# I. APPLICATION INFORMATION

Air Construction Permit – Use this form to apply for an air construction permit:

* For any required purpose at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air operation permit;
* For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment new source review, or maximum achievable control technology (MACT);
* To assume a restriction on the potential emissions of one or more pollutants to escape a requirement such as PSD review, nonattainment new source review, MACT, or Title V; or
* To establish, revise, or renew a plantwide applicability limit (PAL).

Air Operation Permit – Use this form to apply for:

* An initial federally enforceable state air operation permit (FESOP); or
* An initial, revised, or renewal Title V air operation permit.

To ensure accuracy, please see form instructions.

**Identification of Facility**

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| --- | --- |
| 1. Facility Owner/Company Name: **Florida Power Development, LLC** | |
| 2. Site Name: **Brooksville Power Plant** | |
| 3. Facility Identification Number: **0530380** | |
| 4. Facility Location...  Street Address or Other Locator: **10311 Cement Plant Road**  City: **Brooksville** County: **Hernando** Zip Code: **34601** | |
| 5. Relocatable Facility?  Yes **X** No | 6. Existing Title V Permitted Facility?  **X** Yes No |

Application Contact

|  |
| --- |
| 1. Application Contact Name: **Max Lee, Ph.D., P.E.** |
| 2. Application Contact Mailing Address...  Organization/Firm: **Koogler and Associates, Inc.**  Street Address: **4014 NW 13th Street**  City: **Gainesville** State: **Florida** Zip Code: **32609** |
| 3. Application Contact Telephone Numbers...  Telephone: ( **352** ) **377** - **5822** ext. **13** Fax: ( **352** ) **377** - **7158** |
| 4. Application Contact E-mail Address: **mlee@kooglerassociates.com** |

**Application Processing Information (DEP Use)**

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

**Purpose of Application**

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| --- |
| This application for air permit is being submitted to obtain: (Check one)  Air Construction Permit  Air construction permit.  Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL).  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**  **X** Initial Title V air operation permit.  Title V air operation permit revision.  Title V air operation permit renewal.  Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.  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  (Concurrent 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. |

Application Comment

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| --- |
| **This application is for the Initial Title V permit. The original air construction permit for the facility was 0530038-001-AC. Information for controls of units that have been permitted under 0530021 and were in operation under the coal-fired unit (EU003 and EU004) is referenced to FDEP file .** |

**Scope of Application**

|  |  |  |  |
| --- | --- | --- | --- |
| **Emissions Unit ID**  **Number** | **Description of Emissions Unit** | **Air**  **Permit Type** | **Air Permit Processing Fee** |
| 001 | Biomass Handling, Storage and Processing | AV |  |
| 002 | Woody Biomass-Fueled Grate-Suspension Boiler | AV |  |
| 003 | Ash and Handling, Storage and Shipment | AV |  |
| 004 | IDSIS Sorbent Handling and Storage | AV |  |
| 005 | Emergency Equipment | AV |  |
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Application Processing Fee

**Check one:** Attached - Amount: $ X Not Applicable

Owner/Authorized Representative Statement

Complete if applying for an air construction permit or an initial FESOP.

|  |
| --- |
| 1. Owner/Authorized Representative Name : |
| 2. Owner/Authorized Representative Mailing Address...  Organization/Firm:  Street Address:  City: State: Zip Code: |
| 3. Owner/Authorized Representative Telephone Numbers...  Telephone: ( ) - ext. Fax: ( ) - |
| 4. Owner/Authorized Representative E-mail Address: |
| 5. Owner/Authorized Representative Statement:  *I, the undersigned, am the owner or authorized representative of the corporation, partnership, or other legal entity submitting this air permit application. To the best of my knowledge, the statements made in this application are true, accurate and complete, and any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department.*    Signature Date |

Application Responsible Official Certification

Complete if applying for an initial, revised, or renewal Title V air operation permit or concurrent processing of an air construction permit and revised or renewal Title V air operation permit. If there are multiple responsible officials, the “application responsible official” need not be the “primary responsible official.”

|  |
| --- |
| 1. Application Responsible Official Name: **Terry Woodard** |
| 2. Application Responsible Official Qualification (Check one or more of the following options, as 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 or CAIR source. |
| 3. Application Responsible Official Mailing Address...  Organization/Firm: **Florida Power Development, LLC**  Street Address: **10311 Cement Plant Road**  City: **Brooksville** State: **FL** Zip Code: **34601** |
| 4. Application Responsible Official Telephone Numbers...  Telephone: (**352) 799-7881** ext. Fax: () |
| 5. Application Responsible Official E-mail Address: **wwoodard@deltapowerservices.com** |
| 6. Application Responsible Official Certification:  I, the undersigned, 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.    Signature Date |

**Professional Engineer Certification** (415 ILCS 5/39.2)

|  |
| --- |
| 1. Professional Engineer Name: **Max Lee, Ph.D., P.E.**  Registration Number: **58091** |
| 2. Professional Engineer Mailing Address...  Organization/Firm: **Koogler and Associates, Inc.**  Street Address: **4014 NW 13th Street**  City: **Gainesville** State: **Florida** Zip Code: **32609** |
| 3. Professional Engineer Telephone Numbers...  Telephone: ( **352** ) **377** - **5822** ext. **13** Fax: ( **352** ) **377** - **7158** |
| 4. Professional Engineer E-mail Address: **mlee@kooglerassociates.com** |
| 5. Professional Engineer Statement:  *I, the undersigned, hereby certify, except as particularly noted herein\*, that:*  *(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and*  *(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.*  *(3) If the purpose of this application is to obtain a Title V air operation permit (check here*   *, if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.*  *(4) If the purpose of this application is to obtain an air construction permit (check here*   *, if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here*   *, if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.*  *(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here*   *, if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.*    Signature Date  (seal) |

\* Attach any exception to certification statement.

# II. FACILITY INFORMATION

## A. GENERAL FACILITY INFORMATION

**Facility Location and Type**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Facility UTM Coordinates...  Zone **17** **360.0** East (km)  **3162.5** North (km) | | 2. Facility Latitude/Longitude...  Latitude (DD/MM/SS)  Longitude (DD/MM/SS) | |
| 3. Governmental  Facility Code: **0** | 4. Facility Status  Code: **A** | 5. Facility Major  Group SIC Code:  **32** | 6. Facility SIC(s):  **3241** |
| 7. Facility Comment : | | | | |

Facility Contact

|  |
| --- |
| 1. Facility Contact Name: **Larry Roberts** |
| 2. Facility Contact Mailing Address...  Organization/Firm: **Florida Power Development, LLC**  Street Address: **10311 Cement Plant Road**  City: **Brooksville** State: **FL** Zip Code: **34601** |
| 3. Facility Contact Telephone Numbers:  Telephone: (**352**) **799-7881** ext. Fax: () |
| 4. Facility Contact E-mail Address: **lroberts@deltapowerservices.com** |

**Facility Primary Responsible Official**

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

|  |
| --- |
| 1. Facility Primary Responsible Official Name: |
| 2. Facility Primary Responsible Official Mailing Address...  Organization/Firm:  Street Address:  City: State: Zip Code: |
| 3. Facility Primary Responsible Official Telephone Numbers...  Telephone: ( ) - ext. Fax: ( ) - |
| 4. Facility Primary Responsible Official E-mail Address: |

## Facility Regulatory Classifications

Check all that would apply *following* completion of all projects 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.”

|  |
| --- |
| 1. Small Business Stationary Source Unknown |
| 2. Synthetic Non-Title V Source |
| 3. **X** Title V Source |
| 4. **X** Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs) |
| 5. Synthetic Minor Source of Air Pollutants, Other than HAPs |
| 6. **X** 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) |
| 10. **X** One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63) |
| 11. Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5)) |
| 12. Facility Regulatory Classifications Comment: |

**List of Pollutants Emitted by Facility**

|  |  |  |
| --- | --- | --- |
| 1. Pollutant Emitted | 2. Pollutant Classification | 3. Emissions Cap  [Y or N]? |
| **CO** | **A** | **N** |
| **NOx** | **A** | **N** |
| **PM/PM10** | **A** | **N** |
| **PM2.5** | **B** | **N** |
| **SO2** | **A** | **N** |
| **VOC** | **B** | **N** |
| **HAPs** | **A** | **N** |
| **SAM** | **B** | **N** |
| **Hg** | **B** | **N** |
| **HCl** | **A** | **N** |
| **CO2e** | **N/A** |  |
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**B. EMISSIONS CAPS**

**Facility-Wide or Multi-Unit Emissions Caps**

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| --- | --- | --- | --- | --- | --- |
| 1. Pollutant Subject to Emissions Cap | 2. Facility-  Wide Cap  [Y or N]?  (all units) | 3. Emissions Unit ID’s Under Cap  (if not all units) | 4. Hourly Cap  (lb/hr) | 5. Annual  Cap  (ton/yr) | 6. Basis for Emissions Cap |
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| 7. Facility-Wide or Multi-Unit Emissions Cap Comment: | | | | | |

## C. FACILITY ADDITIONAL INFORMATION

**Additional Requirements for All Applications, Except as Otherwise Stated**

|  |
| --- |
| 1. 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)  Attached, Document ID:\_\_\_\_\_\_\_\_\_ **X** Previously Submitted, Date: **Sept 26, 2011** |
| 2. 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)  Attached, Document ID: \_\_\_\_\_\_\_\_\_ **X** Previously Submitted, Date: **Sept 26, 2011** |
| 3. 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)  Attached, Document ID: \_\_\_\_\_\_\_\_\_ **X** Previously Submitted, Date: **Sept 26, 2011** |

