**PLEASE DO NOT SEND A COPY OF THE INSTRUCTIONS IN WITH YOUR APPLICATION**

The information provided in this form will identify an emission unit and all of its associated equipment, processes, and control devices that need to be addressed in the Title V application. These include equipment, processes, and control devices that are being added, removed, or modified for each emission unit. The information shall include, but not be limited to, the manufacturer specifications and ratings, and the engineering design and operating characteristics.

Additional rows may be added to each table as needed by selecting the **“unprotect document”** or **“stop protection”** function. The location and use of this function varies depending on your version of Word. The forms **“protect document”** tool should then be reselected so that you may resume navigating through the forms with the “tab” key.

**Emission Unit Identification**

***Emission Unit ID:*** The two digit distinct Emission Unit Identification number. All existing numbers should be included in the application as well as all new numbers for new equipment or processes. Numbers and descriptions may not be rearranged. The Emission Unit ID should be the same throughout the application, whenever requested.

***Emission Unit Description:*** A brief description of the emission unit.

**Associated Equipment / Process Information**

Additional information required to complete the review of this permit application should be submitted as attachments to the Title V Application. Equipment and processes that “Stay the Same” must still provide all of the information requested in this form.

***Equipment / Process ID:*** The equipment identification (tag number) for each source. Each piece of equipment should have its own unique ID (alpha-numeric). This is an ID designated by the facility, such as Boiler #1 or Tank #1. This ID number should be carried throughout the application whenever Equipment ID is requested. If several processes will be included in a single emission unit, an ID for that process should be added to the equipment ID. An example of this is three lines, each with two saws. The equipment ID for each of the two saws could be: SAW1, SAW2. The process ID for each line could be: L1, L2, and L3. The equipment/process ID could then be L1SAW1, L1SAW2, L2SAW1, L2SAW2, L3SAW1, and L3SAW2.

***Action (Stays the Same, Add, Remove, Modify, Other):*** Explain what “Action” needs to be taken with the equipment in regards to the Title V permit. “Stays the Same” is if the equipment remains the same. If the project is for the replacement of a boiler, there should be two entries, an entry marked “Remove” for the boiler being removed, and a new entry marked “Add” for the boiler being constructed. “Modify” should be used for existing permitted equipment that will have changes. “Other” can be used for scenarios that do not fit the other types of action.

***Equipment / Process Description (Include the Make and Model if applicable.):*** Describe the equipment or process including all applicable process boundaries. Each piece of equipment within a process should be listed individually.

***Installation / Modification Date(s):*** The start-up date(s) for each piece of equipment or process. The date any subsequent modification was originally commenced for any existing equipment.

***Maximum Design Capacity (units):*** This should be given in appropriate units of measure based on applicable regulations and/or determining emissions. Tanks should list their maximum capacity in terms of volume (liters, cubic meters). Boilers should list their maximum capacity in terms of heat input (million BTU/hr). There may be situations where a piece of equipment burns fuel and has a process weight rate; in these cases, both should be listed.

***Control Device ID(s):*** Identify all control devices that emissions from the equipment/process are routed to.

***Pollutants Controlled:*** List all of the pollutants controlled by this specific control device. Include the Chemical Abstract Service Number (CAS #) for all of the Toxic Air Pollutants and/or Hazardous Air Pollutants controlled by this control device.

***Capture System Efficiency and Description:***The efficiency of the capture system is based on the percentage of the emissions from the process entering the control device. Describe how process emissions are captured (i.e. ducts, hood, closed loop system, etc.) to meet the required capture efficiency. Include details and sample calculations needed to verify the capture efficiency (e.g. fan motor specifications, air flow rates, etc.).

***Emission Point ID(s):*** Each point where a pollutant may exhaust at the equipment/process shall be identified with a unique number or label. Please use the same emission point ID that is used in your current air dispersion modeling scenario, if applicable. This ID number should be carried throughout the application whenever an emission point ID is requested.

**Associated Control Device Information**

Additional information required to complete the review of this permit application should be submitted as attachments to the Title V Application. Control devices that “Stay the Same” must still provide all of the information requested in this form.

***Control Device ID:*** Each control device should have its own unique ID (alpha-numeric) as designated by the facility for air permitting purposes. The Control Device ID is a specific identification (tag number) that should be carried throughout the application whenever the Control Device ID is requested.

***Action (Stays the Same, Add, Remove, Modify, Other):*** Explain what “Action” needs to be taken with the control devices in regards to the Title V permit. “Stays the Same” is if the control device remains the same. If the project is for the replacement of a control device, there should be two entries, an entry marked “Remove” for the control device being removed, and a new entry marked “Add” for the control device being constructed. “Modify” should be used for existing permitted control devices that will have changes. “Other” can be used for scenarios that do not fit the other types of action.

