**ANNUAL OPERATING REPORT FOR AIR POLLUTANT EMITTING FACILITY**

**[Including Title V Source Emissions Fee Calculation]**

# **DEP FORM No. 62-210.900(5) and INSTRUCTIONS**

# **I. FACILITY REPORT**

## A. REPORT INFORMATION

|  |  |
| --- | --- |
| 1. Year of Report | 2. Number of Emissions Units in Report |

## B. FACILITY INFORMATION

|  |  |  |
| --- | --- | --- |
| 1. Facility ID | 2. Facility Status | 3. Date of Permanent Facility Shutdown (if applicable) |
| 4. Facility Owner/Company Name | | |
| 5. Site Name | | |
| 6. Facility Location  Street Address or Other Locator:    City: County: Zip Code: | | |
| 7. Governmental Facility Code | | |
| 8. Facility Comment | | | |

## C. FACILITY HISTORY INFORMATION

|  |  |  |
| --- | --- | --- |
| 1. Change in Facility  Owner/Company Name during Year? | 2. If Changed, Previous Name | 3. Date of Change |

## D. OWNER/CONTACT INFORMATION

|  |
| --- |
| 1. Owner or Authorized Representative  **or** Title V Responsible Official  2. Pollutant Classification |
| Name and Title |
| Mailing Address  Organization/Firm:  Street Address:  City: State: Zip Code: |
| Telephone: ( ) - Fax: ( ) - |
| E-mail: |
| 2. Report Contact |
| Name and Title |
| Mailing Address  Organization/Firm:  Street Address:  City: State: Zip Code: |
| Telephone: ( ) - Fax: ( ) - |
| E-mail: |
| 3. Facility Contact  2. Pollutant Classification |
| Name and Title |
| Mailing Address  Organization/Firm:  Street Address:  City: State: Zip Code: |
| Telephone: ( ) - Fax: ( ) - |
| E-mail: |

## E. SIGNATURE

OWNER OR AUTHORIZED REPRESENTATIVE STATEMENT (For Non-Title V Sources Only)

|  |
| --- |
| The information given in this report is correct to the best of my knowledge.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Signature Date |

OR

Responsible OFfical Certification (For Title V Sources Only)

|  |
| --- |
| I, the undersigned, am the responsible official as defined in Chapter 62-213, F.A.C., of the Title V source for which this document is being submitted. I hereby certify, based on the information and belief formed after reasonable inquiry, that the statements made and data contained in this document are true, accurate, and complete.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Signature Date  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Printed Name Title |

# **II. EMISSIONS UNIT REPORT**

## A. EMISSIONS UNIT INFORMATION

|  |  |  |
| --- | --- | --- |
| 1. Emissions Unit Description | | |
| 2. Emissions Unit ID | 3. Emissions Unit Classification (DEP Use Only) | 4. Operated during Year? |
| 5. DEP Permit and/or PPS Number, if known (Optional) | | |
| Permit Number: | | PPS Number: |
| 6. Emissions Unit Status | | 7. Emissions Unit Startup Date |
| 8. Long-term Reserve Shutdown Date | | 9. Permanent Shutdown Date |

## B. EMISSION POINT/CONTROL INFORMATION

|  |
| --- |
| 1. Emissions Point Type |
| 2. Description of Control Equipment |

## C. EMISSIONS UNIT OPERATING SCHEDULE INFORMATION

|  |  |
| --- | --- |
| 1. Average Annual Operation  hours/day days/week | 2. Total Operation during Year (hours/year) |

## D. EMISSIONS UNIT COMMENT

|  |
| --- |
|  |

## E. EMISSIONS INFORMATION BY PROCESS/FUEL

### **(1) PROCESS/FUEL INFORMATION**

|  |  |  |
| --- | --- | --- |
| 1. SCC | 2. Description of Process or Type of Fuel | |
| 3. Annual Process or Fuel Usage Rate | 4. SCC Unit | |
| 5. Fuel Average % Sulfur | 6. Fuel Average % Ash | 7. Fuel Heat Content (mmBtu/SCC Unit) |
| 8. Comment | | |