**Additional Requirements for Air Construction Permit Applications**

|  |
| --- |
| 1. Area Map Showing Facility Location:  Attached, Document ID: **X** Not Applicable (existing permitted facility) |
| 2. Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL):  Attached, Document ID: |
| 3. Rule Applicability Analysis:  **X** Attached, Document ID: **Appendix 1** |
| 4. List of Exempt Emissions Units:  Attached, Document ID: **X** Not Applicable (no exempt units at facility) |
| 5. Fugitive Emissions Identification:  Attached, Document ID:**\_\_\_\_\_\_\_\_\_\_** X Not Applicable |
| 6. Air Quality Analysis (Rule 62-212.400(7), F.A.C.):  Attached, Document ID: **X** Not Applicable |
| 7. Source Impact Analysis (Rule 62-212.400(5), F.A.C.):  Attached, Document ID: **X** Not Applicable |
| 8. Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.):  Attached, Document ID: **X** Not Applicable |
| 9. Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.):  Attached, Document ID: **X** Not Applicable |
| 10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.):  Attached, Document ID: **X** Not Applicable |

## C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for FESOP Applications

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| 1. List of Exempt Emissions Units:  Attached, Document ID: **X** Not Applicable (no exempt units at facility) |

Additional Requirements for Title V Air Operation Permit Applications

|  |
| --- |
| 1. List of Insignificant Activities: (Required for initial/renewal applications only)  X Attached, Document ID: **Appendix 1**  Not Applicable (revision application) |
| 2. Identification of Applicable Requirements: (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought)  **X** Attached, Document ID: **Appendix 1**  Not Applicable (revision application with no change in applicable requirements) |
| 3. Compliance Report and Plan: (Required for all initial/revision/renewal applications)  Attached, Document ID:  Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing. |
| 4. List of Equipment/Activities Regulated under Title VI: (If applicable, required for initial/renewal applications only)  Attached, Document ID:  Equipment/Activities Onsite but Not Required to be Individually Listed  **X** Not Applicable |
| 5. Verification of Risk Management Plan Submission to EPA: (If applicable, required for initial/renewal applications only)  Attached, Document ID: **X** Not Applicable |
| 6. Requested Changes to Current Title V Air Operation Permit:  Attached, Document ID: **X** Not Applicable |

## C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

**Additional Requirements for Facilities Subject to Acid Rain, CAIR, or Hg Budget Program**

|  |
| --- |
| 1. Acid Rain Program Forms:  Acid Rain Part Application (DEP Form No. 62-210.900(1)(a)):  Attached, Document ID: Previously Submitted, Date:  **X** Not Applicable (not an Acid Rain source)  Phase II NOX Averaging Plan (DEP Form No. 62-210.900(1)(a)1.):  Attached, Document ID: Previously Submitted, Date:  **X** Not Applicable  New Unit Exemption (DEP Form No. 62-210.900(1)(a)2.):  Attached, Document ID: Previously Submitted, Date:  **X** Not Applicable |
| 2. CAIR Part (DEP Form No. 62-210.900(1)(b)):  Attached, Document ID: **X** Previously Submitted, Date: **Sept. 26, 2011**  Not Applicable (not a CAIR source) |

Additional Requirements Comment

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|  |

**EMISSIONS UNIT INFORMATION**

**Section [1] of [5]**

# III. EMISSIONS UNIT INFORMATION

**Title V Air Operation Permit Application -** For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for an initial, revised or renewal Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

**Air Construction Permit or FESOP Application -** For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an “unregulated emissions unit” does not apply. If this is an application for an air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

**Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application –** Where this application is used to apply for both an air construction permit and a revised or renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes, and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

**EMISSIONS UNIT INFORMATION**

**Section [1] of [5]**

## A. GENERAL EMISSIONS UNIT INFORMATION

**Title V Air Operation Permit** **Emissions Unit Classification**

|  |
| --- |
| 1. Regulated or Unregulated Emissions Unit? (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.)  **X** The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.  The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit. |

Emissions Unit Description and Status

|  |  |  |  |
| --- | --- | --- | --- |
| 1. 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).  **X** This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.  This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only. | | | |
| 2. Description of Emissions Unit Addressed in this Section:  **Biomass Handling, Storage and Processing** | | | |
| 3. Emissions Unit Identification Number: **001** | | | |
| 4. Emissions Unit  Status Code:  **A** | 5. Commence  Construction  Date: 2012 | 6. Initial Startup  Date:  10/1/2013 | 7. Emissions Unit Major Group  SIC Code: **49** |
| 8. Federal Program Applicability: (Check all that apply)  Acid Rain Unit  CAIR Unit | | | |
| 9. Package Unit:  Manufacturer: Model Number: | | | |
| 10. Generator Nameplate Rating: | | | |
| 11. Emissions Unit Comment: **This emission unit consists of the biomass receiving and conveyance system, the biomass storage pile and the biomass boiler feed system.** | | | |

**EMISSIONS UNIT INFORMATION**

**Section [1] of [5]**

**Emissions Unit Control Equipment/Method:** Control 1 of 1

|  |
| --- |
| 1. Control Equipment/Method Description:  **Baghouses for sizing screen, magnetic separator and hog mill enclosure Fabric Filter Low Temp (T<180F) - 018** |
| 2. Control Device or Method Code: see above |

**Emissions Unit Control Equipment/Method:** Control of

|  |
| --- |
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

**Emissions Unit Control Equipment/Method:** Control of

|  |
| --- |
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

**Emissions Unit Control Equipment/Method:** Control of

|  |
| --- |
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

**EMISSIONS UNIT INFORMATION**

**Section [1] of [5]**

## 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: |
| 3. Maximum Heat Input Rate: million Btu/hr |
| 4. Maximum Incineration Rate: pounds/hr  tons/day |
| 5. Requested Maximum Operating Schedule:  hours/day days/week  weeks/year **8,760** hours/year |
| 6. Operating Capacity/Schedule Comment:  **The hours of operations of this unit are not limited. There are design specifications of this EU’s equipment.**  **-Truck unloading area designed to receive 150 TPH.**  **-Unloading conveyor system designed for a capacity of 450 TPH.**  **-Design of the covered conveyor of 450 TPH.**  **-Reclaim hoppers designed to process 100 TPH.**  **-Biomass feed system conveyor system to have a design capacity of 200 TPH.**  **-Sizing scree, magnetic separator and hog mill design rate of 200 TPH.  -Conveying system from screen/separator/hog mill to the grate-suspension boiler of 200 TPH.**  **-Boiler day bins designed to provide biomass to grate-suspension boiler rate of 200 TPH.**  **The open storage pile limited to 40,000 tons.** |

**EMISSIONS UNIT INFORMATION**

**Section [1] of [5]**

**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: **see diagram** | | 2. Emission Point Type Code:  3 | |
| 3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:  **See Appendix 1 diagram of emission points layout.** | | | |
| 4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: | | | |
| 5. Discharge Type Code: | 6. Stack Height:  Feet | | 7. Exit Diameter:  feet |
| 8. Exit Temperature:  °F | 9. Actual Volumetric Flow Rate:  Acfm | | 10. Water Vapor:  % |
| 11. Maximum Dry Standard Flow Rate:  Dscfm | | 12. Nonstack Emission Point Height:  Feet | |
| 13. Emission Point UTM Coordinates...  Zone: East (km):  North (km): | | 14. Emission Point Latitude/Longitude…  Latitude (DD/MM/SS)  Longitude (DD/MM/SS) | |
| 15. Emission Point Comment:  **These emission points are a series of emission locations in the biomass yard.** | | | |

**EMISSIONS UNIT INFORMATION**

**Section [1] of [5]**

## D. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment **1** of **2**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Segment Description (Process/Fuel Type):  **Industrial Processes 🡪 Miscellaneous Manufacturing Industries 🡪 Miscellaneous Industrial Processes 🡪 Grinding/Screening** | | | |
| 2. Source Classification Code (SCC):  **3-99-999-99** | | 3. SCC Units:  **Tons** | |
| 4. Maximum Hourly Rate: | 5. Maximum Annual Rate: | | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: | 8. Maximum % Ash: | | 9. Million Btu per SCC Unit: |
| 10. Segment Comment: | | | |

**Segment Description and Rate:** Segment **2** of **2**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Segment Description (Process/Fuel Type):  **Industrial Processes 🡪 Miscellaneous Manufacturing Industries 🡪 Miscellaneous Industrial Processes 🡪 Material Conveyance** | | | |
| 2. Source Classification Code (SCC):  **3-99-999-99** | | 3. SCC Units:  **Tons** | |
| 4. Maximum Hourly Rate: | 5. Maximum Annual Rate: | | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: | 8. Maximum % Ash: | | 9. Million Btu per SCC Unit: |
| 10. Segment Comment: | | | |

**EMISSIONS UNIT INFORMATION**

**Section [1] of [5]**

## 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 |
| **PM** | **018** |  | **EL** |
| **PM10** | **018** |  | **EL** |
| **PM2.5** | **018** |  | **EL** |
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**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [1] of [5] Page [1] of [3]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted: **PM** | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  1.94 lb/hour 8.5 tons/year | | 4. Synthetically Limited?  Yes **X** No | |
| 5. Range of Estimated Fugitive Emissions (as applicable):  to tons/year | | | | | |
| 6. Emission Factor:  Reference: | | | 7. Emissions  Method Code: 5 |
| 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. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions:  **Based on the AC application.** | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment:  **Emissions limitations not applicable for this emission unit. Visible emissions limitation required.** | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [1] of [5] Page [1] of [3]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions of

