

Instruction Sheet

DEP7007N Source Emissions Profile

This form provides a detailed description of information related to emissions, stacks, and fugitive emissions.

Source Name: Enter the name of the facility.

KY EIS (AFS) #: Enter the Kentucky Emissions Inventory Section identification number of the facility. The KY EIS number follows the format: 21-____-_____. A new facility will not have a KY EIS number.

Permit #: Enter the permit number of the permitted facility. This number is found on the front page of the permit. A new facility will not have a permit number.

Agency Interest (AI) ID: Enter the agency interest number of the facility. This number is found on the front page of the permit. A new facility will not have an agency interest number.

Date: Enter the date the form was completed. If the form is being revised, enter the date the form was revised.

Section N.1: Emission Summary

Emission Unit #: Enter the unique number used to identify the emission unit. If the emission unit is currently permitted, use the existing identification number.

Emission Unit Name: Enter the name of the emission unit. Include the descriptor “fugitive” for processes that are fugitive emissions.

Process ID: Enter the process ID.

Process Name: Enter the process name.

Control Device Name: Enter the control device name.

Control Device ID: Enter the control device ID.

Stack ID: Enter the number of the stack.

Maximum Design Capacity: Enter the maximum design capacity of each unit in SCC units/hr.

Pollutant: Enter the name of the pollutant.

Uncontrolled Emission Factor: Enter the uncontrolled emission factor in lb/SCC unit.

Emission Factor Source: Enter the source of the emission factor.

Capture Efficiency: Record the capture efficiency as a percentage.

Control Efficiency: Record the control efficiency for the equipment as a percentage.

Hourly Emissions:

Uncontrolled Potential: Enter the uncontrolled emission potential using the formula: Hourly Design Rate (SCC Units) x Emission Factor (lb/SCC Units)

Controlled Potential: Enter the controlled emission potential using the formula: Hourly Design Rate (SCC Units) x Emission Factor (lb/SCC Units) x [1-PTE Control Efficiency]

Actual Emissions:

Uncontrolled Potential: Record the uncontrolled annual emission potential in tons per year.

Controlled Potential: Record the controlled potential in tons per year.

Section N.2: Stack Information

UTM: Enter the UTM zone.

Stack ID: Enter the number of the stack.

Identify all Emission Units and Control Devices that Feed to Stack: List all emissions units, including the process ID, and control devices that feed to stack.

Stack Physical Data:

Equivalent Diameter: Record the equivalent diameter of the stack in feet.

Height: Record the height of the stack in feet.

Base Elevation: Record the base elevation of the stack in feet.

Stack UTM Coordinates:

Northing: Enter the northing coordinates in meters.

Easting: Enter the easting coordinates in meters.

Stack Gas Stream Data:

Flowrate: Record the stack gas stream flowrate in actual cubic feet per minute (acfm).

Temperature: Record the stack gas stream temperature in degrees Fahrenheit.

Exit Velocity: Record the stack gas stream exit velocity in feet per second.

Section N.3: Fugitive Information

UTM Zone: Enter the UTM zone.

Emission Unit #: Enter the unique number used to identify the emission unit. If the emission unit is currently permitted, use the existing identification number.

Emission Unit Name: Enter the name of the emission unit. Include the descriptor "fugitive" for processes that are fugitive emissions.

Process ID: Enter the process ID.

Area Physical Data:

Length of the X Side: Enter the length of the X side in feet.

Length of the Y Side: Enter the length of the Y side in feet.

Area UTM Coordinates:

Northing: Enter the northing coordinates in meters.

Easting: Enter the easting coordinates in meters

Area Release Data:

Release Temperature: Record the release temperature in °Fahrenheit.

Release Height: Record the release height in feet.

Section N.4: Notes, Comments, and Explanations

Use this sheet provide additional notes, comments, or explanations on the information provided in Sections N.1, N.2, and N.3.