### **(2) EMISSIONS INFORMATION**

|  |  |
| --- | --- |
| 1a. Pollutant 'a':  Below Threshold  Not Emitted for Current SCC  Invalid for All SCC | |
| 2a. Annual Emissions (tons/years) | 3a. Emissions Method Code |
| 4a. Emissions Calculation | |

|  |  |
| --- | --- |
| 1b. Pollutant 'b':  Below Threshold  Not Emitted for Current SCC  Invalid for All SCC | |
| 2b. Annual Emissions (tons/year) | 3b. Emissions Method Code |
| 4b. Emissions Calculation | |

|  |  |
| --- | --- |
| 1c. Pollutant 'c':  Below Threshold  Not Emitted for Current SCC  Invalid for All SCC | |
| 2c. Annual Emissions (tons/year) | 3c. Emissions Method Code |
| 4c. Emissions Calculation | |

### **(2) EMISSIONS INFORMATION (Continued)**

|  |  |
| --- | --- |
| 1d. Pollutant 'd:'  Below Threshold  Not Emitted for Current SCC  Invalid for All SCC | |
| 2d. Annual Emissions (tons/year) | 3d. Emissions Method Code |
| 4d. Emissions Calculation | |

|  |  |
| --- | --- |
| 1e. Pollutant 'e':  Below Threshold  Not Emitted for Current SCC  Invalid for All SCC | |
| 2e. Annual Emissions (tons/year) | 3e. Emissions Method Code |
| 4e. Emissions Calculation | |

|  |  |
| --- | --- |
| 1f. Pollutant 'f':  Below Threshold  Not Emitted for Current SCC  Invalid for All SCC | |
| 2f. Annual Emissions (tons/year) | 3f. Emissions Method Code |
| 4f. Emissions Calculation | |

|  |  |
| --- | --- |
| 1g. Pollutant 'g':  Below Threshold  Not Emitted for Current SCC  Invalid for All SCC | |
| 2g. Annual Emissions (tons/year) | 3g. Emissions Method Code |
| 4g. Emissions Calculation | |

# **III. TITLE V SOURCE EMISSIONS FEE CALCULATION**

# **[For Title V Sources Only]**

|  |  |  |
| --- | --- | --- |
| **Column A**  **Air Pollutant**  **(excluding carbon monoxide and greenhouse gases)**  **Regulated by Title V Source Permit Limit(s)** | **Column B**  **Total Annual**  **Air Pollutant**  **Fee Emissions from Facility**  **(tons)** | **Column C**  **Adjusted**  **Total Annual**  **Air Pollutant**  **Fee Emissions from Facility**  **(tons)**  **[If the amount in Column B is less than 4000 tons/year, enter that amount in Column C.**  **If the amount in Column B is equal to or greater than 4000 tons/year, enter 4000 in Column C.]** |
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|  |  |  |
| **Sum of Adjusted Total Annual Air Pollutant Fee Emissions~~:~~** | | **tons** |
| **Fee Factor\*** | | **x \_\_\_\_\_\_\_\_\_\_ $/ton** |
| **Emissions Fee = (tons x $/ton)** | | **= $** |
| **Annual Title V Source Emissions Fee Due [FDEP Object Code 2275]**  **(= the greater of $250\*\* or the Emissions Fee listed above)** | | **$** |
| **Penalty and Interest Fee Due (if applicable\*\*\*) [FDEP Object Code 2276]** | | **$** |
| **Total Due** | | **= $** |

\* The annual emissions Fee Factor is specified in Rule 62-213.205, F.A.C.

\*\* The minimum annual emissions fee for each Title V source is $250.

\*\*\* Pursuant to paragraph 62-213.205(1)(c), F.A.C., if the fee is not postmarked or electronically submitted by April 1 of the year due, the Department shall impose, in addition to the fee, a penalty of 50 percent of the amount of the fee unpaid plus interest on such amount computed in accordance with Section 220.807, F.S.

