES

All activities are exempt based on trivial list in EPA white paper (attached)

#### POWER GENERATION FACILITY:

#### General Facility Activities

1 Fire Protection System Painting Building & Structures Using Latex Paint

#### Units Within S-1

| 3 | Machine Shop Gas Bottles - O₂        |
|---|--------------------------------------|
| 3 | Machine Shop Gas Bottles - Acetylene |
| 1 | Contained Sand Blaster               |

- 2 Grinders
- 2 Drill Press
- 1 Lathe
- 4 Fire Extinguisher
- 9 Gas Bottles N<sub>2</sub>
- 2 Gas Bottles O<sub>2</sub>
- 1 Gas Bottles Argon
- 1 Steam Jet Air Ejector Vent
- 2 Steam Drum Safety Relief Vent's
- 1 Steam Drum Vent
- Superheater with 1 Safety Relief Vent
- 5 Air Compressors
- 1 Instrument Air Receiver Tank with 1 Safety Relief Vent
- 1 House Air Receiver Tank with 1 Safety Relief Vent
- 1 Portable Oil/Water Centrifuge with Vent
- 1 Mini Oil Water Separator with Vent
- 1 Turbine Lube Oil Tank Vapor Vent Batteries
- 1 Small Water Treatment Tank
- 2 Feed Water Heaters with 4 Safety Relief Vents
- 2 Boiler Feed Pump Vents
- 1 Chemical Treatment Tank
- 1 Sump Flash Tank
- 1 Natural Gas Vent
- 1 Condensate Storage Tank Vent
- 1 Condensate Storage Tank Safety Relief Vent
- 1 Deaerator Tank Vent
- 1 Deaerator Tank Safety Relief Vent
- 2 High Pressure Feed Water Heaters, 1 Safety Relief Vent each Heater
- 1 Gland Seal Tank Vapor Extractor

## PROPOSED EXEMPT ACTIVITIES

## Units Within S-3

|        | Water Pre-Treatment System   |
|--------|--|
| 4      | Demineralizers   |
| 6      | CO <sub>2</sub> , H <sub>2</sub> Bottles                                     |
| 1      | Seal Oil System - H <sub>2</sub> Vent  |
| 4      | Condenser Water Box Vents  |
| 1      | Lube Oil Filter Vapor Extractor  |
| 1      | Turbine Lube Oil Tank Vapor Extractor  |
| 2      | Boiler Feed Pump Vents   |
| 1      | "Sulphite Amine-Eliminox S-3B" 45 Gal. Water Treatment Tank                  |
| 8      | Fire Extinguisher  |
|        | Batteries  |
| 1      | Gland Seal System Vapor Extractor  |
| 1      | Hydrogen Moisture Removal High Level Drains                                  |
|        | Building Vents   |
| 3      | Feed Water Heater with Steam-Side  |
| 4      | and Water Side Safety Relief Valves and Vents                                |
| 1      | Steam-Jet Air Ejector  |
| 2<br>1 | Air Filters with Pressure Relief Vents                                       |
| 1      | Natural Gas Pressure Relief Vent with Regulating Relief Valve and Bleed Vent |
| 3      | 2% O <sub>2</sub> Nitrogen Balance Bottles                                   |
| 1      | Flash Tank   |
| 1      | Condensate Tank with Pressure Relief Valve and Vent                          |
| 2      | Dust Collector Hopper Discharge Valve  |
| 1      | Steam Drum with 2 Safety Relief Valves and 1 Vent                            |
| 1      | Superheater Header with Safety Relief Valve                                  |
| 1      | Deaerator with 2 Safety Relief Valves and 1 Vent                             |
| 1      | Demineralized Water Storage Tank Vent  |
| 1      | Superheater Header Vent  |
| 1      | Steam Safety Relief Vent   |
| 1      | Seal Oil System Vent   |
| 1      | Seal Oil Vapor Extractor   |
| 1      | Lube Oil Filter Vapor Extractor  |
| 1      | Lube Oil Tank Vapor Extractor  |
| 1      | Gland Seal Exhauster   |

## PROPOSED EXEMPT ACTIVITIES

## Units Within S-4

| 2 | Drum Safety helief valves (Safety helief vent s) - Silencers & Stacks  |
|---|--|
| 1 | Superheater Safety Relief Valves - Silencers & Stacks                  |
| 1 | Superheater Vent - Silencers & Stacks                                  |
|   | Superheater Outlet Header Drain (Double-Valved)                        |
| 2 | Deaerator Safety Relief Valves   |
| 1 | Deaerator Vent Valve   |
| 2 | Superheater Header Vents (Assumed)                                     |
| 3 | Fire Extinguisher  |
| 1 | Condensate Storage Tank Vent   |
| 1 | Demineralized Storage Tank Vent  |
| 4 | Flame Scanner Air Vents  |
| 2 | Safety Relief Vent's (Auxiliary Steam Line)                            |
| 3 | Feedwater Heaters with Steam Side and Water Side                       |
|   | Safety Relief Valves and Vents   |
| 1 | Flash Tank and Vent  |
| 2 | Auxiliary Steam System Vents   |
| 1 | Steam Jet Air Ejector Vent   |
| 4 | Condenser Water Box Vents  |
| 1 | Lube Oil Filter Vapor Extractor  |
| 1 | Lube Oil Tank Vapor Extractor  |
| 1 | Seal Oil Tank Vapor Extractor  |
| 2 | BFP Vents  |
| 2 | Natural Gas Vents  |
|   | CO <sub>2</sub> , H <sub>2</sub> Vents - (top & bottom generator vents |
|   | CO <sub>2</sub> Fan Vent - (top & bottom generator vents)              |
| 1 | Gland Seal   |
| 1 | Air Compressor   |
| 2 | Air Receiver Tanks   |
|   | Incoming Natural Gas Supply Station                                    |
| 1 | Regulating Vent  |
| 1 | Safety Relief Vent - 2 Vents   |

## PROPOSED EXEMPT ACTIVITIES

## Units Within S-5

| 1 | Flash Tank  |
|---|---|
| 4 | Gas Cylinders N <sub>2</sub>  |
| 2 | Natural Gas Intake Header with 1 Safety Relief Vent and 1 Plugged Drain |
| 3 | Fire Extinguisher   |
| 2 | Boiler Feed Pump Vents  |
| 1 | Lube Oil Filter Vapor Extractor   |
| 1 | Gland Seal Vapor Extractor  |
| 2 | Chemical Mixing Tanks - Not Sealed                                      |
| 4 | Water Treatment Tanks - 1 Vent each                                     |
|   | Demineralizer, Carbon Filter, Anion, Cation                             |
| 2 | Condenser Water Box   |
| 1 | Service Air Receiver Vent   |
| 1 | Service Air Receiver Safety Relief Vent                                 |
| 1 | Instrument Air Receiver Vent  |
| 1 | Instrument Air Receiver Safety Relief Vent                              |
| 1 | Steam-Jet Air Ejector Vent  |
| 1 | Condensate Storage Tank Vent  |
| 1 | Demineralized Water Storage Tank Vent                                   |
| 2 | High Pressure Steam Drum Safety Relief Vent                             |
| 1 | High Pressure Steam Drum Vent   |
| 2 | Low Pressure Steam Drum Safety Relief Vent                              |
| 1 | Low Pressure Steam Drum Vent  |
| 2 | Deaerator Safety Relief Vent's  |
| 1 | Deaerator Orifice Vent  |
| 3 | Roof Vents  |
| 1 | Main Steam Safety Relief Vent (from steam drum)                         |
| 1 | Bathroom Vent   |
| 1 | Turbine Lube Oil Tank Vapor Extractor                                   |
|   | Batteries   |
| 1 | 5000 gal Caustic Storage Tank   |
| 1 | 5000 gal Sulfuric Acid Storage Tank                                     |
|   |   |

## Units Within CGT - 1

| 1 | Instrument Air Receiver with 1 Safety Relief Vent |
|---|---|
|   | Halon 1301 Freon FE 1301 Fire Protection System   |
|   | Monobromo Trifluoromethane, Spherical Tanks       |
| 1 | Lube Oil Tank Vapor Extractor                     |
| 1 | Mechanical Enclosure Vent Fan                     |

Turbine Enclosure Vent Fan

#### PROPOSED EXEMPT ACTIVITIES

#### Units Within CGT-2

| 2 | Inlet Filter Inertial Separator Vents                     |
|---|---|
| 2 | Fire Extinguisher   |
| 1 | Air Conditioner   |
| 1 | Lube Oil/Gear Reducer Vapor Extractor Stack - Turbine Top |
| 2 | Pressurized Air   |
| 1 | Diesel Engine Exhaust                                     |

#### Units Within MU 1 - 5

1

1

5

| 10 | Fire Extinguisher        |
|----|--------------------------|
| 2  | Sumps                    |
| 1  | Oil Water Separator Vent |

#### Units Within Mechanical Parts Warehouse

Solvent Storage in Black Cabinet Spray Paint in Black Cabinet Grease Solvent in Black Cabinet Flux in Black Cabinet Welder Fire Extinguisher

5 O<sub>2</sub>, Acetylene Tanks Bucket of Asbestos Sealer 1

Bags of Adsorbent

4 **Buckets of Hydraulic Cement** 3 Drums of 90 Wt Gear Oil

1 Welder

1 Liquid Propane Gas Cylinder

## PROPOSED EXEMPT ACTIVITIES

## Units Within Western Plant Area

|   | S-5 Cooling Tower   |
|---|---|
|   | S-5 Chemical Building                                     |
| 1 | Nalco 7330 Biocide Drum                                   |
| 1 | Sulfuric Acid Drum  |
|   | No. 2 and No. 5 Containment Area                          |
| 2 | Sumps   |
| 1 | Oil Water Separator with Vent                             |
|   | Hydrogen Building with Vent                               |
|   | Chemical Storage Area                                     |
|   | Sealed Drums of Lubricants, Solvents and etc.             |
|   | S-1 Cooling Tower   |
|   | S-1 Chlorine Building with Vent                           |
|   | S-3 Chlorine Building with Vent                           |
|   | 2200 Gal Sodium Hypochlorite Tank with Safety Relief Vent |
|   | S-3 Boiler Water Tank with Vent                           |
|   | Motor Vehicles  |
|   | Trucks  |
|   | Bobcats   |
|   | Natural Gas Piping and Fittings                           |

## **WATER TREATMENT FACILITY:**

Air Conditioner

|    | Lime Unloading System Percolation Pond Solids Loading      |
|----|--|
|    | Anhydrous Ammonia Storage Tank with 2 Safety Relief Vent's |
| 16 | Chlorine Gas Cylinders                                     |
| 1  | Water Tank with Vent                                       |
| 4  | Water Reservoir Vents                                      |
|    | Water Settling Bays  |
|    | Water Treatment Bldg.                                      |
|    | Storage Room   |
|    | Paint Cans   |
|    | Solvents   |
|    | Absorbents   |
| 2  | Lawn Mowers  |
| 1  | Weed Wacker  |
|    | Fertilizer   |
|    | Machine Shop   |
| 1  | Grinder  |
| 1  | Drill Press  |

#### PROPOSED EXEMPT ACTIVITIES

| 1   | Kitchen Vent                    |
|-----|---------------------------------|
| 1   | Lab Hood Vent                   |
| 6   | Chlorine Cylinders              |
|     | Phosphate Room                  |
| 1   | Phosphate Tank                  |
| 1.3 | Pallets of Scale Inhibitor      |
| 3   | Lime Slakers                    |
| 1   | Polymer Mixing Tank - 1268 Gal. |
| 3   | Air Conditioners                |
| 1   | Fire Extinguisher               |
| 1   | Vacuum Lime Conveyor            |

## **Dispatch Center**

- 2 Liquid Propane Gas Emergency Generators storage tank and piping system
- 1 Blue Print Operations

#### LIST OF ACTIVITIES THAT MAY BE TREATED AS "TRIVIAL"

The following types of activities and emissions units may be presumptively omitted from part 70 permit applications. Certain of these listed activities include qualifying statements intended to exclude many similar activities.

Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.

Air-conditioning units used for human comfort that do not have applicable requirements under title VI of the Act.

Ventilating units used for human comfort that do not exhaust air pollutants into the ambient air from any manufacturing/industrial or commercial process.

Non-commercial food preparation.

Consumer use of office equipment and products, not including printers or businesses primarily involved in photographic reproduction.

Janitorial services and consumer use of janitorial products.

Internal combustion engines used for landscaping purposes.

Laundry activities, except for dry-cleaning and steam boilers.

Bathroom/toilet vent emissions.

Emergency (backup) electrical generators at residential locations.

Tobacco smoking rooms and areas.

Blacksmith forges.

Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not

otherwise triggering a permit modification.1

Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.

Portable electrical generators that can be moved by hand from one location to another<sup>2</sup>.

Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.

Brazing, soldering and welding equipment, and cutting torches related to manufacturing and construction activities that do not result in emission of HAP metals.<sup>3</sup>

Air compressors and pneumatically operated equipment, including hand tools.

Batteries and battery charging stations, except at battery manufacturing plants.

Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP.4

<sup>&#</sup>x27;Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise required.

<sup>&</sup>lt;sup>2</sup>"Moved by hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.

<sup>&</sup>lt;sup>3</sup>Brazing, soldering and welding equipment, and cutting torches related to manufacturing and construction activities that emit HAP metals are more appropriate for treatment as insignificant activities based on size or production level thresholds. Brazing, soldering, welding and cutting torches directly related to plant maintenance and upkeep and repair or maintenance shop activities that emit HAP metals are treated as trivial and listed separately in this appendix.

<sup>&</sup>lt;sup>4</sup>Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.

Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.

Equipment used to mix and package, soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.

Drop hammers or hydraulic presses for forging or metalworking.

.**6**/2/201

Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.

Vents from continuous emissions monitors and other analyzers.

Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.

Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.

Equipment used for surface coating, painting, dipping or spraying operations, except those that will emit VOC or HAP.

CO, lasers, used only on metals and other materials which do not emit HAP in the process.

Consumer use of paper trimmers/binders.

Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.

Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants.

Laser trimmers using dust collection to prevent fugitive emissions.

Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents.<sup>5</sup>

<sup>&</sup>lt;sup>5</sup>Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.

Routine calibration and maintenance of laboratory equipment or other analytical instruments.

Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.

Hydraulic and hydrostatic testing equipment.

Environmental chambers not using hazardous air pollutant (HAP) gasses.

Shock chambers.

Humidity chambers.

Solar simulators.

Fugitive emission related to movement of passenger vehicles, provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.

Process water filtration systems and demineralizes.

Demineralized water tanks and demineralizer vents.

Boiler water treatment operations, not including cooling towers.

Oxygen scavenging (de-aeration) of water.

Ozone generators.

Fire suppression systems.

Emergency road flares.

Steam vents and safety relief valves.

Steam leaks.

Steam cleaning operations.

Steam sterilizers.

ALTERNATE MODES OF OPERATION (EMISSION TRADING)

#### **ALTERNATE MODES OF OPERATION**

The City of Lake Worth request the approval of an Alternative Mode of Operation for Steam Units 3 and 4. These two units are subject to the Federal Acid Rain Program, Phase II, limiting the total annual tons of SO2 emissions to the total number of allowances allocated to and obtained by the City of Lake Worth.

- A. Emission Units Subject to Trading: Steam Units 3 and 4
- B. Air Pollutant of Concern: Sulfur Dioxide
- C. Compliance Method: Continuous Emissions Monitors

ATTACHMENT I
COMPLIANCE REPORT

## ATTACHMENT I LAKE WORTH UTILITIES TITLE V APPLICATION COMPLIANCE REPORT

Lake Worth Utilities is in compliance with the applicable requirements listed in the facility specific and emission unit specific permit application.

#### In summary:

This permit application for the initial Title V permit application is being submitted prior to the 06/15/96 deadline.

There have been no modifications to this facility which would require changes to any current permit conditions.

The facility has adhered to all current permit conditions.

The test notification and reporting requirements of the current permit have been met. The required annual visible emissions tests have been performed as required by the current permit and all levels are within the permitted limit. The fuel sampling analysis were conducted and the percent sulfur for S-3 and S-4 are less than the 2.25% sulfur limit. The percent sulfur within CC1's fuel was less than the 0.35%S limit.

Compliance with the NOx RACT emission limits have been demonstrated through stack test data. The data indicated that the diesels are in compliance with the 4.75 lb/MMBTU limit, the combustion turbines are in compliance with the 0.9 lb/MMBTU limit when firing oil (GT2 & CC1) and 0.50 lb/ MMBTU when firing natural gas (CC1) and the boilers are in compliance with the 0.50 lb/ MMBTU limit.

The Annual Operating Report (AOR) for the calendar year 1995 was submitted on February 25, 1996.

The annual compliance statement is in Attachment J. It will be submitted Annually with the AOR.

ATTACHMENT J
COMPLIANCE STATEMENT

## ATTACHMENT J LAKE WORTH UTILITIES TITLE V APPLICATION COMPLIANCE STATEMENT

I, the undersigned, am the responsible official as defined in Chapter 62-213, F.A.C., of Lake Worth Utilities, a Title V source, for which this report is being submitted. I hereby certify, based on the information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate, and complete. To the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. Further, I agree to operate and maintain the air pollutant emissions units and air pollution control equipment described in this application so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof.

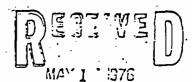
Signature

Ďate ´

ADDITIONAL APPLICABLE REQUIREMENTS

State of Florida Department of Environmental Regulation Lake Worth Utilities Authority Unit S-5
Case No. PA-74-05
CONDITIONS OF CERTIFICATION (Proposed 11-19-75)

#### GENERAL



PALM BEACH COUNTY HEALTH DEPT.

#### Table of Contents

|     |                                     |   | Page |
|-----|-------------------------------------|---|------|
| 1.  | Change in Discharge                 |   | 1    |
| 2.  | Noncompliance Notification          | • | 1    |
| 3.  | Facilities Operation                |   | . 1  |
|     | Adverse Impact                      |   | 2    |
|     | Right of Entry                      |   | 2    |
|     | Revocation or Suspension            |   | 2    |
| 7.  | Civil and Criminal Liability        |   | . 2  |
| 8.  | Property Rights                     |   | 3    |
| 9.  | Severability                        | • | 3    |
| 10. | Pollutants .                        |   | . 3  |
| 11. | Réview of Site Certification        |   | 3    |
| 12. | Modifications of Special Conditions |   | 4    |

EXPIBIT "C"

State of Florida Department of Environmental Regulation Lake Worth Utilities Authority Unit S-5
Case No. PA-74-05
CONDITIONS OF CERTIFICATION (Proposed 11-19-75)

#### GENERAL

## 1. Change in Discharge

All discharges or emissions authorized herein shall be consistent with the terms and conditions of this certification. The discharge of any pollutant not identified in the application, or more frequent than, or at a level in excess of that authorized herein, shall constitute a violation of the certification. Any anticipated facility expansions, production increases, or process modifications which will result in new, different or increased discharges of pollutants or expansion in steam generating capacity must be reported by submission of a new application.

#### 2. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any limitation specified in this certification, the permittee shall notify the Central and Southern District Manager of the Department by telephone during the working day that said noncompliance occurs and shall confirm this in writing within seventy-two (72): hours of becoming aware of such conditions, and shall supply the following information:

- a. A description of the discharge and cause of non-compliance; and
- b. The period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

## 3. Facilities Operation

The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this certification.

#### 4. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact resulting from noncompliance with any limitation specified in this certification, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

#### 5. Right of Entry

The permittee shall allow the Secretary of the Florida Department of Environmental Regulation and/or authorized representatives, upon the presentation of credentials:

- To enter upon the permittee's premises where an effluent source is located or in which records are required to be kept under the terms and conditions of this permit; and
- b. To have access to and copy any records required to be kept under the conditions of this certification; and
- c. To inspect any monitoring equipment or monitoring method required in this certification and to sample any discharge or pollutants.

#### 6. Revocation or Suspension

This certification may be suspended or revoked pursuant to Section 403.512, Chapter 403, Florida Statutes, or for Violations of any General or Special Conditions.

## 7. Civil and Criminal Liability

This certification does not relieve the permittee from civil or criminal penalties for noncompliance with any condition of this certification, applicable rules or regulations of the Department or Chapter 403, Florida Statutes, or regulations there under.

Subject to 403.511 this certification shall not preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other applicable State Statutes, or regulations.

#### 8. Property Rights

The issuance of this certification does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations. The applicant will obtain title, lease or right of use from the State of Florida, to any sovereign submerged lands occupied by intake or discharge structures.

#### 9. Severability

The provisions of this certification are severable, and if any provision of this certification or the application of any pro0 vision of this certification to any circumstances, is held invalid, the application of such provision to other circumstances and the remainder of the certification shall not be affected thereby.

#### 10. Pollutants

If any applicable state effluent or emission standard or prohibition (including any schedule of compliance specified in such effluent or emission standard or prohibition) is established for a pollutant which is in this certification and such standard or prohibition is more stringent than any limitation for such pollutant in this certification, this certification shall be revised in accordance with the new effluent or emission standard or prohibition and the permittee so notified, unless a variance is or has been obtained pursuant to Chapter 403, Florida Statutes. In the application of such later adopted standards this paragraph shall not be considered in determining whether or not the Unit S-5 is classified as a new source or as an existing source if such distinction is made within the later adopted standard.

#### 11. Review of Site Certification

The certification shall be final unless revoked or suspended pursuant to law. Five years from the date of issuance of any National Pollutant Discharge Elimination System Permit issued carsuant to the Federal Water Pollution Control Act Amendments of 1972, for the plant units, the Department shall review all monitoring data that has been submitted to it during the preceding five year period for the purpose of determining the extent of the permittee's compliance with the conditions of this certification and the environmental impact of this facility. The Department shall submit the results of its review and recommendations to the Permittee and all parties of record in this certification proceeding. This review will be repeated every five years thereafter.

## 12. Modifications of Special Conditions

The Department may modify the provisions of the special conditions dealing with sampling, monitoring, reporting, and specifications for control equipment or related time schedules as necessary to attain the objectives of Chapter 403, F.S., upon mutual agreement with the applicant. Such modifications and agreement shall be in writing. Such modifications will not take effect until after notice to all parties of record and until after a public notice giving a period of thirty days for public review and comment. The Secretary shall provide opportunity for a public hearing on the proposed modifications prior to taking final agency action.