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code:  **N/A** | 2. Future Effective Date of Allowable  Emissions: |
| 3. Allowable Emissions and Units: | 4. Equivalent Allowable Emissions:  lb/hour tons/year |
| 5. Method of Compliance:  **Method 9** | |
| 6. Allowable Emissions Comment (Description of Operating Method): | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [1] of [5] Page [2] of [3]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted: **PM10** | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  0.291 lb/hour 1.27 tons/year | | 4. Synthetically Limited?  Yes No | |
| 5. Range of Estimated Fugitive Emissions (as applicable):  to tons/year | | | | | |
| 6. Emission Factor:  Reference: | | | 7. Emissions  Method Code:  5 |
| 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. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions:  **Based on the AC application.** | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment:  **Emissions limitations not applicable for this emission unit. Visible emissions limitation required.** | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [1] of [5] Page [2] of [3]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions of

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code:  **N/A** | 2. Future Effective Date of Allowable  Emissions: |
| 3. Allowable Emissions and Units: | 4. Equivalent Allowable Emissions:  lb/hour tons/year |
| 5. Method of Compliance:  **Method 9 Method 9** | |
| 6. Allowable Emissions Comment (Description of Operating Method): | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [1] of [5] Page [3] of [3]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted: **PM2.5** | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  0.075 lb/hour 0.33 tons/year | | 4. Synthetically Limited?  Yes No | |
| 5. Range of Estimated Fugitive Emissions (as applicable):  to tons/year | | | | | |
| 6. Emission Factor:  Reference: | | | 7. Emissions  Method Code:  5 |
| 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. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions:  **Based on the AC application.** | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment:  **Emissions limitations not applicable for this emission unit. Visible emissions limitation required.** | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [1] of [5] Page [3] of [3]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions of

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code:  **N/A** | 2. Future Effective Date of Allowable  Emissions: |
| 3. Allowable Emissions and Units: | 4. Equivalent Allowable Emissions:  lb/hour tons/year |
| 5. Method of Compliance:  **Method 9** | |
| 6. Allowable Emissions Comment (Description of Operating Method): | |

**EMISSIONS UNIT INFORMATION**

**Section [1] of [5]**

## G. VISIBLE EMISSIONS INFORMATION

**Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.**

**Visible Emissions Limitation:** Visible Emissions Limitation **1** of **1**

|  |  |
| --- | --- |
| 1. Visible Emissions Subtype:  **VE10** | 2. Basis for Allowable Opacity:  **X** Rule Other |
| 3. Allowable Opacity:  Normal Conditions: **10** % Exceptional Conditions: **20** %  Maximum Period of Excess Opacity Allowed: **6** min/hour | |
| 4. Method of Compliance: **Method 9** | |
| 5. Visible Emissions Comment: | |

**EMISSIONS UNIT INFORMATION**

**Section [1] of [5]**

## H. CONTINUOUS MONITOR INFORMATION

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

**Continuous Monitoring System:** Continuous Monitor **N/A** of **N/A**

|  |  |
| --- | --- |
| 1. Parameter Code: | 2. Pollutant(s): |
| 3. CMS Requirement: Rule Other | |
| 4. Monitor Information...  Manufacturer:  Model Number: Serial Number: | |
| 5. Installation Date: | 6. Performance Specification Test Date: |
| 7. Continuous Monitor Comment: | |

**EMISSIONS UNIT INFORMATION**

**Section [1] of [5]**

## I. EMISSIONS UNIT ADDITIONAL INFORMATION

**Additional Requirements for All Applications, Except as Otherwise Stated**

|  |
| --- |
| 1. Process Flow Diagram: (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)  **X** Attached, Document ID:  **Att. 1** Previously Submitted, Date |
| 2. Fuel Analysis or Specification: (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)  Attached, Document ID: X Previously Submitted, Date Sept 26, 2011 |
| 3. Detailed Description of Control Equipment: (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)  Attached, Document ID: X Previously Submitted, Date Sept 26, 2011 |
| 4. Procedures for Startup and Shutdown: (Required for all operation 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)  Attached, Document ID: Previously Submitted, Date  X Not Applicable (construction application) |
| 5. Operation and Maintenance 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)  Attached, Document ID: Previously Submitted, Date  X Not Applicable |
| 6. Compliance Demonstration Reports/Records:  Attached, Document ID:  Test Date(s)/Pollutant(s) Tested:  Previously Submitted, Date:  Test Date(s)/Pollutant(s) Tested:  X To be Submitted, Date (if known):  Test Date(s)/Pollutant(s) Tested: VE  Not Applicable  Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application. |
| 7. Other Information Required by Rule or Statute:  Attached, Document ID: Not Applicable |

**EMISSIONS UNIT INFORMATION**

**Section [1] of [5]**

## I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

|  |
| --- |
| 1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)):  Attached, Document ID: **X** Not Applicable |
| 2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.):  Attached, Document ID: **X** Not Applicable |
| 3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)  Attached, Document ID: **X** Not Applicable |

Additional Requirements for Title V Air Operation Permit Applications

|  |
| --- |
| 1. Identification of Applicable Requirements:  Attached, Document ID: |
| 2. Compliance Assurance Monitoring:  Attached, Document ID: **X** Not Applicable |
| 3. Alternative Methods of Operation:  Attached, Document ID: **X** Not Applicable |
| 4. Alternative Modes of Operation (Emissions Trading):  Attached, Document ID: **X** Not Applicable |

Additional Requirements Comment

|  |
| --- |
|  |

**EMISSIONS UNIT INFORMATION**

**Section [2] of [5]**

# III. EMISSIONS UNIT INFORMATION

**Title V Air Operation Permit Application -** For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for an initial, revised or renewal Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

**Air Construction Permit or FESOP Application -** For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an “unregulated emissions unit” does not apply. If this is an application for an air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

**Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application –** Where this application is used to apply for both an air construction permit and a revised or renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes, and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

**EMISSIONS UNIT INFORMATION**

**Section [2] of [5]**

## A. GENERAL EMISSIONS UNIT INFORMATION

**Title V Air Operation Permit** **Emissions Unit Classification**

|  |
| --- |
| 1. Regulated or Unregulated Emissions Unit? (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.)  **X** The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.  The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit. |

Emissions Unit Description and Status

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Type of Emissions Unit Addressed in this Section: (Check one)  **X** This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).  This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.  This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only. | | | |
| 2. Description of Emissions Unit Addressed in this Section: **Grate-Suspension Boiler** | | | |
| 3. Emissions Unit Identification Number: **002** | | | |
| 4. Emissions Unit  Status Code:  **A** | 5. Commence  Construction  Date: 2012 | 6. Initial Startup  Date: 10/1/13 | 7. Emissions Unit Major Group  SIC Code: **49** |
| 8. Federal Program Applicability: (Check all that apply)  Acid Rain Unit  **X** CAIR Unit | | | |
| 9. Package Unit:  Manufacturer: Model Number: | | | |
| 10. Generator Nameplate Rating: 80 MW | | | |
| 11. Emissions Unit Comment: coal-fired boiler converted to biomass boiler | | | |

**EMISSIONS UNIT INFORMATION**

**Section [2] of [5]**

**Emissions Unit Control Equipment/Method:** Control **1** of **4**

|  |
| --- |
| 1. Control Equipment/Method Description:  **Electrostatic Precipitator** |
| 2. Control Device or Method Code: **128** |

**Emissions Unit Control Equipment/Method:** Control **2** of **4**

|  |
| --- |
| 1. Control Equipment/Method Description:  **Dry Limestone Injection** |
| 2. Control Device or Method Code: **041** |

**Emissions Unit Control Equipment/Method:** Control **3** of **4**

|  |
| --- |
| 1. Control Equipment/Method Description:  **Catalytic Oxidizer** |
| 2. Control Device or Method Code: **109** |

**Emissions Unit Control Equipment/Method:** Control **4** of **4**

|  |
| --- |
| 1. Control Equipment/Method Description:  **Selective Catalytic Reduction (SCR)** |
| 2. Control Device or Method Code: **139** |

**EMISSIONS UNIT INFORMATION**

**Section [2] of [5]**

## B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

**Emissions Unit Operating Capacity and Schedule**

|  |
| --- |
| 1. Maximum Process or Throughput Rate: **70-80 MW Gross** |
| 2. Maximum Production Rate: |
| 3. Maximum Heat Input Rate: **900** million Btu/hr |
| 4. Maximum Incineration Rate: pounds/hr  tons/day |
| 5. Requested Maximum Operating Schedule:  hours/day days/week  weeks/year **8,760** hours/year |
| 6. Operating Capacity/Schedule Comment:    **The boiler is rated at a nominal 900 million Btu/hr on a 4-hour average basis.**  **The hours of operation of this emission unit are not restricted.** |

