DAY 60 - 8/24/07

Department of Environmental Protection Division of Air Resource Management

SUBMITTED APPLICATION REPORT APPLICATION FOR AIR PERMIT - LONG FORM

--- Form Effective 02/02/06 ---

Application Number: 1493-1

Application Name: 2007 DESOTO TV RENEWAL/AC

Date Submitted: 25 June 2007

I. APPLICATION INFORMATION

Air Construction Permit - Use this form to apply for any air construction permit at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air permit. Also use this form to apply for an air construction permit:

- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment area (NAA) new source review, or maximum achievable control technology (MACT) review; or
- Where the applicant proposes to assume a restriction on the potential emissions of one or more pollutants to escape a federal program requirement such as PSD review, NAA new source review, Title V, or MACT; or
- Where the applicant proposes to establish, revise, or renew a plantwide applicability limit (PAL).

Air Operation Permit - Use this form to apply for:

Identification of Facility

- an initial federally enforceable state air operation permit (FESOP); or
- an initial/revised/renewal Title V air operation permit.

Air Construction Permit & Title V Air Operation Permit (Concurrent Processing Option) - Use this form to apply for both an air construction permit and a revised or renewal Title V air operation permit incorporating the proposed project.

To ensure accuracy, please see form instructions.

| 1. | Facility Owner/Company Name: DESOTO COUNTY GENERATING COMPANY, LLC | | | | | |
|----|--|--|----|------------------|----------------------------------|--|
| 2. | Site Name: DESOTO COUNTY ENERGY PARK | | | | | |
| 3. | Facility Identification Number: 0270016 | | | | | |
| 4. | Facility Location Street Address or Other Locator: | 2 miles east of Arcadia 3800 NORTHEAST ROAN STREET | | | | |
| | City: ARCADIA | County: DESC | | 1 1021115 | Zip Code: 34266 | |
| 5. | Relocatable Facility? ☐ Yes | | 6. | Existing Ti Ves | tle V Permitted Facility 「 No | |

Application Contact Application Contact Name: Application Contact Job Title: **KEVIN WHITE** Engineer II 2. Application Contact Mailing Address... Organization/Firm: GUL POWER COMPANY Street Address: ONE ENERGY PLACE City: PENSACOLA State: FL Zip Code: 32520 3. Application Contact Telephone Numbers... Telephone: (850) 444-6537 Fax: (850) 444-6217 Application Contact Email Address: kwhite@southernco.com 4.

| - | ose of Application application for air permit is submitted to obtain: (Check one) |
|----------|---|
| Air (| Construction Permit |
| Γ | Air construction permit. |
| Γ- | Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL). |
| Γ | Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL. |
| Air (| Operation Permit |
| Γ | Initial Title V air operation permit. |
| Γ | Title V air operation permit revision. |
| Γ | Title V air operation permit renewal. |
| | Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required. |
| Γ | Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required. |
| Air (| Construction Permit and Revised/Renewal Title V Air Operation Permit |
| • | ncurrent Processing) |
| | Air construction permit and Title V permit revision, incorporating the proposed project. |
| ~ | Air construction permit and Title V permit renewal, incorporating the proposed project. |
| | Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box: |
| | I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit. |
| | ication Comment |
| reque | permit is for the renewal of the DeSoto County Generating Company's Title V permit and the ested removal of Specific Condition A.6. from the Title V permit. This requirement was porated by condition 14 of the initial construction permit (Permit No. 0270016-001-AC/PSD-FL- |
| | |

| Emissions Unit ID Number | The state of the s | Air Permit Type |
|--------------------------|--|-----------------------|
| 4 | 1.5 million gallon fuel oil storage tank | ACM1 |
| 1 | 170MW Simple Cycle Comb Turbine (Phase II Acid Rain unit) | ACM1 |
| 2 | 170MW Simple Cycle Comb Turbine (Phase II Acid Rain unit) | ACM1 |

Note: The fee calculation information associated with this application may be accessed from the Main Menu of ESPAP.

Owner/Authorized Representative Statement Complete if applying for an air construction permit or an initial FESOP.

Owner/Authorized Representative Name:

Owner/Authorized Representative Job Title:

OANDM Manager

2. Owner/Authorized Representative Mailing Address...

Organization/Firm: DESOTO COUNTY ENERGY COMPLEX/SOUTHERN POWER

Street Address: 3800 NE ROAN STREET

City: ARCADIA

State: FL

Zip Code: 34266

3. Owner/Authorized Representative Telephone Numbers...

Telephone: (863) 884-9604

JOSEPH MILLER

ext.

Fax: (863) 884-9122

4. Owner/Authorized Representative Email Address: jlmiller@southernco.com

5. Owner/Authorized Representative Statement:

By entering my PIN below, I certify that I am the owner/authorized representative of the facility addressed in this air permit application. 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 and all other requirements identified in this application to which the facility is subject. 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 the facility or any permitted emissions unit.

| ppl | lication Responsible Official Certification | | | | | | |
|-----|---|--|--|--|--|--|--|
| 1. | Application Responsible Official Name: JOSEPH MILLER | | | | | | |
| 2. | Application Responsible Official Qualification (Check one or more of the following options, a applicable): | | | | | | |
| | For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. | | | | | | |
| | For a partnership or sole proprietorship, a general partner or the proprietor, respectively. | | | | | | |
| | For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. | | | | | | |
| | The designated representative at an Acid Rain source. | | | | | | |
| 3. | Application Responsible Official Mailing Address | | | | | | |
| | Organization/Firm: DESOTO COUNTY ENERGY COMPLEX/SOUTHERN POWER | | | | | | |
| | Street Address: 3800 NE ROAN STREET | | | | | | |
| | City: ARCADIA State: FL Zip Code: 34266 | | | | | | |
| 1. | Application Responsible Official Telephone Numbers | | | | | | |
| | Telephone: (863)884-9604 ext. Fax: (863)884-9122 | | | | | | |
| 5. | Application Responsible Official Email Address: jlmiller@southernco.com | | | | | | |
| 5. | Application Responsible Official Certification: By entering my PIN below, I certify that I am a responsible official of the Title V source addressed in this air permit application. 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 and all other applicable requirements identified in this application to which the Title V source is subject. 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 the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application. | | | | | | |

| rof | ofessional Engineer Certification | | |
|-----|--|--|--|
| 1. | | Profession | al Engineer Job Title: |
| | KEVIN WHITE | Engineer II | |
| | Registration Number: 57754 | | |
| 2. | Professional Engineer Mailing Address | | |
| | Organization/Firm: GULF POWER COMPA | NY | |
| | Street Address: ONE ENERGY PLACE | | |
| | MAIL BIN 328 | | |
| | City: PENSACOLA | State: FL | Zip Code: 32520 |
| 3. | Professional Engineer Telephone Numbers | | |
| | Telephone: (850) 444-6537 ext. | Fax: (| 850) 444-6217 |
| 4. | Professional Engineer Email Address: KWH | ITE@SOUTHE | RNCO.COM |
| 5. | Professional Engineer Statement: | | |
| | I hereby certify, except as particularly noted | herein*, that: | |
| | (1) To the best of my knowledge, there is rea unit(s) and the air pollution control equipmer properly operated and maintained, will comp pollutant emissions found in the Florida State Protection; and | nt described in t ly with all appli | his application for air permit, when cable standards for control of air |
| | (2) To the best of my knowledge, any emission are true, accurate, and complete and are either calculating emissions or, for emission estimatemissions unit addressed in this application, calculations submitted with this application. | er based upon re ites of hazardou | asonable techniques available for s air pollutants not regulated for an |
| | (3) If the purpose of this application is to obt so), I further certify that each emissions unit properly operated and maintained, will comp application to which the unit is subject, excel and schedule is submitted with this application | described in this ly with the apple pt those emission | s application for air permit, when icable requirements identified in this |
| | (4) If the purpose of this application is to obtor concurrently process and obtain an air conrevision or renewal for one or more proposed so), I further certify that the engineering feat application have been designed or examined and found to be in conformity with sound enemissions of the air pollutants characterized | struction permited in the second in the seco | t and a Title V air operation permit ed emissions units (check here , if hemissions unit described in this duals under my direct supervision ples applicable to the control of |
| | (5) If the purpose of this application is to obt permit revision or renewal for one or more new there □, if so), I further certify that, with the application, each such emissions unit has been with the information given in the correspondall provisions contained in such permit. | ewly constructe exception of ar en constructed o | d or modified emissions units (check by changes detailed as part of this r modified in substantial accordance |
| | * Explain any exception to the certification s | tatement. | |



II. FACILITY INFORMATION A. GENERAL FACILITY INFORMATION

Facility Location and Type

| 1. | Facility UTM Coordin | ates | 2. Facility Latitude/Longitude | | | |
|----|--|---------------------------------|---|--------------------------------------|--|--|
| | | ast (km) 419.75 | Latitude (DD/MM/SS) 27° 13` 30" N | | | |
| | N | orth (km) 3011.5 | Longitude (DD/MM/S | S) 81° 48` 42" W | | |
| 3. | Governmental Facility Code: (0) NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT | 4. Facility Status Code: Active | 5. Facility Major Group SIC Code: (49) ELECTRIC, GAS AND SANITARY SERVICES | 6. Facility SIC(s): Primary: 4911 | | |
| 7. | Facility Comment: | | | | | |

Facility Contact

| 1. | Facility Contact Name: | Facility Contact Job Title: |
|----|------------------------|-----------------------------|
| | MICHAEL MULVANEY | Operations Technician II |

2. Facility Contact Mailing Address...

Organization/Firm: DESOTO COUNTY GENERATING COMPANY, LLC

Street Address: 3800 NE ROAN STREET

City: ARCADIA

State: FL

Zip Code: 34266

3. Facility Contact Telephone Numbers...

Telephone: (321) 637-6592 ext. Fax: (321) 637-6615

4. Facility Contact Email Address: MMULVANE@southernco.com

Facility Primary Responsible Official.

Complete if an "application responsible official" is identified in Section I. that is not the facility "primary responsible official."

| <u> </u> | mary responsible official. | | | | |
|----------|---|-------------------------|-------------------------------------|--|--|
| 1. | Facility Primary Responsible Official Name: JOSEPH MILLER | Facility Prima OANDM Ma | ary Responsible Official Job Title: | | |
| 2. | Facility Primary Responsible Official Mailing A | | K/SOUTHERN POWER | | |
| | Street Address: 3800 NE ROAN STREET City: ARCADIA | State: FL | Zip Code: 34266 | | |
| 3. | Facility Primary Responsible Official Telephon Telephone: (863) 884-9604 ext. Fax: (863) 884 | | | | |
| 4. | 4. Facility Primary Responsible Official Email Address: jlmiller@southernco.com | | | | |

and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a "major source" and a "synthetic minor source." Unknown 1. Small Business Stationary Source 2. Synthetic Non-Title V Source 3. ~ Title V Source Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs) 4. ~ 5. Synthetic Minor Source of Air Pollutants, Other than HAPs 6. Major Source of Hazardous Air Pollutants (HAPs) 7. Synthetic Minor Source of HAPs 8. One or More Emissions Units Subject to NSPS (40 CFR Part 60) 9. One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60) One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63) 10. 11. Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))

Facility Regulatory Classifications Comment:

12.