EXHIBIT "C" 5 of 9

| State of Florida Department of Env  | ironmental Regulation | r |
|-------------------------------------|-----------------------|---|
| Lake Worth Utilities Authority      | _                     |   |
| Unit S-5                            |                       | • |
| Case No. PA 74-05                   | •                     |   |
| CONDITIONS OF CERTIFICATION (Propos | sed 11-18-75)         |   |

#### SPECIAL

## Table of Contents

|      | 그는 본문 사용함                            |   | Page  |
|------|--------------------------------------|---|-------|
| I.   | Air                                  |   | · 1   |
| II.  | Water                                |   | <br>2 |
|      | A. Pretreatment Standards            |   | <br>2 |
|      | B. In-Plant Water Monitoring Program | ٠ | 3     |
| III. | Stormwater Runoff                    |   | 3     |
| IV.  | Solid Wastes                         |   | З.    |
| v.   | Special Study                        |   | 3     |
|      |                                      |   |       |

EXHIBIT "C'

# BEST AVAILABLE COPY

State of Florida Department of Environmental Regulation Lake Worth Utilities Authority Unit 5-5 Case No. PA 74-05 CONDITIONS OF CERTIFICATION (Proposed 11-18-75)

#### SPECIAL

#### I. Air

The construction and operation of the Unit S-5 shall be in compliance with all applicable provisions of Chapters 17-2, 17-5 and 17-7, Florida Administrative Code, and the permittee shall comply with the following conditions of certification:

- 1. Fuel consumed should contain not more than 2.25% sulfur in Units S-3 and S-4 nor more than 0.35% sulfur in Unit S-5.
- 2. The boiler exhaust stack shall be not less than 75 feet above grade.
- 3. The permittee shall provide sampling ports into the stack and will provide access to the sampling ports by a ladder and platform or by temporary means as well as such temporary facilities as may be requested by the Department of Environmental Regulation in order that stack sampling may be accomplished.

The permittee shall install and operate continuous monitoring devices on the stack for sulfur dioxide, opacity and nitrogen oxides. Records of such monitoring shall be available for inspection. Calculation of  $50_2$  emissions in accordance with the procedures outlined in Section 60.45, of 40 CFR, Part 60, may be utilized instead of the continuous  $50_2$  monitor.

The permittee shall install and operate two ambient air monitoring devices for sulfur dioxide and two particulate samplers. The location of these ambient air samplers shall be as determined by the Palm Beach County Health Department, Division of Environmental Sciences and Engineering. The data collected will be reported to the County Health Department quarterly by the 20th of each subsequent month. The permittee shall institute the monitoring program one year prior to operation of Unit S-5.

The permittee shall maintain an hourly log of fuels used and copies of fuel analyses containing information of sulfur content and heating value to enable calculations of emissions.

A STANTANT S

EXHIBIT "C'

\_7\_

#### II. Water

#### A. Pretreatment Standards

Wastcwater discharged from Unit S-5 to the Lake Worth municipal sewerage system shall comply with Annex III of the Sewer Service Agreement between the Lake Worth Utilities Authority and the City of West Palm Beach and the pretreatment standards for new sources as contained in 40 CFR, Part 423.16 and amendments. The latter is set forth as follows:

EPA Pretreatment Standards and Standards of Performance for New Sources

#### Parameter

Avg. 30-Day, Daily Value

a) Low Volume Waste (40 CFR, Part 423.15(c))

(ion exchange water treatment systems, floor drainage, sample drains, cooling tower basin cleaning wastes, and similar wastes)

TSS
Oil and Grease

30 mg/l. 15 mg/l

b) Metal Cleaning Wastes (40 CFR, Part 423.15(f))

TSS 30 mg/l
Oil and Grease 15 mg/l
Copper, Total 1.0 mg/l
Iron, Total 1.0 mg/l

c) Boiler Blowdown (40 CFR, Part 423.15(g))

Same limits as for b) Metal Cleaning Wastes.

d) Cooling Tower Blowdown (40 CFR, Part 423.15(i))

Zinc Chromium no detectable amount no detectable amount

Materials for corrosion inhibition

no detectable amount

- e) The pH of all discharges shall be within the range of 6.0 9.0.
  - f) There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid, or other toxic substances.

EXHIBIT "C" 8 of 9

#### B. In-Plant Water Monitoring Program

A monitoring program shall be undertaken by the Lake
Worth Utilities Authority on the affluent streams within
the facility to determine compliance by Unit S-5 with
the applicable pretreatment standards.

#### III. Stormwater Runoff

During construction and operation, necessary measures shall be employed to settle, filter or absorb silt so that the runoff shall not exceed 50 mg/l of suspended solids. Such measures may include sediment traps, barriers and the use of berms or vegetation. Exposed or disturbed soil shall be sodded as soon as possible to minimize silt and sediment runoff into waters of the State.

#### IV. Solid Wastes

Solid wastes generated by the construction or operation of the facility shall be handled and disposed of in conformance with Chapter 17-7, FAC. Open burning will not be allowed.

#### V. Special Study

The Lake Worth Utilities Authority shall conduct a special study and furnish to the Department by January 31, 1977; a contingency plan to increase the intertie capability with Florida Power and Light Company in order to produce a source of electricity in the event that gaseous or liquid fuels become uneconomical or unavailable for continued operation of Unit S-5 in compliance with the conditions of certification.

EXHIBIT "C"

# BEFORE THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Mesoing Boyd Green & Sums

In Re:

City of Lake Worth
Unit S-5
Modification of Certification
No. PA 74-05
Palm Beach County, Florida

# FINAL ORDER MODIFYING CONDITIONS OF CERTIFICATION

On July 17, 1987, the City of Lake Worth submitted a proposed agreement to modify the Conditions of Certification for Unit S-5, to allow a change in the continuous air emissions monitoring procedures.

This proposed agreement was submitted pursuant to Section 403.516(1), F.S., and General Condition 12 of the Conditions of Certification, which delegated modifications of sampling, monitoring and reporting conditions to the Department.

On August 5, 1987, a Notice of Proposed Agency Action was served on all parties with a provision that a hearing would be held if requested on or before September 21, 1987. No hearing was requested. Therefore,

IT IS ORDERED:

4 4 12 SAM

The Department hereby grants relief to the City of Lake Worth by making the following modifications to the Conditions of . Certification:

Special Conditions 1.4., 1.5. and 1.7. are modified to read as follows:

1.4.a. The permittee shall demonstrate compliance with the fuel sulfur content limits in Specific Condition 1.1. through sampling and analysis of as-fired fuel oil. The sampling shall be conducted for each day of operation firing fuel oil, and analysis of the samples composited for each unit shall be conducted monthly. Fuel oil analysis reports shall be submitted quarterly.

- 1.4.b. A visible emissions (VE) test shall be conducted annually using EPA Reference Method 9, to determine compliance with the VE limits of 20% opacity.
- 1.5. On or before March 1st of each calendar year, a completed Annual Operation Report Form for Air Emissions Sources shall be submitted. Calculations sha;; be shown.
- 1.7. Copies of all reports, tests, notifications or other submittals required by Florida Administrative Code rules or conditions of this certification shall be submitted to both the Southeast Florida District Office and the Palm Beach County Health Department, Division of Environmental Science and Engineering.

Any party to this Order has the right to seek judicial review of this Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida, 32399-2400, and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Order is filed with the clerk of the Department.

DONE AND ORDERED this \_\_\_\_\_ day of September, 1987 in Tallahassee, Florida.

FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to \$120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

**金属 基本的** 

Clerk

9-25-97 Date

STATE OF FLORIDA DEPARTMENT OF ENY-TRONMENTAL REGULATION

Willmelle Dale Twachtmann

Secretary

Twin Towers Office Building 2500 Blair Stone Road

Tallahassee, Florida 32399-2400

Telephone: 904/488-4805

#### CERTIFICATE OF SERVICE

I HEREBY CERTIFY that copies of the foregoing FINAL ORDER MODIFYING CONDITIONS OF CERTIFICATION were furnished by United States Mail, to all counsel of record listed on the attached service list, on the 2941 day of Leath 1987.

Julia C. Costas Assistant General Counsel Copies furnished to:

Larry Keesey
Department of Community Affairs
2571 Executive Center Circle E.
Tallahassee, Florida 32301

Michael Twomey
Public Service Commission
101 East Gaines Street
Tallahassee, Florida 32301

Peter C. Cunningham Suite 420 First Florida Bank Building Post Office Box 6526 Tallahassee, Florida 32314

BEFORE THE GOVERNOR AND CABINET

OF THE STATE OF FLORIDA

DEGEIVE MAY 1 5 1978

Division of Environmental Engineer
PALM BEACH COUNTY
HEALTH DEPY

In the Matter of:

LAKE WORTH UTILITIES AUTHORITY )
Application for Power Plant )
Site Certification, Lake Worth, )
Palm Beach County, Florida; )
Application No. PA-74-05. )

CASE NO. 75-1774

The following persons were present and participated in the disposition of this matter:

Honorable Reubin O'D. Askew Governor

Honorable Bruce A. Smathers . Secretary of State

Honorable Robert L. Shevin Attorney General

Honorable Philip F. Ashler Treasurer and Insurance Commissioner

Honorable Gerald A. Lewis Comptroller

Honorable Doyle Conner Commissioner of Agriculture

Honorable Ralph D. Turlington Commissioner of Education

ORDER ADOPTING HEARING OFFICER'S ORDER RECOMMENDING CERTIFICATION SUBJECT TO CONDITIONS

#### BY THE GOVERNOR AND CABINET:

4 1.29

The Governor and Cabinet having heard statements by the parties, reviewed the recommended order dated March 17, 1976, (attached and incorporated by reference as Exhibit "A") and order dated March 26, 1976, (attached and incorporated by reference as Exhibit "B") as well as copies of the general and special conditions (attached and incorporated by reference as

Exhibit "C") and having been otherwise advised in the premises of said order by their respective staffs, it is,

#### ORDERED:

- 1. The March 17, 1976 recommended order and March 26, 1976 order are adopted.
- 2. The general and special conditions submitted by the Department of Environmental Regulation are adopted.

ORDERED this 18th day of May, 1976 at Tallahassee, Florida at a duly constituted meeting of the Governor and Cabinet.

FOR THE GOVERNOR AND FLORIDA CABINET:

TEURIN O'D. ASKEW

Governor

VOTE:

FOR .

CONTRACTOR OF THE SECOND

AGAINST

Honorable Reubin O'D. Askew Honorable Bruce A. Smathers Honorable Robert L. Shevin Honorable Philip F. Ashler Honorable Gerald A. Lewis Honorable Doyle Conner Honorable Ralph D. Turlington

Copies Furnished To:

All Parties of Record

## STATE OF FLORIDA DIVISION OF ADMINISTRATIVE HEARINGS

In re: Lake Worth Utilities
Authority Application for
Power Plant Site Certification,
Lake Worth, Palm Beach County,
Florida, Application No. PA-74-05.

日本の大学を含まれていたのでであってきた日本教徒

÷:.

The second secon

385. 30

Case No. 75-1774

## FINDINGS OF FACT, CONCLUSIONS OF LAW AND RECOMMENDED ORDER

This proceeding is held pursuant to the Florida Electrical Power Plant Siting Law, Chapter 403, Florida Statutes, to consider the application for site certification of Unit S-5 of the Lake Worth Utilities Authority, City of Lake Worth, Florida, known as the "Tom G-Smith Municipal Power Plant, Unit S-5."

Pursuant to proper notice, the additional public hearing required in this matter by Section 403:508(3), Florida Statutes, was held in Lake Worth, Florida, on December 9, 1975, at 9:00 a.m. and ending at 10:45 a.m. The purpose of this hearing was to take testimony and evidence concerning whether the location and operation of the proposed facility will produce minimal adverse effects on human health, the environment, the ecology of the land and its wildlife and the ecology of state waters and their aquatic life.

The hearing included an examination of the following: the necessity for expanded electrical generation; the expected environmental impact of the facility; the operational safeguards of the facility; the availability of abundant, low-cost electrical energy; and other public interests and issues relevant to certification of the proposed site.

The following parties entered appearances at and participated in the hearing through counsel or representatives:

- 1. Department of Environmental Regulation.
- 2. Lake Worth Utilities Authority, City of Lake Worth, Florida.
- 3. Florida Public Service Commission.
- 4. State of Florida, Department of Administration, Division of State Planning.