**EMISSIONS UNIT INFORMATION**

**Section [2] of [5]**

**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: | | 2. Emission Point Type Code:  **1** | |
| 3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:  **165-foot vertical stack** | | | |
| 4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: | | | |
| 5. Discharge Type Code:V | 6. Stack Height:  Feet **165** | | 7. Exit Diameter:  Feet **12** |
| 8. Exit Temperature: 340  °F | 9. Actual Volumetric Flow Rate:  390,000 acfm | | 10. Water Vapor:  18 % |
| 11. Maximum Dry Standard Flow Rate:  205,000 dscfm | | 12. Nonstack Emission Point Height:  feet | |
| 13. Emission Point UTM Coordinates...  Zone: East (km):  North (km): | | 14. Emission Point Latitude/Longitude…  Latitude (DD/MM/SS)  Longitude (DD/MM/SS) | |
| 15. Emission Point Comment: | | | |

**EMISSIONS UNIT INFORMATION**

**Section [2] of [5]**

## D. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment **1** of **1**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Segment Description (Process/Fuel Type):  **External Combustion Boilers 🡪 Electric Generation 🡪 Wood/Bark Waste 🡪 Wood/Bark Fired Boiler** | | | |
| 2. Source Classification Code (SCC):  **1-01-009-02** | | 3. SCC Units:  **Tons Combusted** | |
| 4. Maximum Hourly Rate: 90 | 5. Maximum Annual Rate:  788,400 | | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: 0.05 | 8. Maximum % Ash: | | 9. Million Btu per SCC Unit:  10 |
| 10. Segment Comment:  Unit capacity defined by 900 mmbtu/hr heat input. Based on assumed wood heat content of 5000 btu/lb, 90 ton/hr of wood. 8760 hr/yr/ | | | |

**EMISSIONS UNIT INFORMATION**

**Section [2] of [5]**

## 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 |
| **CO** | **109** |  | **EL** |
| **NOx** | **139** |  | **EL** |
| **PM/PM10** | **128** |  | **EL** |
| **PM2.5** | **128** |  | **EL** |
| **SO2** | **041** |  | **EL** |
| **VOC** |  |  | **EL** |
| **HAPs** |  |  | **EL** |
| **SAM** |  |  | **EL** |
| **H106 (HCl)** | **041** |  | **NS/ EL in 2016** |
| **CO2e** |  |  | **NS** |
| **H114 (Hg)** |  |  | **NS/ EL in 2016** |
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**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [1] of [12]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted:  **CO** | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  **40.5** lb/hour 177.4 tons/year | | 4. Synthetically Limited?  Yes No | |
| 5. Range of Estimated Fugitive Emissions (as applicable):  to tons/year | | | | | |
| 6. Emission Factor:  Reference: ESCPSD | | | 7. Emissions  Method Code: 3B |
| 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. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions:  **Based on the AC application.** | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment:  **Synthetically limited to avoid PSD.** | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [1] of [12]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions **1** of **1**

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code:  **AVOID PSD** | 2. Future Effective Date of Allowable  Emissions: |
| 3. Allowable Emissions and Units:  **40.5 lb/hr, 12-month, rolled monthly** | 4. Equivalent Allowable Emissions:  **40.5** lb/hour 177.4 tons/year |
| 5. Method of Compliance:  **CEMS** | |
| 6. Allowable Emissions Comment (Description of Operating Method): | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [2] of [12]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted:  **NOx** | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  **135** lb/hour 591.3 tons/year | | 4. Synthetically Limited?  Yes No | |
| 5. Range of Estimated Fugitive Emissions (as applicable):  to tons/year | | | | | |
| 6. Emission Factor:  Reference: | | | 7. Emissions  Method Code: 1 |
| 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. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions:  **Based on the AC application.** | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment:  **Synthetically limited to avoid PSD.** | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [2] of [12]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions **1** of **1**

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code:  **ESCPSD** | 2. Future Effective Date of Allowable  Emissions: |
| 3. Allowable Emissions and Units:  **Avoid PSD - 135 lb/hr, 12-month, rolled monthly** | 4. Equivalent Allowable Emissions:  **135** lb/hour tons/year |
| 5. Method of Compliance:  **CEMS** | |
| 6. Allowable Emissions Comment (Description of Operating Method): | |

**Allowable Emissions** Allowable Emissions **2** of **2**

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code:  **NSPS Subpart Db** | 2. Future Effective Date of Allowable  Emissions: |
| 3. Allowable Emissions and Units:  NSPS- **0.20 lb/MMBtu, 30-day basis** | 4. Equivalent Allowable Emissions:  **180** lb/hour tons/year |
| 5. Method of Compliance:  **CEMS** | |
| 6. Allowable Emissions Comment (Description of Operating Method): | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [3] of [12]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted:  **PM/PM10** | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  **11.7** lb/hour 51.2 tons/year | | 4. Synthetically Limited?  Yes No | |
| 5. Range of Estimated Fugitive Emissions (as applicable):  to tons/year | | | | | |
| 6. Emission Factor:  Reference: | | | 7. Emissions  Method Code: 3B |
| 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. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions:  **Based on the AC application.** | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment:  **Synthetically limited to avoid PSD. Value is below ESCPSD maximum value.** | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [3] of [12]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions **1** of **1**

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code:  **NSPS Subpart Db** | 2. Future Effective Date of Allowable  Emissions: |
| 3. Allowable Emissions and Units:  **11.7 lb/hr** | 4. Equivalent Allowable Emissions:  **11.7** lb/hour tons/year |
| 5. Method of Compliance:  **Method 5** | |
| 6. Allowable Emissions Comment (Description of Operating Method):  **Limit lower than required to avoid PSD.**  **Limit determined based on approximation of 0.013 lb/MMBtu, which insures compliance with 40 CFR 60 Subpart Db limit of 0.030 lb PM/MMBtu.** | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [4] of [12]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted:  **PM2.5** | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  **7.6** lb/hour 33.2 tons/year | | 4. Synthetically Limited?  Yes No | |
| 5. Range of Estimated Fugitive Emissions (as applicable):  to tons/year | | | | | |
| 6. Emission Factor:  Reference: | | | 7. Emissions  Method Code:5 |
| 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. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions: | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment:  **Potential emissions based on calculations from 0530380-001-AC Application** | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [4] of [12]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions **N/A** of **N/A**

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code: | 2. Future Effective Date of Allowable  Emissions: |
| 3. Allowable Emissions and Units: | 4. Equivalent Allowable Emissions:  lb/hour tons/year |
| 5. Method of Compliance: | |
| 6. Allowable Emissions Comment (Description of Operating Method): | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [5] of [12]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted:  **SO2** | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  **135** lb/hour 591.3 tons/year | | 4. Synthetically Limited?  Yes No | |
| 5. Range of Estimated Fugitive Emissions (as applicable):  to tons/year | | | | | |
| 6. Emission Factor:  Reference: | | | 7. Emissions  Method Code:  1 |
| 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. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions:  **Based on the AC application.** | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment:  **Synthetically limited to avoid PSD. Value is below effective rate of lb/mmbtu required by NSPS Da, 0.32 lb/mmbtu.** | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [5] of [12]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions **1** of **1**

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code:  **ESCPSD** | 2. Future Effective Date of Allowable  Emissions: |
| 3. Allowable Emissions and Units:  **135 lb/hr, 12-month, rolled monthly** | 4. Equivalent Allowable Emissions:  **135** lb/hour tons/year |
| 5. Method of Compliance:  **CEMS** | |
| 6. Allowable Emissions Comment (Description of Operating Method): | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [6] of [12]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted:  **VOC** | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  **9.0** lb/hour 39.4 tons/year | | 4. Synthetically Limited?  Yes No | |
| 5. Range of Estimated Fugitive Emissions (as applicable):  to tons/year | | | | | |
| 6. Emission Factor:  Reference: | | | 7. Emissions  Method Code: 5 |
| 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. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions:  **Based on the AC application.** | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment:  **Synthetically limited to avoid PSD.** | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [6] of [12]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions **1** of **1**

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code:  **ESCPSD** | 2. Future Effective Date of Allowable  Emissions: |
| 3. Allowable Emissions and Units:  **9.0 lb/hr** | 4. Equivalent Allowable Emissions:  **9.0** lb/hour tons/year |
| 5. Method of Compliance:  **Method 25, 25A, or 18** | |
| 6. Allowable Emissions Comment (Description of Operating Method): | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [7] of [12]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted:  **HAPs** | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  **39.4** lb/hour **172.6** tons/year | | 4. Synthetically Limited?  Yes No | |
| 5. Range of Estimated Fugitive Emissions (as applicable):  to tons/year | | | | | |
| 6. Emission Factor:  Reference: | | | 7. Emissions  Method Code: 5 |
| 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. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions:  **Based on the AC application.** | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment:  **Potential emissions based on calculations from 0530380-001-AC Application** | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [7] of [12]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions **N/A** of **N/A**

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code: | 2. Future Effective Date of Allowable  Emissions: |
| 3. Allowable Emissions and Units: | 4. Equivalent Allowable Emissions:  lb/hour tons/year |
| 5. Method of Compliance: | |
| 6. Allowable Emissions Comment (Description of Operating Method): | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [8] of [12]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted:  **Sulfuric Acid Mist (SAM)** | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  **2.2** lb/hour 9.5 tons/year | | 4. Synthetically Limited?  Yes No | |
| 5. Range of Estimated Fugitive Emissions (as applicable):  to tons/year | | | | | |
| 6. Emission Factor:  Reference: | | | 7. Emissions  Method Code: 3B |
| 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. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions:  **Based on the AC application.** | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment:  **Synthetically limited to avoid PSD.** | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [8] of [12]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions **1** of **1**