Facility Regulatory Classifications Check all that would apply following completion of all projects

List of Pollutants Emitted by Facility **Emissions** 1. Pollutants 2. Pollutant Classification Cap Emitted [Y or N]? (A) ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE SO2 N APPLICABLE MAJOR SOURCE THRESHOLDS. (A) ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE N CO APPLICABLE MAJOR SOURCE THRESHOLDS. (A) ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE N NOX APPLICABLE MAJOR SOURCE THRESHOLDS. (B) ACTUAL AND POTENTIAL EMISSIONS BELOW ALL Ν PB APPLICABLE MAJOR SOURCE THRESHOLDS (B) ACTUAL AND POTENTIAL EMISSIONS BELOW ALL N PM10 APPLICABLE MAJOR SOURCE THRESHOLDS (B) ACTUAL AND POTENTIAL EMISSIONS BELOW ALL N PM APPLICABLE MAJOR SOURCE THRESHOLDS (B) ACTUAL AND POTENTIAL EMISSIONS BELOW ALL N VOC APPLICABLE MAJOR SOURCE THRESHOLDS (C) CLASS IS UNKNOWN N HAPS N H113 (C) CLASS IS UNKNOWN (C) CLASS IS UNKNOWN H106 N H104 (C) CLASS IS UNKNOWN (C) CLASS IS UNKNOWN N H095

(C) CLASS IS UNKNOWN

SAM

B. Emissions Caps Facility-Wide or Multi-Unit Emissions Caps

| 1. | Pollutant Subject to Emissions Cap | 2. Facility Wide Cap [Y or N]? (all units) | 3. | Emissions Unit ID No.s Under Cap (if not all units) | 4. | Hourly Cap (lb/hr) | 5. | Annual Cap (ton/yr) | 6. | Basis for Emissions Cap |
|----|---|--|----|---|----|-----------------------|----|---------------------------|----|-------------------------------|
|----|---|--|----|---|----|-----------------------|----|---------------------------|----|-------------------------------|

7. Facility-Wide or Multi-Unit Emissions Cap Comment:

C. FACILITY ADDITIONAL INFORMATION Additional Requirements for All Applications, Except as Otherwise Stated Facility Plot Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) ☐ Applicable ☐ Previously Submitted, Date: ✓ Attachment Process Flow Diagram(s): (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) ✓ Attachment ☐ Applicable ☐ Previously Submitted, Date: Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) ☐ Applicable ☐ Previously Submitted, Date: ✓ Attachment Additional Requirements for Air Construction Permit Applications Area Map Showing Facility Location: (Not applicable for existing permitted facility) Attachment
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 ✓ Applicable Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL): ☐ Applicable ☐ Attachment Rule Applicability Analysis: ☐ Attachment ☐ Applicable List of Exempt Emissions Units (Rule 62-210.300(3), F.A.C.): (Not applicable if no exempt units at facility) T Applicable ☐ Attachment Fugitive Emissions Identification: ☐ Attachment ☐ Applicable Air Quality Analysis (Rule 62-212.400(7), F.A.C.): ☐ Applicable Attachment Source Impact Analysis (Rule 62-212.400(5), F.A.C.): ☐ Attachment ☐ Applicable Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.): ☐ Attachment ☐ Applicable Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.):

☐ Attachment

☐ Attachment

☐ Applicable

☐ Applicable

10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.):

| <u>Adc</u> | litional Requirements for FESOP Applications | | |
|------------|---|-----------------|---------------------------|
| 1. | List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.): (N exempt units at facility) | ot ap | oplicable if no |
| | ☐ Applicable | | Attachment |
| Ado | litional Requirements for Title V Air Operation Permit Applications | | |
| 1. | List of Insignificant Activities: (Required for initial/renewal applications, but applications) | t not | for revision |
| | | <u> \lambda</u> | Attachment |
| 2. | Identification of Applicable Requirements (Required for initial/renewal application applications if this information would be changed as a result of the r sought): | | |
| | ☐ Applicable | | Attachment |
| 3. | Compliance Report and Plan: (Required for all initial/revision/renewal application.) Note: A compliance plan must be submitted for each emissions unit that is not all applicable requirements at the time of application and/or at any time during processing. The department must be notified of any changes in compliance stapplication processing. | ot in 1g ap | compliance with plication |
| | ✓ Applicable | ~ | Attachment |
| 4. | List of Equipment/Activities Regulated under Title VI (If applicable, required applications only): | d for | initial/renewal |
| | ☐ Applicable ☐ Equipment/Activities On site but Not Required to be Individually Listed | Γ | Attachment |
| 5. | Verification of Risk Management Plan Submission to EPA (If applicable, recinitial/renewal applications only): | luire | d for |
| | ☐ Applicable | | Attachment |
| 6. | Requested Changes to Current Title V Air Operation Permit: | | |
| | | ~ | Attachment |
| <u>Oth</u> | er Information Regarding this Facility: | | |
| 4. | Other Facility Information: | | |
| | ✓ Included | [V | Attachment |
| | litional Requirements Comment | | |
| The | e attached compliance plan has been included due to the inability of the two CI | `s (E | U Nos. 001 & |

The attached compliance plan has been included due to the inability of the two CTs (EU Nos. 001 & 002) to be tested prior to the renewal application due date in 2007. See Attachment CP-1 for additional information.

Facility Attachments Electronic File Name Attachment Description Electronid Date Supplemental Item Documen Uploaded Site Location Map.doc Site Location Map -Yes 03/16/2007 Area Map Showing Facility Location Attachment 2 Facility Plot Plan Site Layout Map -03/16/2007 Site Layout Map.doc Yes Attachment 3 Process Flow Diagram Process Flow Diagram.doc Process Flow Diagram -Yes 03/16/2007 Attachment 3 (s) Precautions to Prevent Precautions of Precautions of Unconfined Yes 03/16/2007 Emissions of Unconfined.doc - Attachment 5 Unconfined Particulate Matter Other Facility TV Renewal Calc.xls Emission Calculations -Yes 03/16/2007 Information Attachment 7 EPA TANKS 4.0.9d Result TANK 4.0.9d.PDF Yes 03/16/2007 Insignificant Activities -03/16/2007 Insignificant Activities.doc Yes List of Insignificant Activities Attachment 6 Compliance Report and 06/19/2007 Compliance Plan.doc Compliance Plan Yes Application Application Description Yes 06/19/2007 Requested Changes to Current Title V Air Description.doc Operation Permit

III. EMISSIONS UNIT INFORMATION A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

- 1. (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)
 - 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.

| Emissions | Unit I | Description | and Status |
|-----------|--------|----------------|------------|
| CHAICEITH | Out 1 | DC3CI IPUIUII. | anu Status |

| I. | Type of Emissions Unit Addressed in this Section: (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. |
| | 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. |
| 2. | Description of Emissions Unit Addressed in this Section: |

2. Description of Emissions Unit Addressed in this Section:
170MW Simple Cycle Comb Turbine (Phase II Acid Rain unit)

| Ł | | | | | |
|---|----------------------------------|--------------------------------------|------------------------------------|---|---------------------------------|
| | 4. Emissions Unit Status Code: A | 5. Commence Construction Date: | 6. Initial Startup Date: 01-APR-02 | 7. Emissions Unit Major Group SIC Code: 49 | 8. Acid Rain Unit? ✓ Yes ✓ No |
| ſ | 9. Package Uni | t GENERAL ELECT | TRIC M | odel Number: PG7 | 7241FA |

9. Package Unit GENERAL ELECTRIC Model Number: PG7241FA Manufacturer:

10. Generator Nameplate Rating: 170 MW

Emissions Unit Identification Number: 1

11. Emissions Unit Comment: PSD-FL-284. Two identical units. N.G. primary fuel. Peaking units.

| Code | Equipment | Description |
| 28 | STEAM OR WATER INJECTION | Wet injection for oil firing |
| 205 | LOW NOX BURNERS | Dry Low Nox Burners for natural gas firing |

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

| 1. | Maximum Process or Throughput Rate: | | , | | | |
|----|---|-------------------------|------------------------------|--|--|--|
| 2. | Maximum Production Rate: 170 MW | | | | | |
| 3. | . Maximum Heat Input Rate: 1612 million Btu/hr | | | | | |
| 4. | Maximum Incineration Rate: | pounds/hr tons/day | | | | |
| 5. | Requested Maximum Operating Schedule: | | | | | |
| | | hours/day weeks/year | days/week 5000 hours/year | | | |
| 6. | Operating Capacity/Schedule Comment: Based on Natural gas burning. For Fuel oil operation on nat. gas. | is 1806 MMBTU/HR. Ho | ours is maximum single unit | | | |

C. EMISSION POINT (STACK/VENT) INFORMATION (Optional for unregulated emissions units.) Emission Point Description and Type

| 1. | Identification of Point on Plot Plan or Flow Diagram: | | Emission Point Type Code: 1 - A single emission point serving a single emissions unit | | | |
|-----|--|---|---|---------------------------|--|--|
| 3. | Descriptions of Emission Poi | ints Comprising th | his Emissions Unit for VE Tracking: | | | |
| 4. | ID Numbers or Descriptions | of Emission Units | with this Emissic | on Point in Common: | | |
| 5. | Discharge Type Code: (V) A STACK WITH AN UNOBSTRUCTED OPENING DISCHARGING IN A VERTICAL/NEARLY VERTICAL DIRECTION | 6. Stack Height: 75 feet | | 7. Exit Diameter: 23 feet | | |
| 8. | Exit Temperature: 1113° F | 9. Actual Volum Rate: 2646000 acf | | 10. Water Vapor: | | |
| 11. | . Maximum Dry Standard Flow dscfm | w Rate: | 12. Nonstack Emission Point Height: feet | | | |
| 13. | 13. Emission Point UTM Coordinates Zone: East (km): North (km): | | 14. Emission Point Latitude/Longitude Latitude: Longitude: | | | |
| 15. | Emission Point Comment: | | | | | |

D. SEGMENT (PROCESS/FUEL) INFORMATION Segment Description and Rate: Segment 1 of 2

| 1. | Segment Description (Process/Fuel Type): Backup fuel (fuel oil) | | | | | |
|-----|--|----------------------------------|--|--------------------------------------|--|--|
| 2. | 2. Source Classification Code (SCC): 20100101 | | 3. SCC Units: 1000 Gallons Distillate Oil (Diesel) Burned | | | |
| 4. | Maximum Hourly Rate: 13.9 | 5. Maximum Annual Rate: 13900 | | 6. Estimated Annual Activity Factor: | | |
| 7. | Maximum % Sulfur: .05 | 8. Maximum % | 6 Ash: | 9. Million Btu per SCC Unit: 130 | | |
| 10. | 0. Segment Comment: Based on 7.1 lb/gal of 18,3000 Btu/lb ISO conditions. Hours of operation:1000/yr | | | | | |
| | Is this a valid segment? Yes | | | | | |

Segment Description and Rate: Segment 2 of 2

| 1. | Segment Description (Process/Fuel Type): Primary Fuel (Nat. gas) | | | | | |
|-----|---|--------------------------|---|--------------------------------------|--|--|
| 2. | Source Classification Code (20100201 | SCC): | 3. SCC Units: Million Cubic Feet Natural Gas Burned | | | |
| 4. | Maximum Hourly Rate: | 5. Maximum <i>A</i> 5752 | Annual Rate: | 6. Estimated Annual Activity Factor: | | |
| 7. | Maximum % Sulfur: | 8. Maximum 9 | ∕₀ Ash: | 9. Million Btu per SCC Unit: 950 | | |
| 10. | 0. Segment Comment: Based on 950 Btu/cf(LHV); ISO conditions and 3390 hrs/operation | | | | | |
| | Is this a valid segment? Yes | | | | | |

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

| 1. Pollutant Emitted | 2. Primary Control | 3. Secondary Control | 4. Pollutant | Valid? |
|----------------------|--------------------|--------------------------|--------------|--------|
| | Device Code | Device Code | Regulatory | |
| | | | Code | į |
| CO | | | , EL | Yes |
| H095 | | | | No |
| H104 | | | | No |
| H106 | | | | No |
| H113 | | | | No |
| HAPS | | | | No |
| NOX | LOW NOX BURNERS | STEAM OR WATER INJECTION | EL | Yes |
| PB | | | | No |
| PM | | | | Yes |
| PM10 | | | EL | Yes |
| SAM | | | | No |
| SO2 | | | EL | Yes |
| VOC | | | EL | Yes |

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.