After consideration of all pleadings, memoranda of law, and proposed findings, conclusions and recommendations, as well as all

testimony and evidence properly admitted herein, the following

Findings of Fact, Conclusions of Law and Recommended Order are entered.

All proposed findings, conclusions and recommendations not incorporated directly or inferentially herein are rejected as being unsupported in law or in fact or unnecessary to the rendering of this Recommended Order.

#### FINDINGS OF FACT

والمراقعة والمتحرب والمتحرفة

- 1. The site for the proposed combined cycle generating facility, hereinafter referred to as Unit S-5, is part of the existing 22-acre utility complex located near the western edge of the City of Lake Worth, Florida.. This site, which has been used by the Lake Worth Utilities Authority for electrical power generation for over 25 years, is shared by the power plant, water treatment plant, public works department and various other municipal agencies. The site is bounded by public use areas, such as the Lake Worth Senior and Junior High School and athletic field on the north and east, the Seaboard Coast Line Railroad right-of-way and Interstate Highway 95 on the west and the Lake Worth Utilities Authority water treatment plant on the south. The most significant visual inange to be caused by the addition of Unit S-5 to this site will be the addition of a 75 foot high exhaust stack and the mechanical draft cooling tower. Both of these structures will be, in large part, masked by the I-95 elevated roadway, which dominates the skyling in the area of the site.
- 2. Unit S-5, as proposed, will be of the combined cycle type, nominally rated at 29.5 megawatts. The unit will basically consist of a gas turbine-generator unit, unfired heat recovery steam generator, and steam turbine-generator unit and auxiliaries. The unit will utilize a cooling tower as is presently being done for the four existing steam units already on site.
- 3. Operating at designed capacity, Unit S-5 will use an estimated 346,000 gallons of water per day through 1982. It is similarly estimated that, operating at designed capacity, 28,000 gallons of water per day would be discharged as cooling tower blow-down, boiler blow-down and demineralizer backwash. The applicant estimates that the average

water use of Unit S-5 will be 201,000 gallons per day, which is approximately 3.8 percent of the 1978 projected average daily output of the Lake Worth Utilities Authority water plant, from which the water will be taken. The Lake Worth Utilities Authority water plant has a total design capacity of 25 million gallons per day.

- 4. The design of Unit S-5 will allow operation on both gaseous and/or liquid fuels. Natural gas and number two diesel oil will be the fuels fired in this unit. The presently existing fuel facilities and supply arrangements are sufficient to provide the fuel needs of Unit S-5.
- 5. Unit S-5, as designed, will be a highly efficient generator of electricity. It would allow the Lake Worth Utilities Authority to produce electricity at a lower cost by consuming less fuel per unit of electricity produced. According to the applicant's projections, the net savings in system operating costs would range from \$70,000 to \$500,000 per year depending upon fuel costs and fuel availability. The applicant presented unrebutted testimony showing that, because of the efficiency of the proposed unit, annual fuel savings could be as high as the equivalent of 860,000,000 cubic feet of natural gas or 5,370,000 gallons of Jil. Further, operation of Unit S-5 would result in a substantial reduction in power plant water consumption.
- 6. The applicant, Lake Worth Utilities Authority, has shown, by unrobutted testimony, that Unit S-5 will be highly efficient in operation and result in a substantial savings in operating costs should 1t come on line in 1978.
- 7. As shown by the staff report of the Department of Environmental Regulation, Composite Exhibit 3, the construction of Unit S-5 will have minimal impact on the environment because of the previous impact of construction of the existing units already on site. Further, normal operation of the unit, as proposed, at worst, will cause a minimal increase in environmental impact over that caused by existing units. When displacement of older, less efficient units occur, Unit S-5 may reduce the overall environmental impact of the plant site. The unit is designed to operate in compliance with all applicable state and federal environmental standards and regulations.

如此的时间,我们就是我们的一个时间,我们就是我们的一个时间,我们就是我们的一个时间,我们也会会会会会会会会会会会会会会会会会会会会会会会会会会会会会会会会会会会

Committee of the second

8. The Florida fublic Service Commission is required by Section 403.57, Florida Statutes, to prepare a report and recommendation as to the present and future needs for electrical generating capacity in the area to be served by the proposed site. Such a report and recommendation was prepared and submitted as required by statute in this proceeding.

- 9. The Public Service Commission found the area to be served by Unit S-5 to be an area containing approximately 11 square miles, which includes the City of Lake Worth and vicinity, as defined in the territorial agreement dated March 6, 1972, between Florida Power and Light Company and the Lake Worth Utilities Authority.
- 10. Oue primarily to the severe depression of the state economy and the price increases in the cost of fuel oil, the Florida Public Service Commission report finds that the annual growth rates in demand for electricity have been reduced. Using what it termed a "realistic" growth rate of 7.5 percent annually and a minimal growth rate of 5.75 percent annually, the Florida Public Service Commission concluded that a need for the additional generating capacity to be provided by Unit S-5 would not exist until 1982 to 1984. Consequently, the Commission concluded that a need for the generating capacity for Unit S-5 will not exist in 1978, the year in which the applicant proposes to bring the unit on line. However, the Commission's report notes that they have considered summaries of an economic analysis submitted by the Lake Worth Utilities Authority which showed that, due to the greater efficiency of the proposed unit, the savings in operating the system with this new unit would more than offset the cost to build it. Noting that the Commission staff reviewed these summaries and performed an analysis of their own for a range of generating efficiencies and fuel costs, the report concludes that the assumptions for this analysis were reasonable and that, based on these assumptions, there is an economic advantage when operating with the proposed Unit S-5, even though a need to meet demand may not exist at the time the unit is to come on line.
- 11. A need for the generating capacity of Unit S-5 will not exist until 1982 to 1984.

- Administration has reviewed the 1975 ten-year site plan of the Lake Worth Utilities Authority with regard to proposed Unit S-5. The report of the Division of State Planning notes that the Division concurs with the Public Service Commission in its assessment that need for the generating capacity will not exist in 1978. However, the report notes that it has no basis for disagreement with the applicant's calculations that bringing Unit S-5 on line would provide power cheaper than can the present system. Therefore, the Division's report concludes that the ten-year site plan of the Lake Worth Utilities Authority, as amended by the final version of its site certification request, is suitable, and recommends that the proposed plan be certified.
  - 13. There will be no new associated transmission facilities involved in the construction and operation of Unit S-5. Existing transmission facilities will be utilized.
- Regulation concludes that if Unit S-5 can produce electricity at a significantly lower cost and thereby justify that the unit is necessary environmentally, Unit S-5 appears acceptable. It further concludes that if Unit S-5 is needed, and consilering the slight environmental impacts of Unit S-5, the site is suitable at present and certification could be granted subject to proper conditions.

- Conditions of Certification and Special Conditions of Certification, which the Department of Environmental Regulation have proposed be made applicable to this facility if certified. The applicant, Lake Worth Utilities Authority, has stipulated and agreed that the General and Special Conditions of Certification, as proposed, should be imposed if certification is granted.
- 16. As shown by Florida Pollution Control Board Order No. 75-2, dated February 10, 1975, Exhibit 7, the Florida Pollution Control Board, pursuant to Chapter 403, Florida Statutes, found that the proposed site for Unit S-5 is consistent and in compliance with existing land use plans and zoning ordinances.
- 17. At the conclusion of the presentation by the parties to this proceeding, opportunity was given to the general public to comment

upon the application for site certification. No one appeared to make comment.

#### CONCLUSIONS OF LAW

- 18. This proceeding was held pursuant to the Florida Electrical Power Plant Siting Law, Chapter 403, Florida Statutes, and Chapter 17-17, Florida Administrative Code, to consider the Lake Worth Utilities Authority application for power plant site certification of Unit S-5, located in Lake Worth, Palm Beach County, Florida.
- 19. Notice, in accordance with Chapter 403 and 120, Florida Statutes, and Chapter 17-17, Florida Administrative Code, has been given to all persons and parties entitled thereto, as well as to the general public:
- 20. The purpose of this proceeding was to take testimony and evidence concerning whether the location and operation of the proposed facility will produce minimal adverse effects on human health, the environment, the ecology of the land and its wildlife, and the ecology of state waters and their aquatic life and to fully balance the increasing demands for electrical power plant location and operation with the broad interests of the p.b.ic, as provided in Chapter 403. Florida Statutes.
- 21. The record of this hearing consists of all pleadings and papers filed herein, the transcript of the Final Hearing, all Orders entered by the Hearing Officer, and all evidence and exhibits admitted to the record.
- 22. After this proceeding was initiated, the Florida State Legislature enacted the Florida Environmental Reorganization Act of 1975. Chapter 75-22, Laws of Florida, 1975, which took effect on July 1, 1975. This Act affected the nature and authority of the following parties to this proceeding as follows:
- (1) The Department of Pollution Control was transferred to the Department of Environmental Regulation, except for certain powers, duties and functions vested in the Governor and Cabinet.

The Act provides that the Governor-and Cabinet shall perform the duties previously vested in the Pollution Control Board of the Popartment of Pollution Control, pursuant to the Florida Electrical

Power Plant Siting Act, Sections 403.59, 403.511, 403.512 and 403.513, Florida Statutes. For those purposes, the Governor shall perform the duties of the Chairman of the Pollution Control Board, as defined in Section 403.511, Florida Statutes. Therefore, these findings of Fact, Conclusions of Law, and the Recommended Order are directed to the Governor and the Cabinet for final decision.

Section 24 of Chapter 75-22, Laws of Florida, 1975, provides that:

"No legal or administrative proceeding pending as of the effective date of this act shall be abated or delayed because of any transfer made in this act, and any department to which are transferred the powers, duties, and functions of an agency relating to a pending proceeding shall be substituted as a party in interest in such proceeding."

This administrative proceeding was panding as of the effective date of Chapter 75-22, and substitution of parties was made, as provided in Section 24 of the Act.

23. Section 403.55, Florida Statutes, provides that the Division of State Planning of the Department of Administration shall make a study of each ten-year site plan required to be submitted by each electric utility and that the Division shall classify each such plan as "suitable" or "unsuitable". The Division of State Planning has made such a study and has found that the ten-year site plan of the Lake Worth Utilities Authority, as amended by the final version of its site certification request, is suitable.

- 24. Section 403.507, Florida Statutes, requires that, upon application for site certification, the Florida Public Service Commission shall prepare a report and recommendation as to the present and future needs for electrical generating capacity in the area to be served by the proposed site and shall submit its findings to the Department of Environmental Regulation. Such a report and recommendation has been submitted and introduced into evidence in this proceeding.
- 25. The Lake Worth Utilities Authority has made a valid application for site certification pursuant to the Florida Electrical Power Plant Siting Law, Chapter 403, Florida Statutes.
- 26. The location and operation of Unit S-5, as proposed, will produce minimal adverse effects on human health, the environment,

the ecology of the land and its wildlife and he ecology of state waters and their aquatic life.

- 27. The operational safeguards I the proposed unit are technically sufficient for the welfare an protection of the citizens of Florida.
- 28. The unit, as proposed, is consonant with the premise of abundant, low-cost electrical energy.
- 29. The testimony and evidence shows that a need will exist for the generating capacity of Unit S-5 by 1982 to 1984. The construction, as proposed, of Unit S-5 for operation in 1978 will result in substantial operational cost savings during the four or more years the unit would operate prior to the existence of a definite need for its generating capacity. Therefore, it is concluded that, considering the sufficiency of the operational safeguards, the provision by Unit S-S of abundant, low-cost electrical energy, and the minimal environmental impact to result from the construction and operation of Unit S-5; a reasonable balance is effected between the environmental impact of construction of Unit S-5 for operation in 1978, and the need for the facility which will not exist until 1982 to 1984.