**Department of Environmental Protection**

**Division of Air Resource Management**

**INSTRUCTIONS FOR DEP FORM NO. 62-210.900(5)**

**ANNUAL OPERATING REPORT FOR AIR POLLUTANT EMITTING FACILITY**

**[Including Title V Source Emissions Fee Calculation]**

# **GENERAL INSTRUCTIONS**

In accordance with Rule 62-210.370 (3), F.A.C., the Annual Operating Report (AOR) for Air Pollutant Emitting Facility (DEP form number 62-210.900(5)) shall be completed each year for the following facilities:

1. All Title V sources.

2. All synthetic non-Title V sources.

3. All facilities with the potential to emit ten (10) tons per year or more of volatile organic compounds or twenty-five (25) tons per year or more of nitrogen oxides and located in an ozone nonattainment area or ozone air quality maintenance area.

4. All facilities for which an annual operating report is required by rule or permit.

Notwithstanding the above, no annual operating report shall be required for any facility operating under an air general permit.

By April 1 of the year following each calendar year, an annual operating report shall be submitted to the appropriate Department of Environmental Protection (DEP) division, district or DEP-approved local air pollution control program office. However, if the annual operating report is submitted using the DEP’s electronic annual operating report (EAOR) software, there is no requirement to submit DEP Form No. 62-210.900(5) to any DEP or local air program office. Each Title V source shall submit the annual operating report using the DEP’s electronic annual operating report software, unless the Title V source claims a technical or financial hardship. A technical or financial hardship is claimed by submitting DEP Form No. 62-210.900(5) to the DEP Division of Air Resource Management at:

AOR and Major Air Pollution Source Annual Emissions Fee

P.O. Box 3070

Tallahassee, Florida 32315-3070.

(See <http://www.dep.state.fl.us/air/emission/eaor/> for information regarding annual operating reports.)

Section I of DEP form number 62-210.900(5), Facility Report, must be submitted for each air pollutant emitting facility required to file the form, including any facility which was on cold standby or otherwise did not operate during the year for which data are being reported (the “reporting year”). Section I of the form should also be submitted for any facility that was permanently shut down during the reporting year.

Section II of DEP form number 62-210.900(5), Emissions Unit Report, must be submitted annually for each reportable emissions unit within the facility, including any such emissions unit which operated part of the year but was permanently shut down during the reporting year.

Section III of DEP form number 62-210.900(5), Title V Source Emissions Fee Calculation, must be submitted for each Title V source permitted to operate in Florida. Each Title V source must pay between January 15 and April 1 of each year an annual emissions fee in an amount determined as set forth in subsection 62-213.205(1), F.A.C., and reflected in the calculations in Section III.

The terms “facility” and “emissions unit”, and other technical and regulatory terms that appear in these instructions, have the meanings ascribed to them in Rule 62-210.200, F.A.C.

The department strongly encourages non-Title V source facilities to complete and submit the annual operating report electronically using the department’s EAOR software, available for download at [www.dep.state.fl.us/air/emission/eaor](http://www.dep.state.fl.us/air/emission/eaor). The EAOR software partially prefills the form with data from the department's Air Resources Management System (ARMS) that are not expected to change from year to year. The owner or operator is expected to enter data specific to the reporting year (e.g., actual process/fuel usage rates and pollutant emissions) and correct any errors or omissions in the prefilled ARMS data. In the case of any prefilled data element, the term "enter" as it appears in these instructions should be read to mean “verify.” The electronic report shall be submitted to the department following directions for use of the EAOR software.

The department will also accept hardcopy reports submitted by non-Title V source facilities using a computer-generated, partially prefilled form. Hardcopy reports shall be submitted to the appropriate DEP district or DEP-approved local air pollution control program office.

The department will post procedures for obtaining the latest version of the EAOR software or a computer-generated, partially prefilled hardcopy form on its website at [www.dep.state.fl.us/air/emission/eaor](http://www.dep.state.fl.us/air/emission/eaor).

# **I. FACILITY REPORT**

## A. REPORT INFORMATION

1. **Year of Report** - Enter the year of the data given in this report (the “reporting year”).

2. **Number of Emissions Units in Report** - Enter the number of emissions units included in this report. A separate Section II of the form must be completed for each reportable emissions unit at the facility. See Section II of the instructions for additional information on the reporting of emissions units.