Complete for each emissions-limited pollutant identified in Subsection E if applying for an air

operation permit.

| 1. | Pollutant Emitted: CO - Carbon Monoxide | 2. Total Percent Efficiency of Control: | | | |
|------|--|---|------------|-----------------------|---|
| 3. | Potential Emissions: 71.4 lb/hour 86.49 to | ons/year | 4. Lin | nthen nited Yes | - - |
| 5. | Range of Estimated Fugitive Emissions (as approximated to to | olicable): ons/year | | | |
| 6. | Emission Factor: Reference: | | ; | 7. | Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST- CASE ALLOWABLE EMISSION. |
| 8.a. | . Baseline Actual Emissions (if required): tons/year | 8.b. Baselir From: | ne 24-mo | onth | Period: To: |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years | | | |
| 10. | Calculation of Emissions: | | | | |
| 11. | Pollutant Potential, Fugitive, and Actual Emissi Ton/year potential based on 2390 hr/yr on gas a (gas) and 71.4 lb/hr (oil). See attached potentia | and 1000 hr/y | yr on oil. | | |

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 2

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | 2. Future Effective Date of Allowable Emissions:01-JUL-02 | | | |
|----|---|---|--|--|--|--|
| 3. | Allowable Emissions and Units: 12 PARTS PER MILLION DRY GAS VOLUME | 4. Equivalent Allowable Emissions: 42.5 lb/hour 72.04 tons/ | | | | |
| 5. | Method of Compliance: Stack test | | | | | |
| 6. | Allowable Emissions Comment (Description of Operating Method): Natural gas firing for 3390 hr/yr. | | | | | |

Allowable Emissions 2 of 2

Fuel oil firing. Limited to 1000 hr/yr.

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | Future Effective Date of Allowable Emissions: 01-JUL-02 | | | |
|----|---|-------|--|--|--|--|
| 3. | Allowable Emissions and Units: 20 PARTS PER MILLION DRY GAS VOLUME | 4. | Equivalent Allowable Emissions: 71.4 lb/hour 35.7 tons/year | | | |
| 5. | Method of Compliance: Stack test | | | | | |
| 6. | Allowable Emissions Comment (Description | of Op | perating Method): | | | |

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.

Complete for each emissions-limited pollutant identified in Subsection E if applying for an air

operation permit.

| 1. | Pollutant Emitted: H095 - Formaldehyde | 2. Total Percent Efficiency of Control: | | | | |
|------|--|---|---------|---------------|---------------------|-----|
| 3. | Potential Emissions: lb/hour to | 4. Synthetically Limited? | | | | |
| 5. | 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | | | |
| 6. | Emission Factor: Reference: | | | 7. En | nissions Method Cod | de: |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baselir From: | ne 24-m | I onth Per | riod: To: | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years | | | | |
| 10. | Calculation of Emissions: | | | | | |
| 11. | 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: | | | | | |

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.

Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: H104 - Hexane | 2. Total Percent Efficiency of Control: | | | | |
|------|--|---|----------|----------|-----------------------|--|
| 3. | Potential Emissions: lb/hour to | tons/year 4. Synthetically Limited? Yes | | | | |
| 5. | 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | | | |
| 6. | Emission Factor: | | | 7. En | nissions Method Code: | |
| | Reference: | | | | | |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baselin From: | ne 24-mo | onth Per | iod: To: | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projected Monitoring Period: 5 years 10 years | | | | |
| 10. | Calculation of Emissions: | | | | | |
| 11. | 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: | | | | | |

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: H106 - Hydrogen chloride (Hydrochloric acid) | 2. Total Percent Efficiency of Control: | | | |
|------|---|---|------------------|-----------------------------|-----------------------|
| 3. | Potential Emissions: lb/hour to | ons/year | 4. Lin | ntheticall nited? Yes | ly □ No |
| 5. | Range of Estimated Fugitive Emissions (as app to to | olicable): ons/year | | | |
| 6. | Emission Factor: Reference: | | | 7. Em | nissions Method Code: |
| 8.a. | . Baseline Actual Emissions (if required): tons/year | 8.b. Baselir From: | ne 24-mo | | iod: To: |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projecto | ed Monit ears | toring Pe | eriod: |
| 10. | Calculation of Emissions: | | | | |
| 11. | Pollutant Potential, Fugitive, and Actual Emissi | ons Commer | nt: | | |

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air

operation permit. 2. Pollutant Emitted: Total Percent Efficiency of Control: H113 - Manganese Compounds Synthetically 4. 3. Potential Emissions: Limited? lb/hour tons/year □ Yes □ No Range of Estimated Fugitive Emissions (as applicable): to tons/year **Emission** 6. Factor: 7. Emissions Method Code: Reference: 8.a. Baseline Actual Emissions (if required): 8.b. Baseline 24-month Period: tons/year From: To: 9.b. Projected Monitoring Period: 9.a. Projected Actual Emissions (if required): □ 5 years tons/year □ 10 years 10. Calculation of Emissions: 11. Pollutant Potential, Fugitive, and Actual Emissions Comment:

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.

Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: HAPS - Total Hazardous Air Pollutants | 2. Total Percent Efficiency of Control: | | | | | |
|------|--|---|-----------------|----------------|----------------|------------------|--|
| 3. | Potential Emissions: | ons/year | 4. Lir | nthet nited | | ┌ No | |
| 5. | Range of Estimated Fugitive Emissions (as app to to | olicable): ons/year | | | | | |
| 6. | Emission Factor: | | | 7. | Emissi | ons Method Code: | |
| | Reference: | | | | | | |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baselir From: | ne 24-m | onth | Period: To: | | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projecte ☐ 5 y | ed Moni ears | torin | • | d: 10 years | |
| 10. | Calculation of Emissions: | | | | | | |
| 11. | 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: | | | | | | |

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: NOX - Nitrogen Oxides | 2. Total P | Percent Efficiency of Control: | | | | |
|------|---|------------------------|--------------------------------|----------------------------------|------|---|--|
| 3. | Potential Emissions: 351 lb/hour 252.1 to | ons/year | 4. | 4. Synthetically Limited? ☐ Yes | | | |
| 5. | Range of Estimated Fugitive Emissions (as app to to | olicable): ons/year | | | | | |
| 6. | Emission Factor: Reference: | | | | 7. | Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST- CASE ALLOWABLE EMISSION. | |
| 8.a. | . Baseline Actual Emissions (if required): tons/year | 8.b. Baselin From: | ne 24 | 4-mc | nth | Period: To: | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projecto ☐ 5 y | ed M | | orir | ng Period: ☐ 10 years | |
| 10. | Calculation of Emissions: | | | | | | |
| 11. | Pollutant Potential, Fugitive, and Actual Emissions Comment: Ton/year potential based on 2390 hr/yr on gas and 1000 hr/yr on oil, with emission factors of 64.1 (gas) and 351 lb/hr (oil). See attached potential emissions calculation sheet. | | | | | | |

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 2

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | Future Effective Date of Allowable Emissions: 01-JUL-02 | |
|----|---|-------|--|----|
| 3. | Allowable Emissions and Units: 9 PARTS PER MILLION DRY GAS VOLUME @ 15% O2 | 4. | Equivalent Allowable Emissions: 64.1 lb/hour 108.65 tons/yea | ar |
| 5. | Method of Compliance: Stack test and CEMS 24 hours block average | - | | |
| 6. | Allowable Emissions Comment (Description of Natural gas firing for 3390 hr/yr. | of Op | perating Method): | |

Allowable Emissions 2 of 2

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | Future Effective Date of Allowable Emissions: 01-JUL-02 |
|----|---|----|---|
| 3. | Allowable Emissions and Units: 42 PARTS PER MILLION DRY GAS VOLUME @ 15% O2 | 4. | Equivalent Allowable Emissions: 351 lb/hour 175.5 tons/year |

Method of Compliance:Stack test and CEMS on the basis of 3 hours average.

6. Allowable Emissions Comment (Description of Operating Method): Fuel oil firing. Limited to 1000 hr/yr.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.

Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: PB - Lead - Total (elemental lead and lead compounds) | 2. Total Percent Efficiency of Control: | | | | | |
|----------|--|---|--------------------------------------|------|-------|----------------|------------------|
| 3. | Potential Emissions: lb/hour to | ons/year | 4. Synthetically Limited? T Yes No | | | | ┌ No |
| 5. | Range of Estimated Fugitive Emissions (as approximately to to | olicable): ons/year | | | | | |
| 6. | Emission Factor: Reference: | | | | 7. | Emissi | ons Method Code: |
| <u> </u> | | | | | | | <u> </u> |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baselin From: | ne 24 | 4-mc | onth | Period: To: | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projecto | ed M ears | | torin | _ | d: 10 years |
| 10. | Calculation of Emissions: | | | | | | |
| 11. | Pollutant Potential, Fugitive, and Actual Emissi | ons Commer | nt: | | | | |

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

(Optional for unregulated emissions units.)

| 1. | Pollutant Emitted: | 2. Total Percent Efficiency of Control: | | | | | | |
|----------|--|---|-----------------|------------------------|---|--|--|--|
| <u> </u> | PM - Particulate Matter - Total | | | | | | | |
| 3. | Potential Emissions: 17 lb/hour 20.45 to | ons/year | ^{4.} I | Synthe Limite Ye | | | | |
| 5. | 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | | | | | |
| 6. | Emission Factor: Reference: | | | 7. | Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST- CASE ALLOWABLE EMISSION. | | | |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baselin From: | ne 24- | month | Period: To: | | | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projecto ☐ 5 y | ed Mo ears | nitori | ng Period: ☐ 10 years | | | |
| 10. | Calculation of Emissions: | | | | | | | |
| 11. | Pollutant Potential, Fugitive, and Actual Emissions Comment: Ton/year potential based on 2390 hr/yr on gas and 1000 hr/yr on oil, with emission factors of 10 (gas) and 17 lb/hr (oil). See attached potential emissions calculation sheet. | | | | | | | |

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 2

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | Future Effective Date of Allowable Emissions: | | | |
|----|---|------|---|------------------------------|--|--|
| 3. | Allowable Emissions and Units: 10 POUNDS/HOUR | 4. | Equivalent Allowable E 10 lb/hour | missions: 16.95 tons/year | | |
| 5. | Method of Compliance: VE serve as surrogate. | • | | | | |
| 6. | Allowable Emissions Comment (Description o Natural gas firing for 3390 hr/yr. | f Op | erating Method): | | | |

Allowable Emissions Allowable Emissions 2 of 2

| CF/TT | Anowable Emissions Anowable Emissions 2 of 2 | | | | | | | | | |
|-------|---|------|--|--|--|--|--|--|--|--|
| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | Future Effective Date of Allowable Emissions: | | | | | | | |
| 3. | Allowable Emissions and Units: 17 POUNDS/HOUR | 4. | Equivalent Allowable Emissions: 17 lb/hour 8.5 tons/year | | | | | | | |
| 5. | Method of Compliance: VE serve as surrogate. | | | | | | | | | |
| 6. | Allowable Emissions Comment (Description o Fuel oil firing. Limited to 1000 hr/yr. | f Op | erating Method): | | | | | | | |

(Optional for unregulated emissions units.)