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code:  **ESCPSD** | 2. Future Effective Date of Allowable  Emissions: |
| 3. Allowable Emissions and Units:  **2.2 lb/hr** | 4. Equivalent Allowable Emissions:  **2.2** lb/hour tons/year |
| 5. Method of Compliance:  **Method 8** | |
| 6. Allowable Emissions Comment (Description of Operating Method): | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [9] of [12]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted:  **114 -Hg** | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  **0.0005** lb/hour **0.19** tons/year | | 4. Synthetically Limited?  Yes No | |
| 5. Range of Estimated Fugitive Emissions (as applicable):  to tons/year | | | | | |
| 6. Emission Factor:  Reference: NESHAP DDDDD | | | 7. Emissions  Method Code: 5 |
| 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. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions:  **Based on limit of NESHAP, 0.0000056 lb/mmbtu, which must comply in 2016. Equivalent to 4.1 lb/yr** | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment: | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [9] of [12]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions **1** of **1**

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code: **NESHAP** | 2. Future Effective Date of Allowable  Emissions: 1/31/2016 |
| 3. Allowable Emissions and Units:  0.0000056 lb/mmbtu | 4. Equivalent Allowable Emissions:  lb/hour tons/year |
| 5. Method of Compliance:  **M29** | |
| 6. Allowable Emissions Comment (Description of Operating Method):  NESHAP limit to apply in 2016 of 0.0000056 lb/mmbtu | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [10] of [12]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted:  **H106 – Hydrogen Chloride (HCl)** | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  **19.8** lb/hour **86.7** tons/year | | 4. Synthetically Limited?  Yes No | |
| 5. Range of Estimated Fugitive Emissions (as applicable):  to tons/year | | | | | |
| 6. Emission Factor: NESHAP DDDDD  Reference: 0.022 lb/mmbtu | | | 7. Emissions  Method Code: **5** |
| 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. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions:  NESHAP DDDDD limit in 2016 of 0.022 lb/mmbtu x 900 mmbtu/hr | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment: | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [10] of [12]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions **1** of **1**

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code: NESHAP | 2. Future Effective Date of Allowable  Emissions: 1/31/2016 |
| 3. Allowable Emissions and Units:  0.022 lb/mmbtu | 4. Equivalent Allowable Emissions:  lb/hour tons/year |
| 5. Method of Compliance: M 26A | |
| 6. Allowable Emissions Comment (Description of Operating Method): | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [12] of [12]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted:  **CO2e** | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  lb/hour **25,459** tons/year | | 4. Synthetically Limited?  Yes No | |
| 5. Range of Estimated Fugitive Emissions (as applicable):  to tons/year | | | | | |
| 6. Emission Factor:  Reference: | | | 7. Emissions  Method Code: 5 |
| 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. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions: | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment:    **Potential emissions based on calculations from 0530380-001-AC Application** | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [2] of [5] Page [12] of [12]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions **N/A** of **N/A**

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code: | 2. Future Effective Date of Allowable  Emissions: |
| 3. Allowable Emissions and Units: | 4. Equivalent Allowable Emissions:  lb/hour tons/year |
| 5. Method of Compliance: | |
| 6. Allowable Emissions Comment (Description of Operating Method): | |

**EMISSIONS UNIT INFORMATION**

**Section [2] of [5]**

## G. VISIBLE EMISSIONS INFORMATION

**Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.**

**Visible Emissions Limitation:** Visible Emissions Limitation **1** of **1**

|  |  |
| --- | --- |
| 1. Visible Emissions Subtype:  **VE10** | 2. Basis for Allowable Opacity:  **X** Rule Other |
| 3. Allowable Opacity:  Normal Conditions: **10** % Exceptional Conditions: **20** %  Maximum Period of Excess Opacity Allowed: **6** min/hour | |
| 4. Method of Compliance: **COMS** | |
| 5. Visible Emissions Comment:  Opacity: During startup, shutdown and malfunctions, the stack opacity shall not exceed 20% based on 6-minute block averages, except for one 6-minute block per hour that shall not exceed 27% opacity. | |

**EMISSIONS UNIT INFORMATION**

**Section [2] of [5]**

## H. CONTINUOUS MONITOR INFORMATION

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

**Continuous Monitoring System:** Continuous Monitor **1** of **5**

|  |  |
| --- | --- |
| 1. Parameter Code: EM | 2. Pollutant(s):  **CO** |
| 3. CMS Requirement: Rule X Other | |
| 4. Monitor Information.  Manufacturer:  Model Number: Serial Number: | |
| 5. Installation Date: 10/1/2013 | 6. Performance Specification Test Date:  Expected to be 3/31/2014 |
| 7. Continuous Monitor Comment: monitor of CO to avoid PSD | |

**Continuous Monitoring System:** Continuous Monitor **2** of **5**

|  |  |
| --- | --- |
| 1. Parameter Code: EM | 2. Pollutant(s):  **SO2** |
| 3. CMS Requirement: X Rule X Other | |
| 4. Monitor Information.  Manufacturer:  Model Number: Serial Number: | |
| 5. Installation Date:  2008 | 6. Performance Specification Test Date:  2/14/2014 |
| 7. Continuous Monitor Comment: monitor to avoid PSD and NSPS Da and CAIR | |

**EMISSIONS UNIT INFORMATION**

**Section [2] of [5]**

## H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

**Continuous Monitoring System:** Continuous Monitor **3** of **5**

|  |  |
| --- | --- |
| 1. Parameter Code: EM | 2. Pollutant(s):  **NOx** |
| 3. CMS Requirement: X Rule X Other | |
| 4. Monitor Information...  Manufacturer:  Model Number: Serial Number: | |
| 5. Installation Date:  2008 | 6. Performance Specification Test Date: 2/14/14 |
| 7. Continuous Monitor Comment: monitor to avoid PSD and CAIR | |

**Continuous Monitoring System:** Continuous Monitor **4** of **5**

|  |  |
| --- | --- |
| 1. Parameter Code: EM | 2. Pollutant(s):  **FLOW** |
| 3. CMS Requirement: X Rule X Other | |
| 4. Monitor Information...  Manufacturer:  Model Number: Serial Number: | |
| 5. Installation Date:  2008 | 6. Performance Specification Test Date: 2/15/14 |
| 7. Continuous Monitor Comment: monitor to avoid PSD and NSPS Da and CAIR | |

**EMISSIONS UNIT INFORMATION**

**Section [2] of [5]**

## H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

**Continuous Monitoring System:** Continuous Monitor **5** of **5**

|  |  |
| --- | --- |
| 1. Parameter Code: EM | 2. Pollutant(s):  **CO2** |
| 3. CMS Requirement: X Rule X Other | |
| 4. Monitor Information...  Manufacturer:  Model Number: Serial Number: | |
| 5. Installation Date:  2008 | 6. Performance Specification Test Date: 2/14/14 |
| 7. Continuous Monitor Comment: monitor to 40 CFR 98 and CAIR | |

**EMISSIONS UNIT INFORMATION**

**Section [2] of [5]**

## I. EMISSIONS UNIT ADDITIONAL INFORMATION

**Additional Requirements for All Applications, Except as Otherwise Stated**

|  |
| --- |
| 1. Process Flow Diagram: (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)  Attached, Document ID:  **X** Previously Submitted, Date **Sept. 26, 2011** |
| 2. Fuel Analysis or Specification: (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)  **X** Attached, Document ID: **Appendix 1** Previously Submitted, Date |
| 3. Detailed Description of Control Equipment: (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)  **X** Attached, Document ID: **Appendix 1** Previously Submitted, Date |
| 4. Procedures for Startup and Shutdown: (Required for all operation 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)  **X** Attached, Document ID: **Appendix 1** Previously Submitted, Date  Not Applicable (construction application) |
| 5. Operation and Maintenance 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)  X Attached, Document ID: Appendix 1 Previously Submitted, Date  Not Applicable |
| 6. Compliance Demonstration Reports/Records:  X Attached, Document ID: Attachments  Test Date(s)/Pollutant(s) Tested: **NOx, SO2, CO2, flow**  Previously Submitted, Date:  Test Date(s)/Pollutant(s) Tested:  X To be Submitted, Date (if known):  Test Date(s)/Pollutant(s) Tested: **PM, VOC, SAM, CO, opacity, NH3 slip**  Not Applicable  Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application. |
| 7. Other Information Required by Rule or Statute:  Attached, Document ID: Not Applicable |

**EMISSIONS UNIT INFORMATION**

**Section [2] of [5]**

## I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

|  |
| --- |
| 1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)):  Attached, Document ID: **X** Not Applicable |
| 2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.):  Attached, Document ID: **X** Not Applicable |
| 3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)  Attached, Document ID: **X** Not Applicable |

Additional Requirements for Title V Air Operation Permit Applications

|  |
| --- |
| 1. Identification of Applicable Requirements:  Attached, Document ID: |
| 2. Compliance Assurance Monitoring:  Attached, Document ID: **X** Not Applicable |
| 3. Alternative Methods of Operation:  Attached, Document ID: **X** Not Applicable |
| 4. Alternative Modes of Operation (Emissions Trading):  Attached, Document ID: **X** Not Applicable |