#### RECOMMENUED ORDER

Having reviewed the record of this proceeding, and based upon the Findings of Fact and Conclusions of Law set forth herein, it is hereby RECOMMENDED that certification, pursuant to Chapter 403, Florida Statutes, be granted the Lake Worth Utilities Authority, for the construction and operation of Unit S-5 in Lake Worth, Palm Beach County, Fiorida. It is further recommended that this certification be made subject to the General and Special Conditions of Certification as. set forth in Composite Exhibit 3.

Entered this // day of March, 1976, in Tallahassee, Florida.

CHRIS H. VENTLEY, Mearing Officer Division of Administrative Hearings Room 530, Carlton Building

Tallahassee, Florida 32304 (904) 488-9675

#### Copies furnished:

Section of the second

Joe McGlothin, Esquire Florida Public Service Commission 700 South Adams Street Tallahassee, Florida 32340

Louis F. Hubener, Esquire Attorney, Division of State Planning 600 Apalachee Parkway Tallahassee, Florida 32304

Ross A. HcVoy, Esquire Attorney, Department of Environmental Regulation 2562 Executive Center Circle, East Tallahassee, Florida 32301

James Vance, Esquire
Attorney, Lake Worth Utilities Authority
1201-A Belvedere Road
West Palm Beach, Florida

EXHIBIT "A"

STATE OF FLORIDA STATE OF FLORIDA STATE OF ADMINISTRATIVE HEARINGS

In rc: Lake Worth Utilities Authority Application for Power Plant Site Certification, Lake Worth, Palm Beach County, Florida, Application No. PA-74-05. MS 30 1976

Case No. 75-1774

OFFT. ENVIRONMENTAL REGEnvironmental Law Section

#### ORDER

Having considered the Motion for Correction dated March 23, 1976, by the Division of State Planning, it is hereby Ordered:

1. The Findings of Fact, Conclusions of Law and Recommended Order is corrected as follows: the final sentence of paragraph 12 shall read: "Therefore, the Division's report concludes that the ten-year site plan of the Lake Worth Utilities Authority, as amended by the final version of its site certification request, is suitable, and recommends that the proposed plant be certified."

DONE and ORDERED this 26 day of March, 1976, in Tallahassee, Florida.

CHO.S H. BENNLEY, nearing/Officer Division of Administrative Hearings Room 530, Carlton Building Tallahassee, Florida 32304 (904) 488-9675

Copies furnished:

Louis F. Hubener, Attorney Division of State Planning 660 Apalachee Parkway Tallahassee; Florida 32304

Joe McGlothin, Esquire
Florida Public Service Commission
700 South Adams Street
Tallahassee, Florida 32304

Ross A. McVoy, Esquire Attorney, Department of Environmental Regulation 2562 Executive Center Circle, East Tallahassee, Florida 32301

James Vance, Esquire Attorney, Lake Worth Utilities Authority 1201-A Belvedere Road West Palm Beach, Florida ATTACHMENT L
STACK TEST RESULTS

Table 2. NO<sub>x</sub> and VOC Test Results for the Generating Units at the Tom G. Smith Plant

| Unit     | Date<br>Tested | Fuel | Load<br>Condition<br>(percent) | NO <sub>x</sub><br>Emissions<br>(lb/MMBtu) | VOC<br>Emissions<br>(lb/MMBtu) |
|----------|----------------|------|--------------------------------|--|--------------------------------|
| S-1      | 7/19/93        | Gas  | 25                             | 0.161                                      | 0.00                           |
|          |                |      | 50                             | 0.172                                      | 0.00                           |
|          |                |      | 75                             | 0.199                                      | 0.00                           |
|          |                |      | 100                            | 0.215                                      | 0.00                           |
|          | 7/20/93        | Oil  | 50                             | 0.435                                      | 0.00                           |
|          |                |      | 75                             | 0.419                                      | 0.00                           |
|          |                |      | 100                            | 0.388                                      | 0.00                           |
| - CC-1   | 7/21/93        | Gas  | 50                             | 0.202                                      | 0.00                           |
|          | ·              |      | 75                             | 0.267                                      | 0.00                           |
|          |                |      | 100                            | 0.346                                      | 0.00                           |
|          | 7/23/93        | Oil  | 50                             | 0.377                                      | 0.003                          |
|          |                |      | 75                             | 0.542                                      | 0.001                          |
|          |                |      | 100                            | 0.608                                      | 0.002                          |
| CGT-1    | 7/22/93        | Oil  | 25                             | 0.386                                      | 0.00                           |
|          |                |      | 50                             | 0.498                                      | 0.00                           |
|          |                |      | 75                             | 0.625                                      | 0.00                           |
|          |                |      | 100                            | 0.791                                      | 0.00                           |
| Diesel M | 7/21/93        | Oil  | 25                             | 2.621                                      | 0.024                          |
|          |                |      | 50                             | 2.277                                      | 0.022                          |
|          |                | ı    | 75                             | 4.162                                      | 0.029                          |
|          |                |      | 100                            | 4.516                                      | 0.028                          |

Note: Units S-2, S-3, and S-4 were not tested. Unit S-2 is retired, S-3 is out of service for overhaul, and S-4 is unavailable. Only one diesel unit tested.

Table 1 Emission Summary
Steam Unit S-1
City of Lake Worth - Utilities Department
Lake Worth, Florida
July 19-20, 1993

| Run   | Time         | Lo  |      | Flow Rate | CO2  | O2%  |        | NOx Emis |           |      | VOC Emis |           |
|-------|--------------|-----|------|-----------|------|------|--------|----------|-----------|------|----------|-----------|
| Numbe | r            | *   | MW   | SCFMD     | *    |      | ppm    | lbs/Hr   | lbs/MMBTU | ppm  | lbs/Hr   | Iba/MMBTU |
| Gas F | ired - 7/19/ | 93  |      |           |      |      |        |          |           |      |          |           |
| 1     | 1037-1131    | 25  | 2.20 | 18249     | 4.6  | 13.7 | 53.20  | 6.95     | 0.161     | 0.00 | 0.00     | 0.00      |
| 2     | 1153-1242    | 50  | 4.00 | 23087     | 8.2  | 10.2 | 84.50  | 13.97    | 0.172     | 0.00 | 0.00     | 0.00      |
| 3     | 1307-1352    | 75  | 5.05 | 23950     | 10.0 | 7.6  | 122.00 | 20.93    | 0.199     | 0.00 | 0.00     | 0.00      |
| 4     | 1406-1451    | 100 | 6.50 | 25908     | 12.0 | 6.7  | 140.54 | 26.08    | 0.215     | 0.00 | 0.00     | 0.00      |
| oil F | ired - 7/20/ | 93  |      |           |      |      |        |          |           |      |          |           |
| 5     | 1630-1745    | 50  | 4.00 | 24477     | 8.0  | 11.6 | 176.46 | 30.94    | 0.435     | 0.00 | 0.00     | 0.00      |
| 6     | 1729-1815    | 75  | 5.00 | 24851     | 10.0 | 9.7  | 204.56 | 36.41    | 0.419     | 0.00 | 0.00     | 0.00      |
| 7     | 1830-1946    | 100 | 6.50 | 25979     | 12.0 | 7.1  | 233.63 | 43.47    | 0.388     | 0.16 | 0.02     | 0.00      |

 $lbs/Hr = ppm (2.595 \times 10^{-9}) MW (SCFMD) 60$ 

MW NO $_{\rm X}$  = 46, MW Carbon = 12.011

Fuel Factors

gas F = 8710 SCF/MMBTU oil F = 9190 SCF/MMBTU

lbs/MMBTU = ppm (2.595 x  $10^{-9}$ ) MW (F)  $\frac{20.9}{20.9 - \% O2}$ 

Table 2 Emission Summary
Diesel Unit M (Diesel Fuel)
City of Lake Worth - Utilities Department
Lake Worth, Florida
July 21, 1993

| Run    | Time      | Lo  | ad   | Flow Rate | CO2 | 02%  |        | NOx Emis |             |       | VOC Emiss: | ions         |
|--------|-----------|-----|------|-----------|-----|------|--------|----------|-------------|-------|------------|--------------|
| Number |           | 8   | MW   | SCFMD     | 8   |      | ppm    | lbs/Hr   | lbs/MMBTU   | ppm   | lbs/Hr     | Ibs/MMBTU    |
|        |           |     |      |           |     |      |        |          | <del></del> |       | ·          | <del> </del> |
| 1      | 1425-1525 | 25  | 0.75 | 7599      | 2.8 | 16.6 | 491.6  | 26.76    | 2.621       | 5.77  | 0.25       | 0.024        |
| 2      | 1543-1643 | 50  | 1.00 | 7854      | 3.5 | 15.5 | 536.4  | 30.17    | 2.277       | 6.71  | 0.30       | 0.022        |
| 3      | 1654-1748 | 75  | 1.60 | 7645      | 5.4 | 14.3 | 1198.0 | 65.60    | 4.162       | 10.62 | 0.46       | 0.029        |
| 4      | 1750-1650 | 100 | 2.00 | 8600      | 3.0 | 14.0 | 1359.0 | 83.71    | 4.516       | 10.29 | 0.50       | 0.028        |
|        |           |     |      |           |     |      |        |          |             |       |            |              |

 $lbs/Hr = ppm (2.595 \times 10^{-9}) MW (SCFMD) 60$ 

MW NO<sub>x</sub> = 46, MW Carbon = 12.011

Fuel Factors

oil F = 9190 SCF/MMBTU

lbs/MMBTU = ppm (2.595 x  $10^{-9}$ ) MW (F)  $\frac{20.9}{20.9 - \% \text{ O2}}$ 

Table 3 Emission Summary
Gas Turbine Unit GT-1
City of Lake Worth - Utilities Department
Lake Worth, Florida
July 22, 1993

|        |           | 7,0  | ad   | Flow Rate | CO2 | O2%  | N      | Ox Emiss |           | <u>v</u> | OC Emissi |           |
|--------|-----------|------|------|-----------|-----|------|--------|----------|-----------|----------|-----------|-----------|
| Number |           | *    | MW   | SCFMD     | *   |      | ppm    | lbs/Hr   | Ibs/MMBTU | ppm      | lbs/Hr    | UTBMM\adl |
|        |           |      |      |           |     |      |        |          |           |          |           |           |
| 1      | 0818-0902 | 25   | 7.0  | 317895    | 1.4 | 18.5 | 42.59  | 96.97    | 0.386     | 0.00     | 0.00      | 0.00      |
| 2      | 0931-1016 | 50   | 14.0 | 354233    | 2.2 | 17.4 | 80.28  | 203.68   | 0.498     | 0.00     | 0.00      | 0.00      |
| 3      | 1030-1122 | 75   | 21.0 | 347857    | 3.1 | 16.4 | 130.00 | 323.88   | 0.625     | 0.00     | 0.00      | 0.00      |
| 4      | 1136-1221 | ,100 | 28.0 | 386571    | 3.3 | 16.0 | 178.29 | 493.63   | 0.791     | 0.00     | 0.00      | 0.00      |
| 3      | 1030-1122 | 75   | 21.0 | 347857    | 3.1 | 16.4 | 130.00 | 323.88   | 0.625     |          | 0.00      | 0.00 0.00 |

 $lbs/Hr = ppm (2.595 \times 10^{-9}) MW (SCFMD) 60$ 

MW  $NO_X = 46$ , MW Carbon = 12.011

Fuel Factor

S

gas F = 8710 SCF/MMBTU

lbs/MMBTU = ppm (2.595 x  $10^{-9}$ ) MW (F)  $\frac{20.9}{20.9 - \% 02}$ 

ATTACHMENT M

HAZARDOUS AIR POLLUTANT EMISSION CALCULATIONS

# CITY OF LAKE WORTH HAZARDOUS AIR POLLUTANTS (HAPs) EMISSIONS CALCULATIONS

The HAPs emissions were calculated for those that result from volatile organic compounds (VOHAPS) and those that are metals or trace element components of fuel oil (MET-HAPS). HAPS from the tanks were calculated based on the HAPS within the VOCs.