| 1. | Pollutant Emitted: PM10 - Particulate Matter - PM10 | 2. Total Percent Efficiency of Control: | | | | | | |
|------|--|---|------|------|-----------------------|----------------------------------|--|--|
| 3. | Potential Emissions: 17 lb/hour 20.45 to | ons/year | 4. | Lin | nthen nited Yes | | ™ No | |
| 5. | 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | | | | | |
| 6. | Emission Factor: Reference: | | | : | 7. | (0) EQ EQUIV ALLO EMISS | ons Method Code: UAL TO VALENT WABLE SION/WORST- ALLOWABLE SION. | |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baselir From: | ne 2 | 4-mc | onth | Period: To: | | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years | | | | | | |
| 10. | Calculation of Emissions: | | | | | | | |
| 11. | 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Ton/year potential based on 2390 hr/yr on gas and 1000 hr/yr on oil, with emission factors of 10 (gas) and 17 lb/hr (oil). See attached potential emissions calculation sheet. | | | | | | | |

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

| Allowable Emissions | Allowable Emi | ccione 1 | af ? |
|---------------------|-----------------|-----------|------|
| AHOWADIE EHHSSIUHS | Allowable cilli | 5510115 1 | O1 4 |

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | Future Effective Date of Allowable Emissions: 01-JUL-02 | | | | |
|----|---|----------|---|----------------------------|--|--|--|
| 3. | Allowable Emissions and Units: 17 POUNDS/HOUR | 4. | Equivalent Allowable En | nissions: 8.5 tons/year | | | |
| 5. | Method of Compliance: VE serve as surrogate. | • | | | | | |
| 6. | Allowable Emissions Comment (Description Fuel oil firing. Limited to 1000 hr/yr. | on of Op | perating Method): | | | | |

Allowable Emissions Allowable Emissions 2 of 2

| Allo | Allowable Emissions Allowable Emissions 2 of 2 | | | | | | | | | |
|------|---|---|--|--|--|--|--|--|--|--|
| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | Future Effective Date of Allowable Emissions: | | | | | | | | |
| 3. | Allowable Emissions and Units: 10 POUNDS/HOUR | 4. Equivalent Allowable Emissions: 10 lb/hour 16.95 tons/year | | | | | | | | |
| 5. | Method of Compliance: VE serve as surrogate. | | | | | | | | | |
| 6. | Allowable Emissions Comment (Description of Operating Method): Natural gas firing for 3390 hr/yr. | | | | | | | | | |

(Optional for unregulated emissions units.)

| 1. | Pollutant Emitted: SAM - Sulfuric Acid Mist | 2. Total Percent Efficiency of Control: | | | | | | | |
|----------|--|---|-------|-------|-----------------------|--------------|--------------------|--|--|
| 3. | Potential Emissions: lb/hour to | ons/year | 4. | Lin | ithet nited Yes | | □ No | | |
| 5. | 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | | | | | | |
| 6. | Emission Factor: Reference: | | | | 7. | Emiss | sions Method Code: | | |
| <u> </u> | | <u> </u> | | | | | | | |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baselir From: | 1e 24 | 1-mo | nth | Period To | | | |
| 9.a. | Projected Actual Emissions (if required): | 9.b. Projecto | ed M | Ionit | orin | g Perio | od: | | |
| | tons/year | Г 5 у | ears | | | Γ | 10 years | | |
| 10. | Calculation of Emissions: | | | | | | • | | |
| 11. | 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: | | | | | | | | |

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

(Optional for unregulated emissions units.)

| 1. | Pollutant Emitted: SO2 - Sulfur Dioxide | 2. Total Percent Efficiency of Control: | | | | | | |
|------|---|---|------|------|-----------------------|----------------------------------|--|--|
| 3. | Potential Emissions: | ons/year | 4. | Lin | nthet nited Yes | | ₩ No | |
| 5. | 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | | | | | |
| 6. | Emission Factor: Reference: | | | | 7. | (0) EQ EQUIV ALLO EMISS | ons Method Code: UAL TO VALENT WABLE SION/WORST- ALLOWABLE SION. | |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baselir From: | ne 2 | 4-mc | nth | Period: To: | | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projected Monitoring I | | | | | d: 10 years | |
| 10. | Calculation of Emissions: | | | | | | | |
| 11. | 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Ton/year potential based on 2390 hr/yr on gas and 1000 hr/yr on oil, with emission factors of 5 (gas) and 98.7 lb/hr (oil). See attached potential emissions calculation sheet. | | | | | | | |

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 2

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | 2. Future Effective Date of Allowable Emissions:01-JUL-02 | | | | | |
|----|---|---------|--|----------------------------|--|--|--|--|
| 3. | Allowable Emissions and Units: .05 PERCENT SULFUR IN FUEL | 4. | Equivalent Allowable F 98.7 lb/hour | Emissions: 49.35 tons/year | | | | |
| 5. | Method of Compliance: Fuel Analysis | | | | | | | |
| 6. | Allowable Emissions Comment (Description Fuel oil firing. Limited to 1000 hr/yr. | n of Op | perating Method): | | | | | |

Allowable Emissions Allowable Emissions 2 of 2

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | Future Effective Date of Allowable Emissions: 01-JUL-02 | | | | | |
|----|--|----|--|--|--|--|--|--|
| 3. | Allowable Emissions and Units: 1 OTHER (SPECIFY IN COMMENT) | 4. | Equivalent Allowable Emissions: 5 lb/hour 8.475 tons/ye | | | | | |
| 5. | Method of Compliance: Fuel Analysis | | | | | | | |

6. Allowable Emissions Comment (Description of Operating Method):
Allowable unit: 1 grainsulfur per 100 scf. Natural gas firing for 3390 hr/yr.

(Optional for unregulated emissions units.)

| 1. | Pollutant Emitted: VOC - Volatile Organic Compounds | 2. Total Percent Efficiency of Control: | | | | | | |
|------|--|--|--------|-----------------------------------|--|--|--|--|
| 3. | Potential Emissions: 16.2 lb/hour 11.45 to | ons/year | 4. Li | nthetically mited? Yes | √ I ^o No | | | |
| 5. | 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | | | | | |
| 6. | Emission Factor: Reference: | | | (0) I EQU ALI EMI CAS | ssions Method Code: EQUAL TO JIVALENT LOWABLE ISSION/WORST- SE ALLOWABLE ISSION. | | | |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baseline 24-month Period: From: To: | | | | | | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projecto ☐ 5 y | ed Mon | itoring Per | • | | | |
| 10. | Calculation of Emissions: | | | | | | | |
| 11. | 1. Pollutant Potential, Fugitive, and Actual Emissions Comment: Ton/year potential based on 2390 hr/yr on gas and 1000 hr/yr on oil, with emission factors of 2.8 (gas) and 16.2 lb/hr (oil). See attached potential emissions calculation sheet. | | | | | | | |

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 2

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | Future Effective Date of Allowable Emissions: 01-JUL-02 |
|----|--|----|---|
| 3. | Allowable Emissions and Units: 1.4 PARTS PER MILLION DRY GAS VOLUME | 4. | Equivalent Allowable Emissions: 2.8 lb/hour 4.746 tons/year |
| 5. | Method of Compliance: Initial Test | | |
| 6. | Allowable Emissions Comment (Description of Operating Method): Natural gas firing for 3390 hr/yr. Initial test only. | | |

Allowable Emissions Allowable Emissions 2 of 2

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | Future Effective Date of Allo Emissions: 01-JUL-02 | wable | |
|----|---|----|--|-------------|-------|
| 3. | Allowable Emissions and Units: 7 OTHER (SPECIFY IN COMMENT) | 4. | Equivalent Allowable Emissi 16.2 lb/hour | | /year |
| 5. | Method of Compliance: Initial Test | | | | |

6. Allowable Emissions Comment (Description of Operating Method): Unit: ppmvw. Fuel oil firing. Limited to 1000 hr/yr. Initial test only.

G. VISIBLE EMISSIONS INFORMATION
Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

| <u>Vişi</u> | sible Emissions Limitation: Visible Emissions Limitation 1 of 1 | | | | | |
|-------------|---|-------|--------------------------|-----------------------|--|--|
| 1. | Visible Emissions Subtype: VE10 - VISIBLE EMISSIONS - 10% NORMAL OPACITY | 2. | Basis for Allowa ✓ Rule | ble Opacity: ☐ Other | | |
| 3. | Allowable Opacity: Normal Conditions: 10% Excep Maximum Period of Excess Opacity Allowed: | otion | nal Conditions: | % min/hour | | |
| 4. | Method of Compliance: EPA METHOD 9 | | | | | |
| 5. | Visible Emissions Comment: (VE limit for gas or oil), VE surrogate for PM/ | PM1 | 0 emissions | | | |

H. CONTINUOUS MONITOR INFORMATION

Complete if this emissions unit is or would be subject to continuous monitoring.

| | D | 2 7 11 |
|-----------|--|--|
| 1. | Parameter Code: | 2. Pollutant(s): |
| | EM - EMISSION | NOX |
| 3. | CMS Requirement: | ☐ Rule ☐ Other |
| ١. | Monitor Information | **** |
| | Manufacturer: THERMO ENVIRONI | MENTAL |
| | Model 42C | Serial 42CHL71720-30 |
| | Number: 42C | Number: 42CHL/1/20-30 |
| 5. | Installation Date: | 6. Performance Specification Test Date |
| | 14-MAY-02 | 14-MAY-02 |
| 7. | Continuous Monitor Comment: | |
| | | |
| | NOX monitor | |
| | | |
| | NOX monitor Status: Active | |
| | Status: Active | uous Monitor 2 of 3 |
| | Status: Active | uous Monitor 2 of 3 2. Pollutant(s): |
| | Status: Active | |
| Cor 1. | Status: Active ntinuous Monitoring System: Continuous Parameter Code: | |
| 1. 3. | Status: Active Itinuous Monitoring System: Continuous Parameter Code: O2 - Oxygen CMS Requirement: | 2. Pollutant(s): |
| 1. 3. | Status: Active ntinuous Monitoring System: Continu Parameter Code: O2 - Oxygen CMS Requirement: Monitor Information | 2. Pollutant(s): |
| 1. | Status: Active Intinuous Monitoring System: Continuous Monitoring System: Continuous Parameter Code: O2 - Oxygen CMS Requirement: Monitor Information Manufacturer: SERVOMEX | 2. Pollutant(s): |
| 1. 3. | Status: Active ntinuous Monitoring System: Continu Parameter Code: O2 - Oxygen CMS Requirement: Monitor Information | 2. Pollutant(s): |
| 3. | Status: Active Intinuous Monitoring System: Continuous Monitoring | 2. Pollutant(s): Table Tother |
| 1. 3. | Status: Active ntinuous Monitoring System: Continu Parameter Code: O2 - Oxygen CMS Requirement: Monitor Information Manufacturer: SERVOMEX Model 1400 | 2. Pollutant(s): Rule |

Status: Active

| <u>Con</u> | ntinuous Monitoring System: Continuous Monitor 3 of 3 | | | | |
|------------|--|----|------------------|----------------------|--|
| 1. | Parameter Code: FLOW - Volumetric flow rate | 2. | Pollutant(s): | | |
| 3. | CMS Requirement: | Γ | Rule | ☐ Other | |
| 4. | Monitor Information Manufacturer: MICRO MOTION Model Number: DS300S255SU | | Seria Number | al 246426 | |
| 5. | Installation Date: 01-MAY-02 | 6. | Performance Spec | ification Test Date: | |
| 7. | Continuous Monitor Comment: Oil Flow | | | | |
| | Status: Active | | | | |