Additional Requirements Comment

|  |
| --- |
|  |

**EMISSIONS UNIT INFORMATION**

**Section [3] of [5]**

# III. EMISSIONS UNIT INFORMATION

**Title V Air Operation Permit Application -** For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for an initial, revised or renewal Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

**Air Construction Permit or FESOP Application -** For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an “unregulated emissions unit” does not apply. If this is an application for an air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

**Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application –** Where this application is used to apply for both an air construction permit and a revised or renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes, and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

**EMISSIONS UNIT INFORMATION**

**Section [3] of [5]**

## A. GENERAL EMISSIONS UNIT INFORMATION

**Title V Air Operation Permit** **Emissions Unit Classification**

|  |
| --- |
| 1. Regulated or Unregulated Emissions Unit? (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.)  **X** The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.  The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit. |

Emissions Unit Description and Status

|  |  |  |  |
| --- | --- | --- | --- |
| 1. 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).  **X** This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.  This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only. | | | |
| 2. Description of Emissions Unit Addressed in this Section:  **Ash and Handling, Storage and Shipment** | | | |
| 3. Emissions Unit Identification Number: **003** | | | |
| 4. Emissions Unit  Status Code:  **A** | 5. Commence  Construction  Date:2012 | 6. Initial Startup  Date: 10/1/2013 | 7. Emissions Unit Major Group  SIC Code: **49** |
| 8. Federal Program Applicability: (Check all that apply)  Acid Rain Unit  CAIR Unit | | | |
| 9. Package Unit:  Manufacturer: Model Number: | | | |
| 10. Generator Nameplate Rating: MW | | | |
| 11. Emissions Unit Comment: | | | |

**EMISSIONS UNIT INFORMATION**

**Section [3] of [5]**

**Emissions Unit Control Equipment/Method:** Control **1** of **1**

|  |
| --- |
| 1. Control Equipment/Method Description:  **Fabric Filter – High Temperature (T>250F) – 016**  **These are old emission points EU001 and EU036** |
| 2. Control Device or Method Code: 016 |

**Emissions Unit Control Equipment/Method:** Control of

|  |
| --- |
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

**EMISSIONS UNIT INFORMATION**

**Section [3] of [5]**

## 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: |
| 3. Maximum Heat Input Rate: million Btu/hr |
| 4. Maximum Incineration Rate: pounds/hr  tons/day |
| 5. Requested Maximum Operating Schedule:  hours/day days/week  weeks/year **8,760** hours/year |
| 6. Operating Capacity/Schedule Comment:  **This unit does not have any performance restrictions.** |

**EMISSIONS UNIT INFORMATION**

**Section [3] of [5]**

**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: | | 2. Emission Point Type Code: 1 | |
| 3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:    **Existing EU 001 and 036. See Appendix below.** | | | |
| 4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: | | | |
| 5. Discharge Type Code: | 6. Stack Height:  Feet | | 7. Exit Diameter:  feet |
| 8. Exit Temperature:  °F | 9. Actual Volumetric Flow Rate:  Acfm | | 10. Water Vapor:  % |
| 11. Maximum Dry Standard Flow Rate:  Dscfm | | 12. Nonstack Emission Point Height:  feet | |
| 13. Emission Point UTM Coordinates...  Zone: East (km):  North (km): | | 14. Emission Point Latitude/Longitude…  Latitude (DD/MM/SS)  Longitude (DD/MM/SS) | |

|  |
| --- |
| 15. Emission Point Comment:  This unit consists of the prior EU001 and EU 036 under the Title V permit facility ID 0530021. |

**EMISSIONS UNIT INFORMATION**

**Section [3] of [5]**

## D. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment **1** of **1**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Segment Description (Process/Fuel Type):  **Industrial Processes 🡪 Miscellaneous Manufacturing Industries 🡪 Miscellaneous Industrial Processes 🡪 Fly Ash Storage/Handling** | | | |
| 2. Source Classification Code (SCC):  **3-99-999-99** | | 3. SCC Units:  **Tons** | |
| 4. Maximum Hourly Rate: | 5. Maximum Annual Rate: | | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: | 8. Maximum % Ash: | | 9. Million Btu per SCC Unit: |
| 10. Segment Comment: | | | |

**EMISSIONS UNIT INFORMATION**

**Section [3] of [5]**

## 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 |
| **PM/PM10** | **016** |  | **EL** |
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**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [3] of [5] Page [1] of [1]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted: **PM/PM10** | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  2.1 lb/hour 9.2 tons/year | | 4. Synthetically Limited?  Yes No | |
| 5. Range of Estimated Fugitive Emissions (as applicable):  to tons/year | | | | | |
| 6. Emission Factor:  Reference: | | | 7. Emissions  Method Code:3B |
| 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. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions: | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment: | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [3] of [5] Page [1] of [1]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions **1** of **1**

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code: | 2. Future Effective Date of Allowable  Emissions: |
| 3. Allowable Emissions and Units: | 4. Equivalent Allowable Emissions:  lb/hour tons/year |
| 5. Method of Compliance: | |
| 6. Allowable Emissions Comment (Description of Operating Method): | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [3] of [5] Page [1] of [1]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted: **PM25** | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  0.15 lb/hour 0.66 tons/year | | 4. Synthetically Limited?  Yes No | |
| 5. Range of Estimated Fugitive Emissions (as applicable):  to tons/year | | | | | |
| 6. Emission Factor:  Reference: | | | 7. Emissions  Method Code:3B |
| 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. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions: | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment: | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [3] of [5] Page [1] of [1]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions **1** of **1**

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code: | 2. Future Effective Date of Allowable  Emissions: |
| 3. Allowable Emissions and Units: | 4. Equivalent Allowable Emissions:  lb/hour tons/year |
| 5. Method of Compliance: | |
| 6. Allowable Emissions Comment (Description of Operating Method): | |

**EMISSIONS UNIT INFORMATION**

**Section [3] of [5]**

## G. VISIBLE EMISSIONS INFORMATION

**Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.**

**Visible Emissions Limitation:** Visible Emissions Limitation **1** of **2**

|  |  |
| --- | --- |
| 1. Visible Emissions Subtype:  **VE10** | 2. Basis for Allowable Opacity:  **X** Rule Other |
| 3. Allowable Opacity:  Normal Conditions: **10** % Exceptional Conditions: **20** %  Maximum Period of Excess Opacity Allowed: min/hour | |
| 4. Method of Compliance: **Method 9** | |
| 5. Visible Emissions Comment: **These visible emission limitations are for the bottom and fly ash conveyors, transfer points, drop points, hoppers, chutes and dust collectors.** | |

**Visible Emissions Limitation:** Visible Emissions Limitation **2** of **2**

|  |  |
| --- | --- |
| 1. Visible Emissions Subtype:  **VE05** | 2. Basis for Allowable Opacity:  **X** Rule Other |
| 3. Allowable Opacity:  Normal Conditions: **5** % Exceptional Conditions: %  Maximum Period of Excess Opacity Allowed: min/hour | |
| 4. Method of Compliance: **Method 9** | |
| 5. Visible Emissions Comment: **These visible emission limitations are for the ash storage bin vent filters.** | |

**EMISSIONS UNIT INFORMATION**

**Section [3] of [5]**

## H. CONTINUOUS MONITOR INFORMATION

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

**Continuous Monitoring System:** Continuous Monitor **N/A** of **N/A**

|  |  |
| --- | --- |
| 1. Parameter Code: | 2. Pollutant(s): |
| 3. CMS Requirement: Rule Other | |
| 4. Monitor Information...  Manufacturer:  Model Number: Serial Number: | |
| 5. Installation Date: | 6. Performance Specification Test Date: |
| 7. Continuous Monitor Comment: | |

**EMISSIONS UNIT INFORMATION**

**Section [3] of [5]**

## I. EMISSIONS UNIT ADDITIONAL INFORMATION

**Additional Requirements for All Applications, Except as Otherwise Stated**

|  |
| --- |
| 1. Process Flow Diagram: (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)  Attached, Document ID:  **X** Previously Submitted, Date **Sept. 26, 2011** |
| 2. Fuel Analysis or Specification: (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)  **X** Attached, Document ID: **Appendix 1** Previously Submitted, Date |
| 3. Detailed Description of Control Equipment: (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)  Attached, Document ID:  X Previously Submitted, Date 9/26/11 |
| 4. Procedures for Startup and Shutdown: (Required for all operation 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)  **X** Attached, Document ID: **Appendix 1** Previously Submitted, Date  Not Applicable (construction application) |
| 5. Operation and Maintenance 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)  Attached, Document ID: Previously Submitted, Date  X Not Applicable |
| 6. Compliance Demonstration Reports/Records:  Attached, Document ID:  Test Date(s)/Pollutant(s) Tested:  Previously Submitted, Date:  Test Date(s)/Pollutant(s) Tested:  X To be Submitted, Date (if known):  Test Date(s)/Pollutant(s) Tested: VE  Not Applicable  Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application. |
| 7. Other Information Required by Rule or Statute:  Attached, Document ID: Not Applicable |

**EMISSIONS UNIT INFORMATION**

**Section [3] of [5]**

## I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

|  |
| --- |
| 1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)):  Attached, Document ID: **X** Not Applicable |
| 2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.):  Attached, Document ID: **X** Not Applicable |
| 3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)  Attached, Document ID: **X** Not Applicable |