***Control Device Description (Include the Make and Model if applicable.):*** A brief written narrative of the control devices being added, removed, or modified in the proposed construction project. Include the Control Device Type (e.g. Baghouse, ESP, Thermal Oxidizer, Flare, Wet Scrubber, etc.) and a description of the control device including a discussion of any effects the project will have on the overall facility, how the project affects other sources and their emissions, flow diagram/schematic of the process including all input and output streams. For example, if the project is a modification to an existing source, the narrative must describe the scope of the modification and describe the control device before and after the modification.

***Installation / Modification Date:*** The start-up date(s) for control devices. The date any subsequent modification was originally commenced for any existing control devices.

***Maximum Design Capacity (Units):*** Design capacity of the control device; include units of measure (e.g. dry standard cubic feet per minute, air-to-cloth ratio for a bag house, etc.)

***Destruction / Removal Efficiency*:** The efficiency of the control device to destroy or remove the controlled pollutants. Describe the mechanism used to destroy or remove pollutants. Include the details and sample calculations needed to verify the destruction / removal efficiency.

***Is the control device "Inherent to the Process”, “Voluntary” or “Required”?***

***Inherent to the Process:*** Control device is part of the process unit where process cannot operate without control device because it is inherent to the process. (e.g. product collection devices for which the value of the product collected greatly exceeds the cost of the collection device may also be considered as part of a process unit provided they are inherent to the running of that process).

***Voluntary:*** Control device is not relied-upon and un-controlled emissions are used to show compliance with applicable standards and regulations.

***Required:*** Control device is relied-upon and controlled emissions are used to show compliance with applicable standards and regulations.

**Fuel Information**

***Fuels Combusted:***

List the type of fuels combusted and grades (e.g. Natural gas, No. 2 fuel oil, B20).

BTU Content: List the heat capacity of each fuel type (BTU/lb, BTU/gal, etc.).

% Sulfur by weight: List the maximum % sulfur allowed in the fuel type and grade as applicable.

% Ash by weight: List the maximum % ash allowed in the fuel type and grade as applicable.

**Please use a separate form for each Emission Unit ID**

| **APPLICATION IDENTIFICATION***(Please ensure that the information list in this table is the same on all of the forms and required information submitted in the Title V application package.)* |
| --- |
| Facility Name*(This should be the name used to identify the facility)*      | SC Air Permit Number (8-digits only)*(Leave blank if one has never been assigned)*     -      | Application Date      |

|  |
| --- |
| **EMISSION UNIT IDENTIFICATION** |
| **Emission Unit ID** | **Emission Unit Description** |
|       |       |

| **ASSOCIATED EQUIPMENT / PROCESS INFORMATION** |
| --- |
| **Equipment/Process ID** | **Action** | **Equipment / Process Description** | **Installation/****Modification****Date** | **Maximum Design Capacity (Units)** | **Control Device ID(s)** | **Pollutants Controlled****(Include CAS#)** | **Capture System Efficiency and Description** | **Emission Point ID(s)** |
|       | [ ]  Stay the Same[ ]  Add[ ]  Remove[ ]  Modify[ ]  Other |       |       |       |       |       |       |       |
|       | [ ]  Stay the Same[ ]  Add[ ]  Remove[ ]  Modify[ ]  Other |       |       |       |       |       |       |       |
|       | [ ]  Stay the Same[ ]  Add[ ]  Remove[ ]  Modify[ ]  Other |       |       |       |       |       |       |       |

| **ASSOCIATED CONTROL DEVICE INFORMATION** |
| --- |
| **Control Device ID** | **Action** | **Control Device Description** | **Installation/Modification** **Date** | **Maximum Design Capacity (Units)** | **Inherent/Required/Voluntary****(Explain)** | **Destruction / Removal Efficiency** |
|       | [ ]  Stay the Same[ ]  Add[ ]  Remove[ ]  Modify[ ]  Other |       |       |       |       |       |
|       | [ ]  Stay the Same[ ]  Add[ ]  Remove[ ]  Modify[ ]  Other |       |       |       |       |       |
|       | [ ]  Stay the Same[ ]  Add[ ]  Remove[ ]  Modify[ ]  Other |       |       |       |       |       |

| **FUEL INFORMATION** |
| --- |
| **Equipment ID****Process ID****Control Device ID** | **Fuels Combusted** | **BTU Content** | **% Sulfur by Weight** | **% Ash by Weight** |
|       |       |       |       |       |