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I. EMISSIONS UNIT ADDITIONAL INFORMATION Additional Requirements for All Applications, Except as Otherwise Stated

| 1. | Process Flow Diagram (Required for all permit applications, excerevision applications if this information was submitted to the department of the revision being sources.) | rtment within the previous five |
|----|--|---------------------------------|
| | ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| 2. | Fuel Analysis or Specification (Required for all permit application permit revision applications if this information was submitted to the previous five years and would not be altered as a result of the revision of the previously Submitted, Date: | ne department within the |
| - | | |
| 3. | Detailed Description of Control Equipment (Required for all perm air operation permit revision applications if this information was s within the previous five years and would not be altered as a result Applicable Previously Submitted, Date: | ubmitted to the department |
| 4. | Procedures for Startup and Shutdown (Required for all operation p V air operation permit revision applications if this information was within the previous five years and would not be altered as a result Applicable Previously Submitted, Date: | s submitted to the department |
| 5. | Operation and Maintenance Plan (Required for all permit application permit revision applications if this information was submitted to the previous five years and would not be altered as a result of the revision of the Previously Submitted, Date: | ne department within the |
| 6. | Compliance Demonstration Reports/Records | |
| | Applicable | ☐ Attachment |
| | To be Submitted Test Date(s)/Pollutants Tested: | |
| | Note: For FESOP applications, all required compliance demonstra submitted at the time of application. For Title V air operation perm compliance demonstration reports/records must be submitted at the compliance plan must be submitted at the time of application. | nit applications, all required |
| 7. | Other Information Required by Rule or Statute | |
| 1 | ☐ Applicable | ☐ Attachment |

| <u>Additi</u> | ional Requirements for Little V Air Operation Permit Applications | |
|---------------|---|--------------|
| 1. I | dentification of Applicable Requirements | |
| | Applicable | ☐ Attachment |
| 2. C | Compliance Assurance Monitoring Plan | |
| | Applicable | ☐ Attachment |
| 3. A | Alternative Methods of Operation | |
| r | Applicable | ☐ Attachment |
| 4. A | Alternative Modes of Operation (Emissions Trading) | |
| ſ | Applicable | ☐ Attachment |
| 5. A | acid Rain Part Application | |
| | Certificate of Representation (EPA Form No. 7610-1) | |
| | ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| | Acid Rain Part (Form No. 62-210.900(1)(a)) | |
| } | ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| ĺ | Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) | |
| | ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| | New Unit Exemption (Form No. 62-210.900(1)(a)2.) | |
| | ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| | Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) | |
| | ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| | Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) | |
| | ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| | Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) | |
| | ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| | | |

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| | <u>ons</u> |
|---|---|
| Control Technology Review and Analysis (Rules 62-212.400(1 CFR 63.43(d) and (e)) | 10) and 62-212.500(7), F.A.C.; 40 |
| ☐ Applicable | ☐ Attachment |
| Good Engineering Practice Stack Height Analysis (Rule 62-212 212.500(4)(f), F.A.C.) | 2.400(4)(d), F.A.C., and Rule 62- |
| ☐ Applicable | ☐ Attachment |
| Description of Stack Sampling Facilities (Required for propose only) | ed new stack sampling facilities |
| ☐ Applicable | ☐ Attachment |
| | |
| Other Emissions Unit Information | · |
| ☐ Applicable | ☐ Attachment |
| Note: Provide any other information related to the emissions ur Information Section that is not elsewhere provided in the applic that you, the applicant, believe may be helpful. | |
| litional Requirements Comment | |
| | CFR 63.43(d) and (e)) Applicable Good Engineering Practice Stack Height Analysis (Rule 62-21 212.500(4)(f), F.A.C.) Applicable Description of Stack Sampling Facilities (Required for propose only) Applicable er Information Regarding this Emissions Unit Other Emissions Unit Information Applicable Note: Provide any other information related to the emissions un Information Section that is not elsewhere provided in the application. |

III. EMISSIONS UNIT INFORMATION A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

- (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)
 - 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.

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- Type of Emissions Unit Addressed in this Section: (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.
 - 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.
- Description of Emissions Unit Addressed in this Section: 170MW Simple Cycle Comb Turbine (Phase II Acid Rain unit)
- Emissions Unit Identification Number: 2

| 4. Emissions Unit Status Code: | Commence Construction Date: | 6. Initial Startup Date: 01-APR-02 | 7. Emissions Unit Major Group SIC Code: 49 | 8. Acid Rain Unit? 「Yes 「No |
|--------------------------------|-----------------------------|------------------------------------|---|-----------------------------------|
|--------------------------------|-----------------------------|------------------------------------|---|-----------------------------------|

Package Unit GENERAL ELECTRIC

Model Number:

PG7241FA

Manufacturer:

10. Generator Nameplate Rating: 170

MW

11. Emissions Unit Comment:

Two identical units. N.G. primary fuel. Peaking units.

| <u>Emissio</u> | Emissions Unit Control Equipment | | | | |
|----------------|----------------------------------|--|--|--|--|
| Code | Equipment | Description | | | |
| 28 | STEAM OR WATER INJECTION | Wet injection for oil firing | | | |
| 205 | LOW NOX BURNERS | Dry Low Nox Burners for natural gas firing | | | |

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B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

| 1. | Maximum Process or Throughput Rate: | | | |
|----|---|---------------------------------------|----------------------------|--|
| 2. | Maximum Production Rate: 170 MW | | | |
| 3. | Maximum Heat Input Rate: 1612 million Bo | tu/hr | | |
| 4. | Maximum Incineration Rate: | pounds/hr tons/day | | |
| 5. | Requested Maximum Operating Schedule: | · · · · · · · · · · · · · · · · · · · | | |
| | | hours/day | days/week | |
| | | weeks/year | 5000 hours/year | |
| 6. | Operating Capacity/Schedule Comment: | | | |
| | Based on Natural gas burning. For Fuel oil i operation on nat. gas. | is 1806 MMBTU/HR. Ho | urs is maximum single unit | |

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type Identification of Point on Plot Plan or Flow Emission Point Type Code: Diagram: 1 - A single emission point serving a single emissions unit 3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: ID Numbers or Descriptions of Emission Units with this Emission Point in Common: 5. Discharge Type Code: (V) A STACK WITH AN **UNOBSTRUCTED** 6. Stack Height: 7. Exit Diameter: **OPENING** 75 feet 23 feet DISCHARGING IN A VERTICAL/NEARLY **VERTICAL DIRECTION** Actual Volumetric Flow 9. 10. Water Vapor: 8. Exit Temperature: Rate: 1113° F % 2646000 acfm 11. Maximum Dry Standard Flow Rate: 12. Nonstack Emission Point Height: dscfm feet 13. Emission Point UTM Coordinates... 14. Emission Point Latitude/Longitude... Zone: East (km): Latitude:

North (km):

15. Emission Point Comment:

Longitude:

D. SEGMENT (PROCESS/FUEL) INFORMATION

| Segi | ment Description and Rate: | Segment 1 of 2 | | | | | | |
|------|---|--|--|-----------------------------------|-----------------------------------|--|--|--|
| 1. | Segment Description (Proces | ss/Fuel Type): | | | | | | |
| 2. | Source Classification Code (20100101 | SCC): | 3. SCC Units: 1000 Gallons Distillate Oil (Diesel) Burned | | | | | |
| 4. | Maximum Hourly Rate: 13.9 | 5. Maximum A 13900 | Annual Rate: | Estimated Annual Activity Factor: | | | | |
| 7. | Maximum % Sulfur: | 8. Maximum % | 6 Ash: | 9. | Million Btu per SCC Unit: 130 | | | |
| 10. | 10. Segment Comment: Based on 7.1 lb/gal; LHV of 18,300 Btu/lb ISO conditions, 1000 hrs/yr operation. | | | | | | | |
| | Is this a valid segment? Yes | | | | | | | |
| Segi | ment Description and Rate: | Segment 2 of 2 | | | | | | |
| 1. | Segment Description (Proces | ss/Fuel Type): | | | | | | |
| 2. | Source Classification Code (20100201 | SCC): | 3. SCC Units: Million Cub | ic Fe | et Natural Gas Burned | | | |
| 4. | Maximum Hourly Rate: | 5. Maximum <i>A</i> 5752 | Annual Rate: | 6. | Estimated Annual Activity Factor: | | | |
| 7. | Maximum % Sulfur: | aximum % Sulfur: 8. Maximum % Ash: 9. Million Btu per SCC Ur | | | | | | |

Based on 950 Btu/cf(LHV); ISO conditions and 3390 hrs/operation

10. Segment Comment:

Is this a valid segment? Yes

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

| 1. Pollutant Emitted | 2. Primary Control Device Code | 3. Secondary Control Device Code | 4. Pollutant Regulatory Code | Valid? |
|----------------------|-----------------------------------|-------------------------------------|------------------------------------|--------|
| СО | | | EL | Yes |
| H095 | | | | No |
| H104 | | | | No |
| H106 | | , ,,,, | | No |
| H113 | | | | No |
| HAPS | | | | No |
| NOX | LOW NOX BURNERS | STEAM OR WATER INJECTION | EL | Yes |
| PB | | | | No |
| PM | | | | Yes |
| PM10 | | | EL | Yes |
| SAM | | | | No |
| SO2 | | | | Yes |
| VOC | | | EL | Yes |

(Optional for unregulated emissions units.)

| 1. | Pollutant Emitted: | 2. Total Percent Efficiency of Control: | | | | | | |
|------|--|---|--------------|------|---------------------|---|--|--|
| 3. | Potential Emissions: 71.4 lb/hour 86.49 to | ons/year | 4. | Lin | thet ited Yes | | | |
| 5. | 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | | | | | |
| 6. | Emission Factor: Reference: | | | | 7. | Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST- CASE ALLOWABLE EMISSION. | | |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baselir From: | ne 24 | 1-mo | nth l | Period: To: | | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projecto | ed M ears | | orin | g Period: 10 years | | |
| 10. | Calculation of Emissions: | | | | | | | |
| 11. | 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Ton/year potential based on 2390 hr/yr on gas and 1000 hr/yr on oil, with emission factors of 42.5 (gas) and 71.4 lb/hr (oil). See attached potential emissions calculation sheet. | | | | | | | |

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 2

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | Future Effective Date of Allowable Emissions: 01-JUL-02 | | | |
|----|---|------|--|------------------------------|--|--|
| 3. | Allowable Emissions and Units: 12 PARTS PER MILLION DRY GAS VOLUME | 4. | Equivalent Allowable E 42.5 lb/hour | missions: 72.04 tons/year | | |
| 5. | Method of Compliance: Stack test | | | | | |
| 6. | Allowable Emissions Comment (Description Natural gas firing for 3390 hr/yr. | of O | perating Method): | | | |

Allowable Emissions Allowable Emissions 2 of 2

| <u>Allo</u> | owable Emissions Allowable Emissions 2 of 2 | | | | | | | |
|-------------|---|---|---|--|--|--|--|--|
| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | Future Effective Date of Allowable Emissions: 01-JUL-02 | | | | | | |
| 3. | Allowable Emissions and Units: 20 PARTS PER MILLION DRY GAS VOLUME | 4. | Equivalent Allowable Emissions: 71.4 lb/hour 35.7 tons/year | | | | | |
| 5. | Method of Compliance: Stack test | | | | | | | |
| 6. | Allowable Emissions Comment (Description o Fuel oil firing. Limited to 1000 hr/yr. | f Op | erating Method): | | | | | |

(Optional for unregulated emissions units.)

| 1. | Pollutant Emitted: H095 - Formaldehyde | 2. Total Percent Efficiency of Control: | | | | | | |
|--|--|---|--------|------------------|----------------|--------------------|--|--|
| 3. | Potential Emissions: lb/hour to | ons/year | 4.] | Synthe Limite | | □ No | | |
| 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | | | | | | |
| 6. | Emission Factor: Reference: | | | 7. | Emis | sions Method Code: | | |
| <u> </u> | | - | | | | · - | | |
| 8.a. | . Baseline Actual Emissions (if required): tons/year | 8.b. Baselir From: | ie 24- | mont | h Period To | | | |
| 9.a. | Projected Actual Emissions (if required): | 9.b. Projecte | ed Mo | nitori | ing Peri | od: | | |
| | tons/year | □ 5 y | ears | | | 10 years | | |
| 10. | Calculation of Emissions: | | | | | | | |
| 11. | Pollutant Potential, Fugitive, and Actual Emissi | ons Commer | nt: | | | | | |