Additional Requirements for Title V Air Operation Permit Applications

|  |
| --- |
| 1. Identification of Applicable Requirements:  Attached, Document ID: |
| 2. Compliance Assurance Monitoring:  Attached, Document ID: **X** Not Applicable |
| 3. Alternative Methods of Operation:  Attached, Document ID: **X** Not Applicable |
| 4. Alternative Modes of Operation (Emissions Trading):  Attached, Document ID: **X** Not Applicable |

Additional Requirements Comment

|  |
| --- |
|  |

**EMISSIONS UNIT INFORMATION**

**Section [4] of [5]**

# III. EMISSIONS UNIT INFORMATION

**Title V Air Operation Permit Application -** For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for an initial, revised or renewal Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

**Air Construction Permit or FESOP Application -** For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an “unregulated emissions unit” does not apply. If this is an application for an air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

**Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application –** Where this application is used to apply for both an air construction permit and a revised or renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes, and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

**EMISSIONS UNIT INFORMATION**

**Section [4] of [5]**

## A. GENERAL EMISSIONS UNIT INFORMATION

**Title V Air Operation Permit** **Emissions Unit Classification**

|  |
| --- |
| 1. Regulated or Unregulated Emissions Unit? (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.)  **X** The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.  The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit. |

Emissions Unit Description and Status

|  |  |  |  |
| --- | --- | --- | --- |
| 1. 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).  **X** This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.  This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only. | | | |
| 2. Description of Emissions Unit Addressed in this Section:  **IDSIS Sorbent Handling and Storage** | | | |
| 3. Emissions Unit Identification Number: **004** | | | |
| 4. Emissions Unit  Status Code:  **A** | 5. Commence  Construction  Date: 1984 | 6. Initial Startup  Date: 1984 | 7. Emissions Unit Major Group  SIC Code: **49** |
| 8. Federal Program Applicability: (Check all that apply)  Acid Rain Unit  CAIR Unit | | | |
| 9. Package Unit:  Manufacturer: Model Number: | | | |
| 10. Generator Nameplate Rating: MW | | | |
| 11. Emissions Unit Comment: This unit is an existing limestone injection system. Emission points are existing and were ID EU038 and EU039 under the 0530021 facility ID. Given the low sulfur in wood, the unit has not been needed to control SO2 emissions. | | | |

**EMISSIONS UNIT INFORMATION**

**Section [4] of [5]**

**Emissions Unit Control Equipment/Method:** Control 1 of 1

|  |
| --- |
| 1. Control Equipment/Method Description:  **Low Temp (T<180F) – 018** |
| 2. Control Device or Method Code: |

**Emissions Unit Control Equipment/Method:** Control of

|  |
| --- |
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

**EMISSIONS UNIT INFORMATION**

**Section [4] of [5]**

## 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: |
| 3. Maximum Heat Input Rate: million Btu/hr |
| 4. Maximum Incineration Rate: pounds/hr  tons/day |
| 5. Requested Maximum Operating Schedule:  hours/day days/week  weeks/year **8,760** hours/year |
| 6. Operating Capacity/Schedule Comment:  **This unit does not have any performance restrictions.** |

**EMISSIONS UNIT INFORMATION**

**Section [4] of [5]**

**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: | | 2. Emission Point Type Code: | |
| 3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: | | | |
| 4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: | | | |
| 5. Discharge Type Code: | 6. Stack Height:  Feet | | 7. Exit Diameter:  feet |
| 8. Exit Temperature:  °F | 9. Actual Volumetric Flow Rate:  Acfm | | 10. Water Vapor:  % |
| 11. Maximum Dry Standard Flow Rate:  dscfm | | 12. Nonstack Emission Point Height:  feet | |
| 13. Emission Point UTM Coordinates...  Zone: East (km):  North (km): | | 14. Emission Point Latitude/Longitude…  Latitude (DD/MM/SS)  Longitude (DD/MM/SS) | |
| 15. Emission Point Comment:  **This unit consists of the prior EU038 and EU 039 under the Title V permit facility ID**  **0530021.** | | | |

**EMISSIONS UNIT INFORMATION**

**Section [4] of [5]**

## D. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment **1** of **1**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Segment Description (Process/Fuel Type):  **Industrial Processes 🡪 Miscellaneous Manufacturing Industries 🡪 Miscellaneous Industrial Processes 🡪 Sorbent Loading/Storage/Conveyance** | | | |
| 2. Source Classification Code (SCC):  **3-99-999-99** | | 3. SCC Units: | |
| 4. Maximum Hourly Rate: | 5. Maximum Annual Rate: | | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: | 8. Maximum % Ash: | | 9. Million Btu per SCC Unit: |
| 10. Segment Comment: | | | |

**EMISSIONS UNIT INFORMATION**

**Section [4] of [5]**

## 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 |
| **PM/PM10** | **018** |  | **EL** |
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**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [4] of [5] Page [1] of [1]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted: **PM/PM10** | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  0.77 lb/hour 3.37 tons/year | | 4. Synthetically Limited?  Yes No | |
| 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. Baseline 24-month Period:  From: To: | | | | |
| 9.a. Projected Actual Emissions (if required):  tons/year | 9.b. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions: | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment: | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [4] of [5] Page [1] of [1]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions **1** of **1**

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code: | 2. Future Effective Date of Allowable  Emissions: |
| 3. Allowable Emissions and Units: | 4. Equivalent Allowable Emissions:  lb/hour tons/year |
| 5. Method of Compliance: | |
| 6. Allowable Emissions Comment (Description of Operating Method): | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [4] of [5] Page [1] of [1]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted: **PM25** | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  0.055 lb/hour 0.24 tons/year | | 4. Synthetically Limited?  Yes No | |
| 5. Range of Estimated Fugitive Emissions (as applicable):  to tons/year | | | | | |
| 6. Emission Factor:  Reference: | | | 7. Emissions  Method Code: 5 |
| 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. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions: | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment: | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [4] of [5] Page [1] of [1]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions **1** of **1**

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code: | 2. Future Effective Date of Allowable  Emissions: |
| 3. Allowable Emissions and Units: | 4. Equivalent Allowable Emissions:  lb/hour tons/year |
| 5. Method of Compliance: | |
| 6. Allowable Emissions Comment (Description of Operating Method): | |

**EMISSIONS UNIT INFORMATION**

**Section [4] of [5]**

## G. VISIBLE EMISSIONS INFORMATION

**Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.**

**Visible Emissions Limitation:** Visible Emissions Limitation **1** of **2**

|  |  |
| --- | --- |
| 1. Visible Emissions Subtype:  **VE10** | 2. Basis for Allowable Opacity:  **X** Rule Other |
| 3. Allowable Opacity:  Normal Conditions: **10** % Exceptional Conditions: **20** %  Maximum Period of Excess Opacity Allowed: min/hour | |
| 4. Method of Compliance: **Method 9** | |
| 5. Visible Emissions Comment: **These visible emission limitations are for the sorbent conveyors, transfer points, drop points, hoppers, chutes and dust collectors.** | |

**Visible Emissions Limitation:** Visible Emissions Limitation **2** of **2**

|  |  |
| --- | --- |
| 1. Visible Emissions Subtype:  **VE05** | 2. Basis for Allowable Opacity:  **X** Rule Other |
| 3. Allowable Opacity:  Normal Conditions: **5** % Exceptional Conditions: %  Maximum Period of Excess Opacity Allowed: min/hour | |
| 4. Method of Compliance: **Method 9** | |
| 5. Visible Emissions Comment: **These visible emission limitations are for the bin vent filters.** | |

**EMISSIONS UNIT INFORMATION**

**Section [4] of [5]**

## H. CONTINUOUS MONITOR INFORMATION

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

**Continuous Monitoring System:** Continuous Monitor **N/A** of **N/A**

|  |  |
| --- | --- |
| 1. Parameter Code: | 2. Pollutant(s): |
| 3. CMS Requirement: Rule Other | |
| 4. Monitor Information...  Manufacturer:  Model Number: Serial Number: | |
| 5. Installation Date: | 6. Performance Specification Test Date: |

**EMISSIONS UNIT INFORMATION**

**Section [4] of [5]**

## I. EMISSIONS UNIT ADDITIONAL INFORMATION

**Additional Requirements for All Applications, Except as Otherwise Stated**

|  |
| --- |
| 1. Process Flow Diagram: (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)  Attached, Document ID:  **X** Previously Submitted, Date **Sept. 26, 2011** |
| 2. Fuel Analysis or Specification: (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)  Attached, Document ID: X Previously Submitted, Date 9/26/11 |
| 3. Detailed Description of Control Equipment: (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)  Attached, Document ID: X Previously Submitted, Date 9/26/11 |
| 4. Procedures for Startup and Shutdown: (Required for all operation 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)  **X** Attached, Document ID: **Appendix 1** Previously Submitted, Date  Not Applicable (construction application) |
| 5. Operation and Maintenance 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)  Attached, Document ID: Previously Submitted, Date  X Not Applicable |
| 6. Compliance Demonstration Reports/Records:  Attached, Document ID:  Test Date(s)/Pollutant(s) Tested:  Previously Submitted, Date:  Test Date(s)/Pollutant(s) Tested:  To be Submitted, Date (if known):  Test Date(s)/Pollutant(s) Tested:  Not Applicable  Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application. |
| 7. Other Information Required by Rule or Statute:  Attached, Document ID: Not Applicable |