The VOHAPS were calculated using EPA's SPECIATE. This program identified the composite profile of the pollutants and provided emission factors. Only the components that are regulated as HAPs were used in the HAPs emission calculation. SPECIATE was also used to determine the components VOCs from fuel oil storage in tanks that contain HAPS. The output of SPECIATE is attached.

The HAPs that are metals or trace elements from fuel oil were identified within EPA AP-42. The tables used from AP-42 are attached as well. The emission factors used in the HAPs calculations and associated source are listed in Table M-1.

Emissions from storage vessels were determined using EPA's TANKS program. This program yield total VOC emission equalling 0.09 tons/year. Of the VOCs emitted by the storage vessels, SPECIATE identified three pollutants that are regulated as HAPS; Hexane, Benzene, and Toluene. These pollutants makeup 4.7, 2.4 and 1.4 percent of VOCs from the tanks. Applying these percentages to the tank VOC potential emissions yields approximately 0.01 tons/year of HAPS coming from the tanks.

For those pollutants with potential emissions in excess of the reporting threshold, the pollutant-specific calculation is listed in the permit application. A sample calculation used to determine HAPs emissions is listed below.

Oil-fired Steam Unit Formaldehyde Emission Calculation:

Formaldehyde 
$$(\frac{tons}{year}) = 0.1176 \frac{lb}{1000 \text{ gal oil}} \times 6623.706 \frac{\text{gal oil}}{\text{year}}$$

$$\times \frac{tons}{2000 \text{lbs}}$$

The HAPs emission summary for the power units is in Table M-2. From this summary, the aggregrate HAPs potential emissions from the power units is 22.07 tons/year, while the maximum single HAPs

emission is 5.07 tons/year. Thus the facility-wide HAPs emissions, including tank HAPS is 22.08 tons/year.

# TABLE M-1 HAZARDOUS AIR POLLUTANTS EMISSION FACTORS

## Steam Unit - Oil Fired

| Pollutant    | Emission Factor                       | Source             |
|--------------|---------------------------------------|--------------------|
| Formaldehyde | 0.1176 lb/1000 gal                    | SPECIATE           |
| Hexane       | 0.140 lb/1000 gal                     | SPECIATE           |
| Antimony     | $2.4 \times 10^{-5} \text{ lb/MMBTU}$ | AP-42 Table 1.3-11 |
| Arsenic      | $1.9 \times 10^{-5} \text{ lb/MMBTU}$ | AP-42 Table 1.3-11 |
| Beryllium    | $4.2 \times 10^{-6} \text{ lb/MMBTU}$ | AP-42 Table 1.3-11 |
| Cadmium      | 1.6 x 10.5 lb/MMBTU                   | AP-42 Table 1.3-11 |
| Chromium     | $2.1 \times 10^{-5} \text{ lb/MMBTU}$ | AP-42 Table 1.3-11 |
| Cobalt       | $7.7 \times 10^{-5} \text{ lb/MMBTU}$ | AP-42 Table 1.3-11 |
| Manganese    | $2.3 \times 10^{-5} \text{ lb/MMBTU}$ | AP-42 Table 1.3-11 |
| Nickel       | $8.37 \times 10^4 \text{ lb/MMBTU}$   | AP-42 Table 1.3-11 |
| Selenium     | $3.8 \times 10^{-5} \text{ lb/MMBTU}$ | AP-42 Table 1.3-11 |

## Steam Unit - Gas Fired

| Pollutant    | Emission Factor | Source   |
|--------------|-----------------|----------|
| Formaldehyde | 0.112 lb/MMCF   | SPECIATE |
| Benzene      | 0.056 lb/MMCF   | SPECIATE |
| Toluene      | 0.028 lb/MMCF   | SPECIATE |

## Turbine - Oil Fired

| Pollutant Formaldehyde Benzene Antimony Arsenic Beryllium Cadmium Chromium Cobalt Manganese Mercury Nickel Selenium | Emission Factor  1.01 x 10 <sup>-3</sup> lb/1000 gal  9.13 x 10 <sup>-5</sup> lb/1000 gal  2.2 x 10 <sup>-5</sup> lb/MMBTU  4.9 x 10 <sup>-6</sup> lb/MMBTU  3.3 x 10 <sup>-7</sup> lb/MMBTU  4.2 x 10 <sup>-6</sup> lb/MMBTU  4.7 x 10 <sup>-5</sup> lb/MMBTU  9.1 x 10 <sup>-6</sup> lb/MMBTU  9.1 x 10 <sup>-6</sup> lb/MMBTU  9.1 x 10 <sup>-7</sup> lb/MMBTU  1.2 x 10 <sup>-3</sup> lb/MMBTU  5.3 x 10 <sup>-6</sup> lb/MMBTU | FIRE<br>FIRE<br>AP-42 Table 3.1-7<br>AP-42 Table 3.1-7 |
|---|---|--|
|   | 5.3 x 10 <sup>-6</sup> lb/MMBTU<br>3.0 x 10 <sup>-4</sup> lb/MMBTU  | AP-42 Table 3.1-7<br>AP-42 Table 3.1-7<br>AP-42 Table 3.1-7  |
|   |   |  |

## Turbine - Gas Fired

| Pollutant    | Emission Factor | Source   |
|--------------|-----------------|----------|
| Formaldehyde | 3.78 lb/MMCF    | SPECIATE |

# <u>Diesels</u>

| Pollutant    | Emission Factor                        | Source            |
|--------------|--|-------------------|
| Formaldehyde |  | AP-42 Table 3.4-3 |
| Benzene      |  | AP-42 Table 3.4-3 |
| Toluene      |  | AP-42 Table 3.4-3 |
| Xylene       | $1.93 \times 10^4 \text{ lb/MMBTU}$    | AP-42 Table 3.4-3 |
| Acetaldehyde | 2.52 x 10 <sup>-5</sup> lb/MMBTU       | AP-42 Table 3.4-3 |
| Acrolein     | $7.88 \times 10^{-6} \text{ lb/MMBTU}$ | AP-42 Table 3.4-3 |
| POM          | $2.12 \times 10^{-4} \text{ lb/MMBTU}$ | AP-42 Table 3.4-3 |

TABLE M-2 CITY OF LAKE WORTH UTILITIES TOM G. SMITH POWER PLANT "POTENTIAL-TO-EMIT" CALCULATIONS ALL OIL CASE

| UNIT                   | S-1      | S-3       | S-4       | GT-1      | GT-2/S-5  | MU-1     | MU-2     | MU-3     | MU-4     | MU-5     | MU-1-5   |            |
|------------------------|----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|------------|
| FIRING RATE (MMBTU/HR) | 111      | 325.1     | 419.1     | 433       | 317.6     | 21       | 21       | 21       | 21       | 21       | 21       |            |
| CAPACITY FACTOR (%)    | 100      | 100       | 100       | 100       | 100       | 100      | 100      | 100      | 100      | 100      | 100      |            |
| HOURS OF OPERATION     | 8760     | 8760      | 8760      | 8760      | 8760      | 8760     | 8760     | 8760     | 8760     | 8760     | 8760     |            |
| BTU/GAL                | 146800   | 146555    | 146555    | 139300    | 139300    | 139300   | 139300   | 139300   | 139300   | 139300   | 139300   |            |
| 10e3 GAL OIL           | 6623.706 | 19432.131 | 25050.773 | 27229.576 | 19972.548 | 1320.603 | 1320.603 | 1320.603 | 1320.603 | 1320.603 | 6603.015 |            |
| MMCF GAS               | 0        | 0         | 0         | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        |            |
| BTU/CF                 | 0        | . 0       | 0         | 0         | 0         | 0        | 0        | 0        | 0        | 0        | . 0      |            |
| MMBTU/MMCF             | 0        | 0         | . 0       | 0         | 0         | 0        | 0        | 0        | 0        | . 0      | 0        |            |
| GAS MMBTU              | 0        | 0         | 0         | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0        |            |
| % SULFUR               | 2.25     | 2.25      | 2.25      | 0.35      | 0.35      | 0.35     | 0.35     | 0.35     | 0.35     | 0.35     | 0.35     |            |
| MMBTU/10e3GAL          | 146.8    | 146.555   | 146.555   | 139.3     | 139.3     | 139.3    | 139.3    | 139.3    | 139.3    | 139.3    | 139.3    |            |
| OIL MMBTU              | 972360   | 2847876   | 3671316   | 3793080   | 2782176   | 183960   | 183960   | 183960   | 183960   | 183960   | 919800   |            |
| TOTAL MMBTU            | 972360   | 2847876   | 3671316   | 3793080   | 2782176   | 183960   | 183960   | 183960   | 183960   | 183980   | 919800   |            |
| VOHAPS                 |          |           |           |           |           |          |          |          |          |          |          | HAP TOTALS |
| Formaldehyde(tons/yr)  | 0.39     | 1.14      | 1.47      | 1.92      | 1.40      |          |          |          |          |          | 0.04     | 6.36       |
| Benzene(tons/yr)       | 0.00     | 0.00      | 0.00      | 0.17      | 0.13      |          |          |          |          |          | 0.36     | 0.66       |
| Toluene(tons/yr)       | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      |          |          |          |          |          | 0.13     | 0.13       |
| Hexane(tons/yr)        | 0.05     | 0.14      | 0.18      | 0.00      | 0.00      |          |          |          |          |          | 0.00     | 0.36       |
| Antimony(tons/yr)      | 0.01     | 0.03      | 0.04      | 0.04      | 0.03      |          |          |          |          |          | 0.00     | 0.16       |
| Arsenic (tons/yr)      | 0.01     | 0.03      | 0.03      | 0.01      | 0.01      |          |          |          |          |          | 0.00     | 0.09       |
| Beryllium (tons/yr)    | 0.00     | 0.01      | 0.01      | 0.00      | 0.00      |          |          |          |          |          | 0.00     | 0.02       |
| Cadmium (tons/yr)      | 0.01     | 0.02      | 0.03      | 0.01      | 0.01      |          |          |          |          |          | 0.00     | 0.07       |
| Chromium (tons/yr)     | 0.01     | 0.03      | 0.04      | 0.09      | 0.07      |          |          |          |          |          | 0.00     | 0.23       |
| Cobalt (tons/yr)       | 0.04     | 0.11      | 0.14      | 0.02      | 0.01      |          |          |          |          |          | 0.00     | 0.32       |
| Manganese (tons/yr)    | 0.01     | 0.03      | 0.04      | 0.64      | 0.47      |          |          |          |          |          | 0.00     | 1.20       |
| Mercury (tons/yr)      | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      |          |          |          |          |          | 0.00     | 0.00       |
| Nickel (tons/yr)       | 0.41     | 1.19      | 1.54      | 2.28      | 1.67      |          |          |          |          |          | 0.00     | 7.08       |
| Selenium (tons/yr)     | 0.02     | 0.05      | 0.07      | 0.01      | 0.01      |          |          |          |          |          | 0.00     | 0.16       |
| Phosphorus (tons/yr)   | 0.00     | 0.00      | 0.00      | 0.57      | 0.42      |          |          |          |          |          | 0.00     | 0.99       |
| Xylene (tons/yr)       | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      |          |          |          |          |          | 0.09     | 0.09       |
| Acetaldehyde (tons/yr) | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      |          |          |          |          |          | 0.01     | 0.01       |
| Acrolein (tons/yr)     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      |          |          |          |          |          | 0.00     | 0.00       |
| POM (tons/yr)          | 0.00     | 0.00      | 0.00      | 0,00      | 0.00      |          |          |          |          |          | 0.10     | 0.10       |
|                        | 0.95     | 2.79      | 3.59      | 5.76      | 4.22      |          |          |          |          |          | 0.72     | 18.03      |
|                        |          |           |           |           |           |          |          |          |          |          |          |            |