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

(Optional for unregulated emissions units.)

| 1. | Pollutant Emitted: H104 - Hexane | 2. Total Percent Efficiency of Control: | | | | | | |
|--|--|---|--------------|------|-----------------------|--------------|--------------------|--|
| 3. | Potential Emissions: lb/hour to | ons/year | 4. | Lin | ithet nited Yes | | □ No | |
| 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | | | | | | |
| 6. | Emission Factor: | | | | 7. | Emis | sions Method Code: | |
| <u> </u> | Reference: | | | | | | | |
| 8.a. | . Baseline Actual Emissions (if required): tons/year | 8.b. Baselin From: | ie 24 | l-mo | nth | Period To | | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projecte | ed M ears | | orin | g Peri | od: 10 years | |
| 10. | Calculation of Emissions: | | | | | | | |
| 11. | 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: | | | | | | | |

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

(Optional for unregulated emissions units.)

| 1. | Pollutant Emitted: H106 - Hydrogen chloride (Hydrochloric acid) | 2. Total Percent Efficiency of Control: | | | | | | |
|------|--|---|----------|--------------------------|------------------------|--|--|--|
| 3. | Potential Emissions: lb/hour to | ons/year | 4. Lin | nthetic nited? Yes | | | | |
| 5. | 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | | | | | |
| 6. | Emission Factor: Reference: | | | 7 .] | Emissions Method Code: | | | |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baselii From: | ne 24-mo | onth P | eriod: To: | | | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projecto □ 5 y | ed Monit | toring | Period: | | | |
| 10. | Calculation of Emissions: | | | | | | | |
| 11. | 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: | | | | | | | |

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

(Optional for unregulated emissions units.)

| 1. | Pollutant Emitted: H113 - Manganese Compounds | 2. Total Percent Efficiency of Control: | | | | | | |
|--|--|---|-----------------|--------|----------------|------------------|--|--|
| 3. | Potential Emissions: lb/hour to | tons/year 4. Synthetically Limited? | | | | | | |
| 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | | | | | | |
| 6. | Emission Factor: | | | 7. | Emissio | ons Method Code: | | |
| | Reference: | | | | | | | |
| 8.a. | . Baseline Actual Emissions (if required): tons/year | 8.b. Baselin From: | 1e 24-mo | onth I | Period: To: | | | |
| 9.a. | . Projected Actual Emissions (if required): tons/year | 9.b. Projecte | ed Moni ears | toring | | l: 10 years | | |
| 10. | 10. Calculation of Emissions: | | | | | | | |
| 11. | 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: | | | | | | | |

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

(Optional for unregulated emissions units.)

| 1. | Pollutant Emitted: HAPS - Total Hazardous Air Pollutants | 2. Total Percent Efficiency of Control: | | | | | | |
|--|--|---|---------|----------------------|----------------|-------------------|--|--|
| 3. | Potential Emissions: lb/hour to | ons/year | 4. Li | nthe mited Yes | • | □ No | | |
| 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | | | | | | |
| 6. | Emission Factor: Reference: | | | 7. | Emiss | ions Method Code: | | |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baselir From: | ne 24-n | nonth | Period: To: | | | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projecte | ed Mon | itorii | ng Perio | od: 10 years | | |
| 10. | Calculation of Emissions: | | | | | | | |
| 11. | 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: | | | | | | | |

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

2. Total Percent Efficiency of Control: Pollutant Emitted: NOX - Nitrogen Oxides Synthetically 3. Potential Emissions: Limited? 351 lb/hour 252.1 tons/year □ Yes ✓ No Range of Estimated Fugitive Emissions (as applicable): to tons/year Emissions Method Code: (0) EQUAL TO Emission 6. **EQUIVALENT** Factor: **ALLOWABLE** EMISSION/WORST-Reference: CASE ALLOWABLE EMISSION. 8.b. Baseline 24-month Period: 8.a. Baseline Actual Emissions (if required): tons/year From: To: 9.b. Projected Monitoring Period: 9.a. Projected Actual Emissions (if required): tons/year □ 5 years □ 10 years 10. Calculation of Emissions: 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Ton/year potential based on 2390 hr/yr on gas and 1000 hr/yr on oil, with emission factors of 64.1 (gas) and 351 lb/hr (oil). See attached potential emissions calculation sheet.

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 2

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | Future Effective Date of AllowableEmissions:01-JUL-02 | | | |
|----|---|----|---|--|--|--|
| 3. | Allowable Emissions and Units: 9 PARTS PER MILLION DRY GAS VOLUME @ 15% O2 | 4. | Equivalent Allowable Emissions: 64.1 lb/hour 108.65 tons/year | | | |
| 5. | Method of Compliance: Stack test and CEMS 24 hours block average | | | | | |
| 6. | Allowable Emissions Comment (Description of Operating Method): Natural gas firing for 3390 hr/yr. | | | | | |

Allowable Emissions 2 of 2

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | Future Effective Date of Allowable Emissions: 01-JUL-02 |
|----|---|----|---|
| 3. | Allowable Emissions and Units: 42 PARTS PER MILLION DRY GAS VOLUME @ 15% O2 | 4. | Equivalent Allowable Emissions: 351 lb/hour 175.5 tons/year |

- 5. Method of Compliance:
 Stack test and CEMS on the basis of 3 hours average.
- 6. Allowable Emissions Comment (Description of Operating Method): Fuel oil firing. Limited to 1000 hr/yr.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: PB - Lead - Total (elemental lead and lead compounds) | 2. Total Percent Efficiency of Control: | | | | | |
|----------|--|---|----------|------------------------------|--------------------|--|--|
| 3. | Potential Emissions: lb/hour to | ons/year | 4. Lin | nthetically nited? Yes | No | | |
| 5. | 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | | | | |
| 6. | Emission Factor: Reference: | | | 7. Emiss | sions Method Code: | | |
| <u> </u> | | I D. 1. | | | | | |
| 8.a. | . Baseline Actual Emissions (if required): tons/year | 8.b. Baselir From: | 1e 24-mc | onth Period To | | | |
| 9.a. | . Projected Actual Emissions (if required): tons/year | 9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years | | | | | |
| 10. | Calculation of Emissions: | | | | | | |
| 11. | 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: | | | | | | |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.

Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: PM - Particulate Matter - Total | 2. Total Percent Efficiency of Control: | | | | | |
|------|---|---|--------------|------------|------|---|--|
| 3. | Potential Emissions: 17 lb/hour 20.45 to | ons/year | 4. | Syn Lim | ited | • | |
| 5. | Range of Estimated Fugitive Emissions (as app to to | e Emissions (as applicable): to tons/year | | | | | |
| 6. | Emission Factor: Reference: | | | | 7. | Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST- CASE ALLOWABLE EMISSION. | |
| 8.a. | . Baseline Actual Emissions (if required): tons/year | 8.b. Baselir From: | ne 24 | -mo | nth | Period: To: | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projecte ☐ 5 y | ed M ears | | orin | ng Period: ☐ 10 years | |
| 10. | Calculation of Emissions: | | | | | | |
| 11. | 1. Pollutant Potential, Fugitive, and Actual Emissions Comment: Ton/year potential based on 2390 hr/yr on gas and 1000 hr/yr on oil, with emission factors of 10 (gas) and 17 lb/hr (oil). See attached potential emissions calculation sheet. | | | | | | |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -**ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | Puture Effective Date of Allowable Emissions: | | | | | |
|----|---|----------|---|-----------------|--|--|--|--|
| 3. | Allowable Emissions and Units: 10 POUNDS/HOUR | 4. | • | | | | | |
| 5. | Method of Compliance: | <u> </u> | 10 lb/hour | 16.95 tons/year | | | | |
| | VE serve as surrogate. | | | | | | | |
| 6. | . Allowable Emissions Comment (Description of Operating Method): | | | | | | | |
| | Natural gas firing for 3390 hr/yr. | | | | | | | |

| <u>Allo</u> | owable Emissions Allowable Emissions 2 of 2 | | | | | | | |
|-------------|---|---|---|--|--|--|--|--|
| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | Future Effective Date of Allowable Emissions: | | | | | |
| 3. | Allowable Emissions and Units: 17 POUNDS/HOUR | 4. Equivalent Allowable Emissions: 17 lb/hour 8.5 tons/ye | | | | | | |
| 5. | Method of Compliance: VE serve as surrogate | | | | | | | |
| 6. | Allowable Emissions Comment (Description o Fuel oil firing. Limited to 1000 hr/yr. | f Op | erating Method): | | | | | |

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air

operation permit.

| 1. | Pollutant Emitted: PM10 - Particulate Matter - PM10 | 2. Total Percent Efficiency of Control: | | | | | | |
|------|---|--|------|-----|-----------------------|---|--|--|
| 3. | Potential Emissions: 17 lb/hour 20.45 to | ons/year | 4. | Lin | nthen nited Yes | | | |
| 5. | Range of Estimated Fugitive Emissions (as app to to | Fugitive Emissions (as applicable): to tons/year | | | | | | |
| 6. | Emission Factor: Reference: | · | | | 7. | Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST- CASE ALLOWABLE EMISSION. | | |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baselin From: | ne 2 | 4-m | onth | Period: To: | | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projecto ☐ 5 y | ed N | | torin | ng Period: | | |
| 10. | Calculation of Emissions: | | | | | | | |
| 11. | 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Ton/year potential based on 2390 hr/yr on gas and 1000 hr/yr on oil, with emission factors of 10 (gas) and 17 lb/hr (oil). See attached potential emissions calculation sheet. | | | | | | | |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -**ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 2

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | Future Effective Date of Allowable Emissions: 01-JUL-02 | | | | |
|----|---|-------|---|--|--|--|--|
| 3. | Allowable Emissions and Units: 17 POUNDS/HOUR | 4. | 4. Equivalent Allowable Emissions: 17 lb/hour 8.5 tons/ | | | | |
| 5. | Method of Compliance: VE serve as surrogate | | | | | | |
| 6. | Allowable Emissions Comment (Description of Fuel oil firing. Limited to 1000 hr/yr. | of Op | perating Method): | | | | |

| Allowable Emissions 2 of 2 | | | | | | | | | |
|----------------------------|---|---|--|--|--|--|--|--|--|
| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | 2. Future Effective Date of Allowable Emissions: 01-JUL-02 | | | | | | |
| 3. | Allowable Emissions and Units: 10 POUNDS/HOUR | 4. Equivalent Allowable Emissions: 10 lb/hour 16.95 tons/year | | | | | | | |
| 5. | Method of Compliance: VE serve as surrogate | | • | | | | | | |
| 6. | Allowable Emissions Comment (Description o Natural gas firing for 3390 hr/yr. | f Op | erating Method): | | | | | | |

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air

operation permit.