**EMISSIONS UNIT INFORMATION**

**Section [4] of [5]**

## I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

|  |
| --- |
| 1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)):  Attached, Document ID: **X** Not Applicable |
| 2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.):  Attached, Document ID: **X** Not Applicable |
| 3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)  Attached, Document ID: **X** Not Applicable |

Additional Requirements for Title V Air Operation Permit Applications

|  |
| --- |
| 1. Identification of Applicable Requirements:  Attached, Document ID: |
| 2. Compliance Assurance Monitoring:  Attached, Document ID: **X** Not Applicable |
| 3. Alternative Methods of Operation:  Attached, Document ID: **X** Not Applicable |
| 4. Alternative Modes of Operation (Emissions Trading):  Attached, Document ID: **X** Not Applicable |

Additional Requirements Comment

|  |
| --- |
|  |

**EMISSIONS UNIT INFORMATION**

**Section [5] of [5]**

# III. EMISSIONS UNIT INFORMATION

**Title V Air Operation Permit Application -** For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for an initial, revised or renewal Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

**Air Construction Permit or FESOP Application -** For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an “unregulated emissions unit” does not apply. If this is an application for an air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

**Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application –** Where this application is used to apply for both an air construction permit and a revised or renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes, and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

**EMISSIONS UNIT INFORMATION**

**Section [5] of [5]**

## A. GENERAL EMISSIONS UNIT INFORMATION

**Title V Air Operation Permit** **Emissions Unit Classification**

|  |
| --- |
| 1. Regulated or Unregulated Emissions Unit? (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.)  **X** The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.  The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit. |

Emissions Unit Description and Status

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Type of Emissions Unit Addressed in this Section: (Check one)  **X** This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).  This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.  This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only. | | | |
| 2. Description of Emissions Unit Addressed in this Section:  **Emergency Equipment** | | | |
| 3. Emissions Unit Identification Number: **005** | | | |
| 4. Emissions Unit  Status Code:  **A** | 5. Commence  Construction  Date: 1984 | 6. Initial Startup  Date: 1984 | 7. Emissions Unit Major Group  SIC Code: **49** |
| 8. Federal Program Applicability: (Check all that apply)  Acid Rain Unit  CAIR Unit | | | |
| 9. Package Unit:  Manufacturer: Model Number: | | | |
| 10. Generator Nameplate Rating: MW | | | |
| 11. Emissions Unit Comment:  **This emissions unit consists of one emergency diesel generator with a maximum design rating of 500 kW and one emergency ditch pump with a maximum design rating of 250 kW. This equipment has been on-site since 1984 when the coal boiler was constructed.** | | | |

**EMISSIONS UNIT INFORMATION**

**Section [5] of [5]**

**Emissions Unit Control Equipment/Method:** Control **N/A** of **N/A**

|  |
| --- |
| 1. Control Equipment/Method Description: |
| 2. Control Device or Method Code: |

**EMISSIONS UNIT INFORMATION**

**Section [5] of [5]**

## 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: |
| 3. Maximum Heat Input Rate: million Btu/hr |
| 4. Maximum Incineration Rate: pounds/hr  tons/day |
| 5. Requested Maximum Operating Schedule:  hours/day days/week  weeks/year **100** hours/year |
| 6. Operating Capacity/Schedule Comment:  **The emergency generator and the emergency ditch pump may each operate up to 100 hours per year for maintenance and testing purposes. Operation during emergency conditions is unlimited in accordance with RICE rules for emergency generators. The engines are now an emissions units because of the RICE rules apply to the engines.** |

**EMISSIONS UNIT INFORMATION**

**Section [5] of [5]**

**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: | | 2. Emission Point Type Code: | |
| 3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: | | | |
| 4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: | | | |
| 5. Discharge Type Code: | 6. Stack Height:  feet | | 7. Exit Diameter:  feet |
| 8. Exit Temperature:  °F | 9. Actual Volumetric Flow Rate:  acfm | | 10. Water Vapor:  % |
| 11. Maximum Dry Standard Flow Rate:  dscfm | | 12. Nonstack Emission Point Height:  feet | |
| 13. Emission Point UTM Coordinates...  Zone: East (km):  North (km): | | 14. Emission Point Latitude/Longitude…  Latitude (DD/MM/SS)  Longitude (DD/MM/SS) | |
| 15. Emission Point Comment: | | | |

**EMISSIONS UNIT INFORMATION**

**Section [5] of [5]**

## D. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment **1** of **1**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Segment Description (Process/Fuel Type):  **Industrial Processes 🡪 In-Process Fuel Use 🡪 Distillate Oil 🡪 General** | | | |
| 2. Source Classification Code (SCC):  **3-90-005-89** | | 3. SCC Units: | |
| 4. Maximum Hourly Rate: | 5. Maximum Annual Rate: | | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: | 8. Maximum % Ash: | | 9. Million Btu per SCC Unit: |
| 10. Segment Comment: | | | |

**EMISSIONS UNIT INFORMATION**

**Section [5] of [5]**

## 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 |
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**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [5] of [5] Page [N/A] of [N/A]**

## F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –

**POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

**Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

**Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Pollutant Emitted: | 2. Total Percent Efficiency of Control: | | | |
| 3. Potential Emissions:  lb/hour tons/year | | 4. Synthetically Limited?  Yes No | |
| 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. Baseline 24-month Period:  From: To: | | | | |
| 9.a. Projected Actual Emissions (if required):  tons/year | 9.b. Projected Monitoring Period:  5 years 10 years | | | | |
| 10. Calculation of Emissions: | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment: | | | |

**EMISSIONS UNIT INFORMATION POLLUTANT DETAIL INFORMATION**

**Section [5] of [5] Page [N/A] of [N/A]**

## F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -

**ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

**Allowable Emissions** Allowable Emissions **1** of **1**

|  |  |
| --- | --- |
| 1. Basis for Allowable Emissions Code: | 2. Future Effective Date of Allowable  Emissions: |
| 3. Allowable Emissions and Units: | 4. Equivalent Allowable Emissions:  lb/hour tons/year |
| 5. Method of Compliance: | |
| 6. Allowable Emissions Comment (Description of Operating Method): | |

**EMISSIONS UNIT INFORMATION**

**Section [5] of [5]**

## G. VISIBLE EMISSIONS INFORMATION

**Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.**

**Visible Emissions Limitation:** Visible Emissions Limitation **N/A** of **N/A**

|  |  |
| --- | --- |
| 1. Visible Emissions Subtype: | 2. Basis for Allowable Opacity:  Rule Other |
| 3. Allowable Opacity:  Normal Conditions: % Exceptional Conditions: %  Maximum Period of Excess Opacity Allowed: min/hour | |
| 4. Method of Compliance: | |
| 5. Visible Emissions Comment: | |

**EMISSIONS UNIT INFORMATION**

**Section [5] of [5]**

## H. CONTINUOUS MONITOR INFORMATION

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

**Continuous Monitoring System:** Continuous Monitor of

|  |  |
| --- | --- |
| 1. Parameter Code: | 2. Pollutant(s): |
| 3. CMS Requirement: Rule Other | |
| 4. Monitor Information...  Manufacturer:  Model Number: Serial Number: | |
| 5. Installation Date: | 6. Performance Specification Test Date: |
| 7. Continuous Monitor Comment: | |

**EMISSIONS UNIT INFORMATION**

**Section [5] of [5]**

## I. EMISSIONS UNIT ADDITIONAL INFORMATION

**Additional Requirements for All Applications, Except as Otherwise Stated**

|  |
| --- |
| 1. Process Flow Diagram: (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)  Attached, Document ID:  **X** Previously Submitted, Date **Sept. 26, 2011** |
| 2. Fuel Analysis or Specification: (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)  **X** Attached, Document ID: **Appendix 1** Previously Submitted, Date |
| 3. Detailed Description of Control Equipment: (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)  **X** Attached, Document ID: **Appendix 1** Previously Submitted, Date |
| 4. Procedures for Startup and Shutdown: (Required for all operation 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)  **X** Attached, Document ID: **Appendix 1** Previously Submitted, Date  Not Applicable (construction application) |
| 5. Operation and Maintenance 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)  Attached, Document ID: Previously Submitted, Date  X Not Applicable |
| 6. Compliance Demonstration Reports/Records:  Attached, Document ID:  Test Date(s)/Pollutant(s) Tested:  Previously Submitted, Date:  Test Date(s)/Pollutant(s) Tested:  To be Submitted, Date (if known):  Test Date(s)/Pollutant(s) Tested:  X Not Applicable  Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application. |
| 7. Other Information Required by Rule or Statute:  Attached, Document ID: Not Applicable |

**EMISSIONS UNIT INFORMATION**

**Section [5] of [5]**

## I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

|  |
| --- |
| 1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)):  Attached, Document ID: **X** Not Applicable |
| 2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.):  Attached, Document ID: **X** Not Applicable |
| 3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)  Attached, Document ID: **X** Not Applicable |

Additional Requirements for Title V Air Operation Permit Applications

|  |
| --- |
| 1. Identification of Applicable Requirements:  Attached, Document ID: |
| 2. Compliance Assurance Monitoring:  Attached, Document ID: **X** Not Applicable |
| 3. Alternative Methods of Operation:  Attached, Document ID: **X** Not Applicable |
| 4. Alternative Modes of Operation (Emissions Trading):  Attached, Document ID: **X** Not Applicable |

Additional Requirements Comment

|  |
| --- |
|  |

APPENDIX 1