TABLE M-2 CITY OF LAKE WORTH UTILITIES TOM G. SMITH POWER PLANT "POTENTIAL-TO-EMIT" CALCULATIONS ALL GAS CASE

| UNIT                   | S-1         | 5-3       | S-4       | GT-1 | GT-2/S-5  | MU-1 | MU-2 | MU-3 | MU-4 | MU-5 | MU-1-5 |        |
|------------------------|-------------|-----------|-----------|------|-----------|------|------|------|------|------|--------|--------|
| FIRING RATE (MMBTU/HR) | 112.5       | 325.1     | 419.1     | 433  | 317.6     | 21   | 21   | 21   | 21   | 21   | 21     |        |
| CAPACITY FACTOR (%)    | 100         | 100       | 100       | 100  | 100       | 100  | 100  | 100  | 100  | 100  | 100    |        |
| HOURS OF OPERATION     | 8760        | 8760      | 8760      | 8760 | 8760      | 8760 | 8760 | 8760 | 8760 | 8760 | 8760   |        |
| BTU/GAL                | 0           | 0         | 0         | 0    | 0         | 0    | 0    | 0    | 0    | 0    | 0      |        |
| 10e3 GAL OIL           | 0           | 0         | 0         | 0    | 0         | 0    | 0    | 0    | 0    | 0    | 0      |        |
| MMCF GAS               | 959.5910419 | 2773.0049 | 3574.7965 | 0    | 2709.0321 | 0    | 0    | 0    | 0    | 0    | o      |        |
| BTU/CF                 | 1027        | 1027      | 1027      | 0    | 1027      | 0    | 0    | 0    | 0    | 0    | 0      |        |
| MMBTU/MMCF             | 1027        | 1027      | 1027      | 0    | 1027      | 0    | 0    | 0    | 0    | 0    | 0      |        |
| GAS MMBTU              | 985500      | 2847876   | 3671316   | 0    | 2782176   | 0    | 0    | 0    | 0    | 0    | 0      |        |
| % SULFUR               | 0           | 0         | 0         | 0    | 0         | 0    | 0    | 0    | 0    | 0    | 0      |        |
| MMBTU/10e3GAL          | 0           | 0         | 0         | 0    | 0         | 0    | 0    | 0    | 0    | 0    | 0      |        |
| OIL MMBTU              | 0           | 0         | 0         | 0    | 0         | 0    | 0    | 0    | 0    | 0    | 0      |        |
| TOTAL MMBTU            | 985500      | 2847876   | 3671316   | 0    | 2782176   | 0    | 0    | 0    | 0    | 0    | 0      |        |
| VOHAPS                 |             |           |           |      |           |      |      |      |      |      |        | HAP TO |
| Formaldehyde(tons/yr)  | 0.05        | 0.16      | 0.20      |      | 5.12      |      |      |      |      |      |        |        |
| Benzene(tons/yr)       | 0.03        | 0.08      | 0.10      |      | 0.00      |      |      |      |      |      |        |        |
| Toluene(tons/yr)       | 0.01        | 0.04      | 0.05      |      | 0.00      |      |      |      |      |      |        |        |
| TOTAL BY UNIT          | 0.09        | 0.27      | 0.35      |      | 5.12      |      |      |      |      |      |        |        |

#### VOC Speciated Emission Factor Profile

Profile Name : External Combustion Boiler - Residual Oil

Profile Number : 0001 Data Quality : B

Control Device : UNCONTROLLED

Reference(s) : 58,59

Data Source : Information based on stack sample for residual oil

analyzed by GC/MS.

SCC Code : 10200401

SCC Name : EXTCOMB BOILER
SCC Name : INDUSTRIAL
SCC Name : RESIDUAL OIL

SCC Name : NO 6 OIL

Emission Factor Units: 1000 Gallons Burned

| ********* |            |              | *************************************** |
|-----------|------------|--------------|---|
| Number    | CAS Number | Name         | Emission Factor                         |
| •••       |            |              |   |
| 53        | 74-82-8    | METHANE      | 0.0308000                               |
| 62        | 106-97-8   | N-BUTANE     | 0.0392000                               |
| 80        | 110-54-3   | HEXANE       | 0.0140000                               |
| 231       | 50-00-0    | FORMALDEHYDE | 0.1176000                               |
| 242       | 67-64-1    | ACETONE      | 0.0784000                               |
|           |            |              |   |

#### VOC Speciated Emission Factor Profile

Profile Name : External Combustion Boiler - Natural Gas

Profile Number: 0003 Data Quality : B

Control Device : Uncontrolled

Reference(s) : 58, 59

Data Source : Information based on stack sample for natural gas

analyzed by GC/MS.

SCC Code

: 10200601

SCC Name

: EXTCOMB BOILER

---- SCC Name\*\*\*

: INDUSTRIAL

SCC Name

: NATURAL GAS

SCC Name

: >100HHBTU/HR

Emission Factor Units: Million Cubic Feet Burned

| Number | CAS Number | Name               | Emission Factor |
|--------|------------|--------------------|-----------------|
| 1      | •          | ISOMERS OF HEXANE  | 0.0140000       |
| 18     |            | ISOMERS OF PENTANE | 0.1260000       |
| 53     | 74-82-8    | HETHANE            | 0.7840000       |
| 56     | 74-98-6    | PROPANE            | 0.0560000       |
| 62     | 106-97-8   | N-BUTANE           | 0.1260000       |
| 69     | 109-66-0   | N-PENTANE          | 0.0840000       |
| 91     | 110-82-7   | CYCLOHEXANE        | 0.0140000       |
| 231    | 50-00-0    | FORMALDEHYDE       | 0.1120000       |
| 318    | 71-43-2    | BENZENE            | 0.0560000       |
| 319    | 108-88-3   | TOLUENE            | 0.0280000       |

#### VOC Speciated Emission Factor Profile

Profile Name : Natural Gas Turbine

Profile Number: 0007 Data Quality : C

Control Device : Uncontrolled

Reference(s) : 58, 59

Data Source

: Composite profile developed using data based on GC/MS

analysis of fuel combustion exhaust.

: 20100201 SCC Code

SCC Name

: INTERNLCONBUSTION

SCC Name.

: ELECTRIC GENERATN

SCC Name

: NATURAL GAS

SCC Name

: TURBINE

Emission Factor Units: Million Cubic Feet Burned

|        |            |              | •••••                                   |
|--------|------------|--------------|---|
| Humber | CAS Number | Kame         | Emission Factor                         |
| 53     | 74-82-8    | HETHANE .    | 8.8200000                               |
| 231    | 50-00-0    | FORMALDEHYDE | 3.7800000                               |
|        |            |              | *************************************** |

#### VOC Profile Speciation Report

Profile Name : Fixed Roof Tank - Crude Oil Refinery

Profile Number : 0297 Data Quality : C

Control Device : Uncontrolled ·

Reference(s) : 59, 72

Data Source : Engineering evaluation of test data and literature

data.

SCC Assignments: 40400301, 40400302

| Number | CAS Number - | Name               | Spec_NW   | Spec_WT | Peak  |
|--------|--------------|--------------------|-----------|---------|-------|
| 1      |              | ISOMERS OF HEXANE  | 86.17     | 5.10    | ••••• |
| 2      |              | ISOMERS OF HEPTANE | 100.20    | 5.00    |       |
| 3      |              | ISOMERS OF OCTANE  | 114.23    | 0.40    |       |
| 18     |              | ISOMERS OF PENTANE | 72.15     | 11.20   |       |
| 53     | 74-82-8      | METHANE            | 16.04     | 8.80    |       |
| 54     | 74-84-0      | ETHANE             | 30.07     | 2.70    |       |
| 56     | 74-98-6      | PROPANE            | 44.09     | 16.10   |       |
| 62     | 106-97-8     | N-BUTANE           | 58.12     | 20.80   |       |
| 64     | 75-28-5      | I SO-BUTANE        | 58.12     | 9.30    |       |
| 69     | 109-66-0     | N-PENTANE          | 72.15     | 10.10   |       |
| 80     | 110-54-3     | HEXANE             | 86.17     | 4.70    |       |
| 81     | 142-82-5     | HEPTANE            | 100.20    | 2.00    |       |
| 318    | 71-43-2      | BENZENE            | 78.11     | 2.40    |       |
| 319    | 108-88-3     | TOLUENE            | 92.13     | 1.40    |       |
| TOTAL  |              | •                  | ••••••••• | 100.00  |       |

+--

### TABLE 1.3-11. EMISSION FACTORS FOR TRACE ELEMENTS FROM FUEL OIL COMBUSTION SOURCES

## EMISSION FACTOR RATING: E

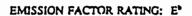
| Firing Configuration                                       |                  | Emission Factor, pg/J (lb/10 <sup>12</sup> Bru) |              |                    |                    |                   |                   |                  |                    |                        |            |
|--|------------------|---|--------------|--------------------|--------------------|-------------------|-------------------|------------------|--------------------|------------------------|------------|
| (SCC),   | Sb               | . As  | Вс           | . C1 .             | Cr                 | Co                | Pb                | Mn               | Ħg                 | Ni                     | Se         |
| No. 6 oil fired<br>(101004-01/04<br>10200401<br>10300401)  | 10-20<br>(24-46) | 8.2-49<br>(19-114)                              | 1.8 (4.2)    | 6.8-91<br>(16-211) | 9.0-55<br>(21-128) | 33-50<br>(77-121) | 12-80<br>(28-194) | 10-30<br>(23-74) | 0.6-14<br>(1.4-32) | 360-964<br>(\$37-2330) | 16<br>(38) |
| Distillate oil fired<br>(10100501<br>10200501<br>10300501) | NA               | 1.8<br>(4.2)                                    | 1.1<br>(2.5) | 4.5<br>(11)        | 21-29<br>(48-67)   | NA                | 3.8<br>(8.9)      | 6.0<br>(14)      | (3.0)              | 7.3<br>(18)            | NA         |

\*SCC = Source Classification Code.

NA = Not available.

References 16-19, 36-40. The emission factors in this table represent the ranges of factors reported in the literature. If only one data point was found, it is still reported in this table.

TABLE 3.1-7. TRACE ELEMENT EMISSION FACTORS FOR DISTILLATE OIL-FIRED GAS TURBINES\*
(Source Classification Code: 20100101)



| Trace Element | pg/J          | lb/MMBtu |
|---------------|---------------|----------|
| Aluminum      | 64            | 1.5 E-04 |
| Antimony      | 9.4           | 2.2 E-05 |
| Arsenic       | 2.1           | 4.9 E-06 |
| Barium        | 8.4           | 2.0 E-05 |
| Beryllium     | .14           | 3.3 E-07 |
| Boron .       | 28            | 6.5 E-05 |
| Bromine       | 1.8           | 4.2 E-06 |
| Cadmium       | 1.8           | 4.2 È-06 |
| Calcium       | 330           | 7.7 E-04 |
| Chromium      | 20            | 4.7 E-05 |
| Cobalt        | . 3.9         | 9.1 E-06 |
| Copper        | 578           | 1.3 E-03 |
| Iron          | 256           | 6.0 E-04 |
| Lead          | 25            | 5.8 E-05 |
| Magnesium     | . 100         | 2.3 E-04 |
| Manganese     | 145           | 3.4 E-04 |
| Mercury       |               | 9.1 E-07 |
| Molybdenum    | 3.6           | 8.4 E-06 |
| Nickel        | 526           | 1.2 E-03 |
| Phosphorus    | 127           | 3.0 E-04 |
| Potassium '   | 182           | 4.3 E-04 |
| Selenium,     | 2.3           | 5.3 E-06 |
| Silicon       | 575           | 1.3 E-03 |
| Sodium        | <b>5</b> 90 · | 1.4 E-03 |
| Tin .         | · 35          | 8.1 E-05 |
| Vanadium      | 1.9           | 4.4 E-06 |
| Zinc ·        | 294           | 6.8 E-04 |

<sup>&#</sup>x27;Reference 1.