| 1. | Pollutant Emitted: SAM - Sulfuric Acid Mist | 2. Total Percent Efficiency of Control: | | | | | | |
|-------------------------------|--|---|----------|----------------|--------------|--------------------|--|--|
| 3. | Potential Emissions: | ons/year | 4. Lin | nthet nited | | □ No | | |
| 5. | 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | | | | | |
| 6. | Emission Factor: | | ë | 7. | Emiss | sions Method Code: | | |
| | Reference: | | | | | | | |
| 8.a. | . Baseline Actual Emissions (if required): tons/year | 8.b. Baselir From: | ne 24-mo | onth | Period To | | | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 years | | | | | | |
| 10. Calculation of Emissions: | | | | | | | | |
| 11. | 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: | | | | | | | |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: SO2 - Sulfur Dioxide | 2. Total Percent Efficiency of Control: | | | | | |
|------|---|---|------|-----|-------|----------------------------------|---|
| 3. | Potential Emissions: 98.7 lb/hour 55.33 to | ons/year | 4. | | nited | | √ No |
| 5. | Range of Estimated Fugitive Emissions (as app to t | olicable): ons/year | | | | | |
| 6. | Emission Factor: Reference: | | | | 7. | (0) EQUI ALLO EMIS CASE | ions Method Code: QUAL TO VALENT DWABLE SION/WORST- ALLOWABLE SION. |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baselin From: | ne 2 | 4-m | onth | Period To | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projected Monitoring Period: ☐ 5 years ☐ 10 | | | | | od: 10 years |
| 10. | Calculation of Emissions: | | | | | | |
| 11. | 11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Ton/year potential based on 2390 hr/yr on gas and 1000 hr/yr on oil, with emission factors of 5 (gas) and 98.7 lb/hr (oil). See attached potential emissions calculation sheet. | | | | | | |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -**ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 2

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | 2. Future Effective Date of Allowable Emissions: 01-JUL-02 | | | | | |
|----|---|------|--|--|--|--|--|--|
| 3. | Allowable Emissions and Units: .05 PERCENT SULFUR IN FUEL | 4. | 4. Equivalent Allowable Emissions: 98.7 lb/hour 49.35 tons/y | | | | | |
| 5. | Method of Compliance: Fuel analysis | | | | | | | |
| 6. | Allowable Emissions Comment (Description o Fuel oil firing. Limited to 1000 hr/yr. | f Op | erating Method): | | | | | |

| Allo | wable Emissions Allowable Emissions 2 of 2 | <u> </u> |
|------|---|---|
| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. Future Effective Date of Allowable Emissions: 01-JUL-02 |
| 3. | Allowable Emissions and Units: 1 OTHER (SPECIFY IN COMMENT) | 4. Equivalent Allowable Emissions: 5 lb/hour 8.48 tons/year |
| 5. | Method of Compliance: Fuel Analysis | |
| 6. | Allowable Emissions Comment (Description o Allowable unit: 1grain sulfur per 100scf. Natur | |

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.

Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: VOC - Volatile Organic Compounds | 2. Total P | erce | nt E | ffici | ency o | f Control: |
|------|--|------------------------|-------|------|----------------------|----------------------------------|---|
| 3. | Potential Emissions: 16.2 lb/hour 11.45 to | ons/year | 4. | Lin | thet nited Yes | - | √ No |
| 5. | Range of Estimated Fugitive Emissions (as app to t | olicable): ons/year | | | | | |
| 6. | Emission Factor: Reference: | | | | 7. | (0) EQUI ALLO EMIS CASE | sions Method Code: QUAL TO VALENT DWABLE SION/WORST- E ALLOWABLE ISION. |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baselir From: | ne 24 | 1-mc | nth | Period To | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projecte ☐ 5 y | ed M | | orin | g Perio | od: 10 years |
| 10. | Calculation of Emissions: | | | | | | |
| 11. | Pollutant Potential, Fugitive, and Actual Emissi Ton/year potential based on 2390 hr/yr on gas (gas) and 16.2 lb/hr (oil). See attached potential | and 1000 hr/y | yr oi | | | | sion factors of 2.8 |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions 1 of 2

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. | Future Effective Date of Allowable Emissions: 01-JUL-02 |
|----|--|----|--|
| 3. | Allowable Emissions and Units: 1.4 PARTS PER MILLION DRY GAS VOLUME | 4. | Equivalent Allowable Emissions: 2.8 lb/hour 4.75 tons/year |
| 5. | Method of Compliance: Initial Test | | |
| 6. | Allowable Emissions Comment (Description o Initial test only. Natural gas firing for 3390 hr/ | - | erating Method): |

Allowable Emissions 2 of 2

| 1. | Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation | 2. Future Effective Date of Allowable Emissions: 01-JUL-02 | | |
|----|---|--|---|-----------------------|
| 3. | Allowable Emissions and Units: 7 OTHER (SPECIFY IN COMMENT) | 4. | Equivalent Allowable Emissi 16.2 lb/hour | ons: 8.1 tons/year |
| 5. | Method of Compliance: Initial Test | | | |

6. Allowable Emissions Comment (Description of Operating Method): Unit: ppmvw. Fuel oil firing. Limited to 1000 hr/yr. Initial test only.

G. VISIBLE EMISSIONS INFORMATION
Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

| <u>Visi</u> | ble Emissions Limitation: Visible Emissions | Lim | itation 1 of 1 | | |
|-------------|---|-------|--------------------------|----------------------|---|
| 1. | Visible Emissions Subtype: VE10 - VISIBLE EMISSIONS - 10% NORMAL OPACITY | 2. | Basis for Allowa ✓ Rule | ble Opacity: Cother | |
| 3. | Allowable Opacity: Normal Conditions: 10% Excep Maximum Period of Excess Opacity Allowed: | otion | al Conditions: | % min/hour | |
| 4. | Method of Compliance: EPA METHOD 9 | | | | |
| 5. | Visible Emissions Comment: (VE limit for gas or oil). VE surrogate for PM/ | PM1 | 0 emissions. | | - |

H. CONTINUOUS MONITOR INFORMATION

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1 of 3

| 1. | Parameter Code: | 2. Pollutant(s): |
|-----------------------|--|--|
| | EM - EMISSION | NOX |
| 3. | CMS Requirement: | ☐ Rule ☐ Other |
| 4. | Monitor Information | |
| | Manufacturer: THERMO ENVIRONMEN | NTAL |
| | Model 42C | Serial 42CHL71726-3 |
| | Number: 42C | Number: 42CIL/1720-3 |
| 5. | Installation Date: | 6. Performance Specification Test Date |
| | 18-MAY-02 | 18-MAY-02 |
| | C | |
| 7. | Continuous Monitor Comment: | |
| 7. | NOX monitor | |
| 7. | | |
| 7. | NOX monitor | |
| | NOX monitor Status: Active | Monitor 2 of 3 |
| Con | NOX monitor Status: Active | Monitor 2 of 3 2. Pollutant(s): |
| on | NOX monitor Status: Active atinuous Monitoring System: Continuous | |
| <u>Con</u> 1 . | NOX monitor Status: Active atinuous Monitoring System: Continuous Parameter Code: | |
| Con 1. | NOX monitor Status: Active atinuous Monitoring System: Continuous Parameter Code: O2 - Oxygen | 2. Pollutant(s): |
| 7. Con 1. 3. | NOX monitor Status: Active Attinuous Monitoring System: Continuous Parameter Code: O2 - Oxygen CMS Requirement: | 2. Pollutant(s): |
| Con 1. | NOX monitor Status: Active Atinuous Monitoring System: Continuous Parameter Code: O2 - Oxygen CMS Requirement: Monitor Information Manufacturer: SERVOMEX Model 1400 | 2. Pollutant(s): |
| Con 1. | NOX monitor Status: Active Atinuous Monitoring System: Continuous Parameter Code: O2 - Oxygen CMS Requirement: Monitor Information | 2. Pollutant(s): |
| Con 1. 3. | NOX monitor Status: Active Atinuous Monitoring System: Continuous Parameter Code: O2 - Oxygen CMS Requirement: Monitor Information Manufacturer: SERVOMEX Model 1400 | 2. Pollutant(s): \[\sum_{\text{Rule}} \tag{Other} \] Serial \(\frac{1420}{3133} \) |
| Con 1. | NOX monitor Status: Active Atinuous Monitoring System: Continuous Parameter Code: O2 - Oxygen CMS Requirement: Monitor Information Manufacturer: SERVOMEX Model Number: | 2. Pollutant(s): C Rule C Other Serial 1420/3133 |

Status: Active

| Cor | tinuous Monitoring System: Continuous M | onite | tor 3 of 3 | |
|-----|---|-------|--------------------------------------|--|
| i. | Parameter Code: FLOW - Volumetric flow rate | 2. | Pollutant(s): | |
| 3. | CMS Requirement: | Г | Rule | |
| 4. | Monitor Information Manufacturer: MICRO MOTION Model Number: DS300S255SU | | Serial Number: 246426 | |
| 5. | Installation Date: 01-MAY-02 | 6. | Performance Specification Test Date: | |
| 7. | Continuous Monitor Comment: Oil Flow | | | |
| | Status: Active | • | | |

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I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

| 1. | Process Flow Diagram (Required for all permit applications, exception applications if this information was submitted to the depart years and would not be altered as a result of the revision being sou | rtment within the previous five |
|----------|---|---|
| | ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| 2. | Fuel Analysis or Specification (Required for all permit application permit revision applications if this information was submitted to the previous five years and would not be altered as a result of the revision. | ne department within the sion being sought) |
| <u> </u> | ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| 3. | Detailed Description of Control Equipment (Required for all perm air operation permit revision applications if this information was swithin the previous five years and would not be altered as a result of Applicable Previously Submitted, Date: | ubmitted to the department |
| 4. | Procedures for Startup and Shutdown (Required for all operation p V air operation permit revision applications if this information was within the previous five years and would not be altered as a result of Applicable Previously Submitted, Date: | s submitted to the department |
| 5. | Operation and Maintenance Plan (Required for all permit application permit revision applications if this information was submitted to the previous five years and would not be altered as a result of the revisional Previously Submitted, Date: | e department within the |
| 6. | Compliance Demonstration Reports/Records | |
| | ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| | To Be Submitted, Date (if known): | |
| | Previously Submitted Test Date(s)/Pollutants Tested: | |
| | To be Submitted Test Date(s)/Pollutants Tested: | |
| | Note: For FESOP applications, all required compliance demonstrate submitted at the time of application. For Title V air operation permits compliance demonstration reports/records must be submitted at the compliance plan must be submitted at the time of application. | it applications, all required |
| 7. | Other Information Required by Rule or Statute | |
| | ☐ Applicable | T Attachment |

| Ad | litional Requirements for Title V Air Operation Permit Applications | |
|----|---|--------------|
| 1. | Identification of Applicable Requirements | |
| | ☐ Applicable | ☐ Attachment |
| 2. | Compliance Assurance Monitoring Plan | |
| | ☐ Applicable | ☐ Attachment |
| 3. | Alternative Methods of Operation | |
| | ☐ Applicable | ☐ Attachment |
| 4. | Alternative Modes of Operation (Emissions Trading) | |
| | ☐ Applicable | ☐ Attachment |
| 5. | Acid Rain Part Application | |
| | Certificate of Representation (EPA Form No. 7610-1) | |
| | ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| | Acid Rain Part (Form No. 62-210.900(1)(a)) | |
| | ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| | Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) | |
| | ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| | New Unit Exemption (Form No. 62-210.900(1)(a)2.) | |
| | ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| | Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) | |
| | ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| | Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) | |
| | ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| | Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) | |
| | ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |

| <u>litional Requirements for Air Construction Permit Applicati</u> | <u>ions</u> |
|--|---|
| Control Technology Review and Analysis (Rules 62-212.400(1 CFR 63.43(d) and (e)) | 10) and 62-212.500(7), F.A.C.; 40 |
| ☐ Applicable | ☐ Attachment |
| Good Engineering Practice Stack Height Analysis (Rule 62-21 212.500(4)(f), F.A.C.) | 2.400(4)(d), F.A.C., and Rule 62- |
| ☐ Applicable | ☐ Attachment |
| Description of Stack Sampling Facilities (Required for propose only) | ed new stack sampling facilities |
| ☐ Applicable | ☐ Attachment |
| | |
| ☐ Applicable | ☐ Attachment |
| Note: Provide any other information related to the emissions un Information Section that is not elsewhere provided in the applicant that you, the applicant, believe may be helpful. | |
| litional Requirements Comment | |
| | Control Technology Review and Analysis (Rules 62-212.400(CFR 63.43(d) and (e)) Applicable Good Engineering Practice Stack Height Analysis (Rule 62-21 212.500(4)(f), F.A.C.) Applicable Description of Stack Sampling Facilities (Required for propose only) Applicable Mer Information Regarding this Emissions Unit Other Emissions Unit Information Applicable Note: Provide any other information related to the emissions u Information Section that is not elsewhere provided in the application. |