<sup>&</sup>quot;Emission factor rating of "E" indicates that the data are from a limited data set and may not be representative of a specific source or population of sources.

# TABLE 3.4-3. (ENGLISH AND METRIC UNITS) SPECIATED ORGANIC COMPOUND EMISSION FACTORS FOR LARGE STATIONARY DIESEL ENGINES\* (Source Classification Code: 20200401)

(Emission Factor Rating: E)

| [lb/MMBtu]<br>(fuel input) | [ng/J] (fuel input)  |
|----------------------------|--|
| 7.76 E-04                  | 3.34 E-01  |
| 2.81 E-04                  | 1.21 E-01  |
| 1.93 E-04                  | 8.30 E-02  |
| 2.79 E-03                  | 1.20 E-00  |
| 7.89 E-05                  | 3.39 E-02  |
| 2.52 E-05                  | 1.08 E-02  |
| 7.88 E-06                  | 3.39 E-03  |
|                            | (fuel input) 7.76 E-04 2.81 E-04 1.93 E-04 2.79 E-03 7.89 E-05 2.52 E-05 |

Data based on the uncontrolled levels of one diesel engine from reference 5. There was enough information to committe the input specific emission factors of lb/MMBtu, but not enough to calculate the output specific emission factor of g/np-hr. There was enough Information to compute the input specific emission factors of ng/J, but not enough to calculate the output specific emission factor of g/kW-hr.

E" rating for emission factors are due to limited data sets, inherent variability in the population and/or a lack of documentation of test results. "E" rated emission factors may not be suitable for specific facilities or populations and should be used with care.

TABLE 3.4-4. (ENGLISH AND METRIC UNITS) POLYCYCLIC AROMATIC HYDROCARBON (PAH) EMISSION FACTORS FOR LARGE STATIONARY DIESEL ENGINES\*

(Source Classification Code: 20200401)

(Emission Factor Rating: E)b

| Pollutant                              | [lb/MMBtu] (fuel input) | [ng/J] (fuel input) |
|--|-------------------------|---------------------|
| Polycyclic Aromatic Hydrocarbons (PAH) |                         |                     |
| Naphthalene                            | 1.30 E-04               | 5.59 E-02           |
| Acenaphthylene                         | 9.23 E-06               | 3.97 E-03           |
| Acenaphthene                           | 4.68 E 06               | 2.01 E-03           |
| Fluorene                               | 1.28 E-05               | 5.50 E-03           |
| Phenanthrene                           | 4.08 E-05               | 1.75 E-02           |
| Anthracene                             | 1.23 E-06               | 5.29 E-04           |
| Fluoranthene                           | 4.03 E-06               | 1.73 E-03           |
| Pyrene ·                               | 3.71 E-06               | 1.60 E-03           |
| Benz(a)anthracene                      | 6.22 E-07               | 2.67 E-04           |
| Chrysene                               | 1.53 E-06               | 6.58 E-04           |
| Benzo(b)fluoranthene                   | 1.11 E-06               | 4.77 E-04           |
| Benzo(k)fluoranthene                   | < 2.18 E-07             | < 9.37 E-05         |
| Benzo(a)pyrene                         | < 2.57 E-07             | < 1.10 E-04         |
| Indeno(1,2,3-cd)pyrene                 | < 4.14 E-07             | < 1.78 E-04         |
| Dibenz(a,h)anthracene                  | < 3.46 E-07             | < 1.49 E-04         |
| Benzo(g,h,l)perylene                   | < 5.56 E-07             | < 2.39 E-04         |
| Total PAH .                            | 2.12 E-04               | 9.09 E-02           |

<sup>\*</sup>Data are based on the uncontrolled levels of one diesel engine from reference 5. There was enough information to compute the input specific emission factors of fb/MMBtu and ng/I but not enough to calculate the output specific emission factor of g/hp-hr and g/kW-hr.

<sup>\*&</sup>quot;E" rating for emission factors is due to limited data sets, inherent variability in the population and/or a lack of documentation of test results. "E" rated emission factors may not be suitable for specific facilities or populations and should be used with care.

ATTACHMENT N

ACID RAIN APPLICATION PHASE II



## CITY OF

# LAKE WORTH

1900 2ND AVENUE NORTH LAKE WORTH, FLORIDA 33461-4298

> (407) 586-1668 FAX (407) 586-1702

UTILITIES
DEPARTMENT
December 13, 1995

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

Subject:

Acid Rain Permit Application

Tom G. Smith Electric Power Plant

Lake Worth, Florida

Dear Mr. Brown:

Enclosed please find the original and three copies of the Phase II Acid Rain Permit Application for the Tom G. Smith Electric Power Plant.

Please note that Unit S-4 has not been available for service since June 1989. The unit experienced extensive damage in a forced outage and is in extended shutdown for repair. Unit S-4 is an affected Phase II unit currently permitted, thus included on this application with Unit S-3. Upon Unit

S-4's return to service, Continuous Emission Monitors will be installed.

If you have any questions or require any additional information to process this application, please notify us.

Sincerely,

CITY OF LAKE WORTH UTILITIES

Harvey F. Wildschuetz, Utilities Director

Designated Representative

Enclosure

c: AJ Satyal, Palm Beach County Health Department, w/enclosure Al Magley, Jr., Raytheon Engineers and Constructors, w/enclosure Anatole Bezugly, Assistant Utilities Director Lloyd Gibb, Power Resources Superintendent (ADR) Margaret Johnstone, Environmental Compliance Officer Bill Michael, Mechanical Systems Engineer

# Phase II Permit Application

Compliance

Page 1

|                           | ctions and refer to 40 CFR 72.30 |       |          |
|---------------------------|----------------------------------|-------|----------|
| This submission is: X New | Revised                          |       | ·        |
| Tom G. Smith              | · _                              | FL    | 673      |
| Plant Name                | •                                | State | ORIS Cod |

STEP 1 Identify the source by plant name, State, and ORIS code from NADB

STEP 2
Enter the boiler ID#
from NADB for each
affected unit, and
indicate whether a
repowering plan is
being submitted for
the unit by entering
"yes" or "no" at
column c. For new
units, enter the requested information
in columns d and e

|            |   | rian               |                                    |   |
|------------|---|--------------------|------------------------------------|---|
|            | ь   | c                  | ď                                  |   |
| Boiler ID# | Unit Will<br>Hold Allow-<br>ances in<br>Accordance<br>with 40 CFR<br>72.9(c)(1) | Repowering<br>Plan | New Units  Commence Operation Date | New Units  Monitor Certification Deadline |
| S~3        | Yes   | NO                 |                                    |   |
| S-4        | Yes   | NO                 |                                    |   |
|            | Yes   |                    |                                    |   |
| _          | Yes   |                    |                                    |   |
|            | Yes   |                    |                                    |   |

STEP 3 Check the box if the response in column c of Step 2 is "Yes" for any unit For each unit that will be repowered, the Repowering Extension Plan form is included and the Repowering Technology Petition form has been submitted or will be submitted by June 1, 1997.

DEP Form No. 62-210.900(1)(a) - Form

Effective: 7-1-95

#### Recordkeeping and Reporting Requirements (cont.)

(iv) Copies of all documents used to complete an Acid Rain part application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an Acid Rain source and each Acid Rain unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

#### Liability.

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain pert application, an Acid Rain part, or a written examption under 40 CFR 72\_7 or 72\_8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
- (3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (4) Each Acid Rain source and each Acid Rain unit shall meet the requirements of the Acid Rain Program. (5) Any provision of the Acid Rain Program that applies to an Acid Rain source (including a provision applicable to the designated representative of an Acid Rain source) shall also apply to the owners and operators of such source and of the Acid Rain units at the source.
- (6) Any provision of the Acid Rain Program that applies to an Acid Rain unit (including a provision applicable to the designated representative of an Acid Rain unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one Acid Rain unit shall not be liable for any violation by any other Acid Rain unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
- of which they are not owners or operators or the designated representative.
  (7) Each violation of a provision of 40 CFR parts 72, 73, 75, 77, and 78 by an Acid Rain source or Acid Rain unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities. No provision of the Acid Rain Program, an Acid Rain part application, an Acid Rain part, or a written exemption under 40 CFR 72.7 or 72.3 shall be construed as:

- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an Acid Rain source or Acid Rain unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to epplicable National Ambient Air Quality Standards or State Implementation Plans;
- (2) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
- (3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
- (4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
- (5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

#### Certification

I am authorized to make this submission on benalf of the owners and operators of the Acid Rain source or Acid Rain units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements end information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

| Name Harvey | F. Wildschuetz, | Matili <u>;</u> ies | Director, | Designated Rep. |
|-------------|-----------------|---------------------|-----------|-----------------|
| Signaturaco | Hillich         | wet                 |           | Data /2/13/95   |
| /           |                 |                     |           |                 |

DEP Form No. 62-210.900(1)(a) - Form

Effective: 7-1-95

Plant Name (from Step 1)

STEP 4
Read the standard requirements and certification, enter the name of the designated representative, and sign and date

#### Standard Requirements

#### Permit Requirements.

- (1) The designated representative of each Acid Rain source and each Acid Rain unit at the source shall: (i) Submit a complete Acid Rain part application (including e compliance plan) under 40 CFR part 72, Rules 62-214.320 and 330, F.A.C. in accordance with the deadlines specified in Rule 62-214.320, F.A.C.; and
  - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain part application and issue or dany an Acid Rain permit;
- (2) The owners and operators of each Acid Rain source and each Acid Rain unit at the source shall: (i) Operate the unit in compliance with a complete Acid Rain part application or a superseding Acid Rain part issued by the permitting authority; and (ii) Have an Acid Rain Part.

#### Monitoring Requirements.

- (1) The owners and operators and, to the extent applicable, designated representative of each Acid Rain source and each Acid Rain unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75, and Rule 62-214.420, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogan oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

#### Sulfur Dioxide Requirements.

- (1) The owners and operators of each source and each Acid Rain unit at the source shall:
  - (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
  - (ii) Comply with the applicable Acid Rein emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An Acid Rain unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
  - (i) Starting January 1, 2000, an Acid Rain unit under 40 CFR 72.6(a)(2); or
  - (ii) Starting on the leter of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an Acid Rain unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1)(i) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
  (5) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or the written exemption under 40 CFR 72.7 and 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements. The owners and operators of the source and each Acid Rain unit at the source snall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

#### Excess Emissions Requirements.

- (1) The designated representative of an Acid Rain unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
- (2) The owners and operators of an Acid Rain unit that has excess emissions in any calendar year shall: (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
  - (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

#### Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the source and each Acid Rain unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
  - (i) The certificate of representation for the designated representative for the source and each Acid Rain unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with Rula 62-214.350, F.A.C.; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
  - (ii) All emissions monitoring information, in accordance with 40 CFR part 75;
  - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,

DEP Form No. 62-210.900(1)(a) - Form

Effective: 7-1-95

STEP 5 (optional) Enter the source AIRS and FINDS identification numbers, if known

| AIRS  |   |  |  |
|-------|---|--|--|
|       |   |  |  |
| FINDS | ` |  |  |