III. EMISSIONS UNIT INFORMATION A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

| THI | <u>: v Aii Operation Permit Emissio</u> | <u> Jus Chit Classifica</u> | rrion | | | | |
|------------|---|-------------------------------------|---|---------------------------------|--|--|--|
| 1. | (Check one, if applying for an initi item if applying for an air construc | | | on permit. Skip this | | | |
| | 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. | | | | | | |
| <u>lmi</u> | ssions Unit Description and Statu | S | | | | | |
| 1. | Type of Emissions Unit Addressed | l in this Section: (C | 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. | | | | | | |
| | This Emissions Unit Informati process or production units and | | | | | | |
| 2. | Description of Emissions Unit Add 1.5 million gallon fuel oil storage t | | ion: | | | | |
| 3. | Emissions Unit Identification Num | iber: 4 | | | | | |
| 4. | Emissions Unit Status Code: A 5. Commence Construction Date: | 6. Initial Startup Date: 01-MAY- 02 | 7. Emissions Unit Major Group SIC Code: 49 | 8. Acid Rain Unit? ☐ Yes ☐ No | | | |
| €. | Package Unit Manufacturer: | M | lodel Number: | | | | |
| l 0. | Generator Nameplate Rating: | MW | | | | | |
| 11. | Emissions Unit Comment: Only subject to the recordkeeping r which is not a 'Unit Specific Appli | | | | | | |

 Emissions Unit Control Equipment

 Code
 Equipment
 Description

 95
 WHITE PAINT
 Tank color is white

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

| 1. | Maximum Process or Throughput Rate: | | | | |
|----|--|-------------------------|------------------------------|--|--|
| 2. | Maximum Production Rate: 1500000 GAL | LONS | | | |
| 3. | Maximum Heat Input Rate: million Btu/hr | | | | |
| 4. | Maximum Incineration Rate: | pounds/hr tons/day | | | |
| 5. | Requested Maximum Operating Schedule: | hours/day weeks/year | days/week 8760 hours/year | | |
| 6. | Operating Capacity/Schedule Comment: No. 2 fuel oil above-ground storage tank. | | | | |

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type Identification of Point on Plot Plan or Flow Emission Point Type Code: Diagram: 4 - No true emission point 3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Discharge Type Code: Stack Height: 7. Exit Diameter: (F) FUGITIVE EMISSIONS, NO STACK feet feet **EXISTS** Actual Volumetric Flow 9. 8. Exit Temperature: 10. Water Vapor: Rate: ٥F % acfm 11. Maximum Dry Standard Flow Rate: 12. Nonstack Emission Point Height: dscfm 30 feet 13. Emission Point UTM Coordinates... 14. Emission Point Latitude/Longitude... Zone: East (km): Latitude:

Longitude:

North (km):

15. Emission Point Comment:

D. SEGMENT (PROCESS/FUEL) INFORMATION

| Seg | ment Description and Rate: | Segment 1 of 2 | , | | |
|------|---|--------------------|---|------|-----------------------------------|
| 1. | Segment Description (Proces 1.5 MMGal No. 2 fuel oil sto | | ing Loss) | | |
| 2. | Source Classification Code (39090003 | SCC): | 3. SCC Units: 1000 Gallon Storage Cap | | ars Distillate Oil (No. 2) |
| 4. | Maximum Hourly Rate: | 5. Maximum A | Annual Rate: | 6. | Estimated Annual Activity Factor: |
| 7. | Maximum % Sulfur: .05 | 8. Maximum % | 6 Ash: | 9. | Million Btu per SCC Unit: |
| 10. | Segment Comment: Subject to 40 CFR 60.116b(b |). See attached ca | lculation sheet and | d TA | ANKS result. |
| | Is this a valid segment? Yes | | | | |
| Segi | ment Description and Rate: | Segment 2 of 2 | | | |
| 1. | Segment Description (Proces 1.5 MMgal No. 2 fuel oil stor | | g loss) | | |
| 2. | Source Classification Code (\$39090004 | SCC): | 3. SCC Units: 1000 Gallon Throughput | s Di | stillate Oil (No. 2) |
| 4. | Maximum Hourly Rate: | 5. Maximum A | nnual Rate: | 6. | Estimated Annual Activity Factor: |
| 7. | Maximum % Sulfur: | 8. Maximum % | 6 Ash: | 9. | Million Btu per SCC Unit: |

Subject to 40 CFR 60.116b(b). See attached calculation sheet and TANKS result.

10. Segment Comment:

Is this a valid segment? Yes

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

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|-------------------------------|------------------------------|-------------|--------------------------------|--------|
| 1. Pollutant Emitted | | Device Code | 4. Pollutant · Regulatory Code | Valid? |
| HAPS | WHITE PAINT | | | Yes |
| VOC | WHITE PAINT | " | NS | Yes |

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.

Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: HAPS - Total Hazardous Air Pollutants | 2. Total P | ercent E | ffici | ency o | f Control: |
|------|--|------------------------|--------------|-----------------------|--------------|---------------------------------------|
| 3. | Potential Emissions: .16 lb/hour .77 to | ons/year | 4. Lin | nthet nited Yes | | ✓ No |
| 5. | Range of Estimated Fugitive Emissions (as app to to | olicable): ons/year | _ | | | |
| 6. | Emission Factor: Reference: | | | 7. | Emiss | sions Method Code: |
| | | 01 5 1 | | | | · · · · · · · · · · · · · · · · · · · |
| 8.a. | Baseline Actual Emissions (if required): tons/year | 8.b. Baselir From: | ne 24-mo | onth | Period To | |
| 9.a. | Projected Actual Emissions (if required): tons/year | 9.b. Projecto | ed Monitears | torin | g Perio | od: 10 years |
| 10. | Calculation of Emissions: Potential Emissions estimated to be equal to podetermined through EPA's TANK 4.0.9d softw | | emission | ns. V | OC er | missions |
| 11. | Pollutant Potential, Fugitive, and Actual Emissi | ons Commer | nt: | | | |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit.

Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

| 1. | Pollutant Emitted: VOC - Volatile Organic Compounds | 2. Total P | 'erce | nt E | ffici | ency of | Control: |
|---------|--|------------------------|-------|-------|----------------------|---------|-------------------|
| 3. | Potential Emissions: .16 lb/hour .77 to | ons/year | 4. | Lin | thet nited Yes | | √ No |
| 5. | Range of Estimated Fugitive Emissions (as app to to | olicable): ons/year | | , | | | |
| 6. | Emission Factor: | | | | 7. | Emissi | ions Method Code: |
| | Reference: | | | | | | |
| 8.a. | Baseline Actual Emissions (if required): | 8.b. Baselin | ne 24 | l-mo | nth | Period: | |
| <u></u> | tons/year | From: | | | | To: | |
| 9.a. | Projected Actual Emissions (if required): | 9.b. Projecte | ed M | lonit | orin | g Perio | d: , |
| | tons/year | Г 5 y | ears | | | Г | 10 years |
| I | Calculation of Emissions: EPA's TANKS 4.0.9d | | | | | | |
| ſ | Pollutant Potential, Fugitive, and Actual Emission See attached calculation sheet and TANKS resu | | nt: | | | | |

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

G. VISIBLE EMISSIONS INFORMATION
Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

No Visible Emissions information submitted.

H. CONTINUOUS MONITOR INFORMATION Complete if this emissions unit is or would be subject to continuous monitoring.

No Continuous Monitoring information submitted.

I. EMISSIONS UNIT ADDITIONAL INFORMATION

<u>Additional Requirements for All Applications, Except as Otherwise Stated</u>

| 1. | Process Flow Diagram (Required for all permit applications, except Ti revision applications if this information was submitted to the departme years and would not be altered as a result of the revision being sought) Applicable Previously Submitted, Date: | ent within th | |
|----|---|-------------------------------|---------------|
| 2. | Fuel Analysis or Specification (Required for all permit applications, expermit revision applications if this information was submitted to the deprevious five years and would not be altered as a result of the revision Applicable Previously Submitted, Date: | epartment w being sough | vithin the |
| 3. | Detailed Description of Control Equipment (Required for all permit ap air operation permit revision applications if this information was subm within the previous five years and would not be altered as a result of the Applicable Previously Submitted, Date: | itted to the ne revision b | department |
| 4. | Procedures for Startup and Shutdown (Required for all operation perm V air operation permit revision applications if this information was subwithin the previous five years and would not be altered as a result of the Applicable Previously Submitted, Date: | omitted to the revision b | he department |
| 5. | Operation and Maintenance Plan (Required for all permit applications, permit revision applications if this information was submitted to the de previous five years and would not be altered as a result of the revision Applicable Previously Submitted, Date: | partment w being sough | vithin the |
| 6. | Compliance Demonstration Reports/Records Applicable Previously Submitted, Date: To Be Submitted, Date (if known): Previously Submitted Test Date(s)/Pollutants Tested: To be Submitted Test Date(s)/Pollutants Tested: Note: For FESOP applications, all required compliance demonstration submitted at the time of application. For Title V air operation permit application compliance demonstration reports/records must be submitted at the time compliance plan must be submitted at the time of application. | records/rep | all required |
| 7. | Other Information Required by Rule or Statute Applicable | | Attachment |

| Additional Requirements for Title V Air Operation Permit Applications | |
|---|--------------|
| 1. Identification of Applicable Requirements | |
| ☐ Applicable | ☐ Attachment |
| 2. Compliance Assurance Monitoring Plan | |
| ☐ Applicable | ☐ Attachment |
| 3. Alternative Methods of Operation | |
| ☐ Applicable | ☐ Attachment |
| 4. Alternative Modes of Operation (Emissions Trading) | |
| ☐ Applicable | ☐ Attachment |
| 5. Acid Rain Part Application | |
| Certificate of Representation (EPA Form No. 7610-1) | |
| ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| Acid Rain Part (Form No. 62-210.900(1)(a)) | |
| ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) | |
| ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| New Unit Exemption (Form No. 62-210.900(1)(a)2.) | |
| ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) | |
| ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) | |
| ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |
| Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) | |
| ☐ Applicable ☐ Previously Submitted, Date: | ☐ Attachment |

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| Ado | itional Requirements for Air Construction Permit Ap | <u>plications</u> | | | |
|------------------|--|---|--|--|--|
| 1. | Control Technology Review and Analysis (Rules 62-212 CFR 63.43(d) and (e)) | 2.400(10) and 62-212.500(7), F.A.C.; 40 | | | |
| | ☐ Applicable | ☐ Attachment | | | |
| 2. | Good Engineering Practice Stack Height Analysis (Rule 212.500(4)(f), F.A.C.) | 62-212.400(4)(d), F.A.C., and Rule 62- | | | |
| | ☐ Applicable | ☐ Attachment | | | |
| 3. | 3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) | | | | |
| | ☐ Applicable | ☐ Attachment | | | |
| Oth 1. | Other Emissions Unit Information Applicable Note: Provide any other information related to the emiss | | | | |
| | Information Section that is not elsewhere provided in the that you, the applicant, believe may be helpful. | e application, not otherwise required and | | | |
| Add | itional Requirements Comment | ····· | | | |
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