## B. FACILITY INFORMATION

1. **Facility ID** - If known, enter the DEP seven-digit facility identification number.

2. **Facility Status** - Enter, from the list below, the facility status code valid as of December 31 of the reporting year.

Code Status

A Active - One or more emissions units in operation, on standby status, temporarily shut down (including any shutdown while undergoing modification), or on long-term reserve shutdown. This code indicates an existing facility which has not been permanently shut down, though it may not be operating at the time of this report.

C Construction - All emissions units in planning stage or undergoing initial construction, including reconstruction. This code indicates a proposed new facility, or an existing facility which has been or will be shut down in its entirety for reconstruction.

I Inactive - All emissions units permanently shut down; permit(s) surrendered or expired.

3. **Date of Permanent Facility Shutdown** - If the facility was permanently shut down during the reporting year, enter the date of cessation of all operations.

4. **Facility Owner/Company Name** - Enter the name of the corporation, business, governmental entity, or individual that has ownership or control of the facility. Common abbreviations should be used with blanks left between each word to insure readable entries (e.g., Fla. Electric Co., U.S. Pulp Inc., Dept. of Health, etc.).

5. **Site Name** ‑ Enter the common name, if any, of the facility site addressed in this report (e.g., Okeechobee Plant, Fernandina Mill, Fla. State Hospital, etc.). Also use this field to enter any alias name under which the corporate owner of the facility is doing business at this facility location.

6. **Facility Location**

**Street Address or Other Locator** - Enter the street address or approximate location of the facility as shown on a road map. This may be an intersection description or any locator which will allow a person unfamiliar with the facility to determine its physical location (e.g., 3 mi. W. of US 41 off S.R. 786.) For relocatable facilities, enter the current location.

**City** - Enter the name of the city in which the facility is located. If the facility is not located within city limits, enter the name of the nearest city.

**County** - Enter the name of the county in which the facility is located.

**Zip Code** ‑ Enter the five‑digit postal zip code of the facility's physical location (not necessarily the mailing address zip code).

7. **Governmental Facility Code** - If the owner or operator of the facility is a unit of government, enter, from the list below, the code for such unit of government. If the owner or operator is not a unit of government, enter “0”.

Code Unit of Government

0 None (non-governmental facility)

1 Federal

2 State

3 County

4 Municipality

8. **Facility Comment** - Enter any comments about the facility addressed in this report.

## C. FACILITY HISTORY INFORMATION

1. **Change in Facility Owner/Company Name during Year?** Yes or No

2. **If Changed, Previous Name** - If the name of the individual or corporate owner of the facility was changed during the reporting year, enter the name by which the facility was previously known. If the facility also changed ownership during the reporting year and an application for transfer of permit has not been previously submitted, submit such form at this time.

3. **Date of Change** - Enter the date of change of facility owner/company name.

## D. OWNER/CONTACT INFORMATION

1. **(Non-Title V Source)** **Owner or Authorized Representative**

Enter all the information requested for the facility’s individual owner or for the representative authorized to sign this report for the facility’s corporate or governmental owner. In the case of a non-Title V source, this is typically the person to whom the department will direct correspondence related to air pollutant emissions units at the facility.

Please provide the nine-digit postal zip code.

**or**

**(Title V Source) Responsible Official**

Enter all the information requested for the Title V source’s Responsible Official that will be signing this report. If there is more than one Responsible Official at the Title V source, it is not necessary that this person be the Primary Responsible Official. Please provide the nine-digit postal zip code.

2. **Report Contact** -Enter all the information requested for the person to be contacted regarding this annual operating report. If the owner or operator used a consultant to complete this report and has no objection to the department contacting the consultant directly, this person may be that consultant. If this field is left blank, the department will contact the owner or authorized representative identified in Field 1 regarding any questions related to this report.

3. **Facility Contact** - Enter all the information requested for the person to be contacted regarding day-to-day operations of air pollutant emissions units at the facility. This is typically, but not necessarily, a person stationed at or in close proximity to the facility, such as the plant manager or environmental coordinator. This is the person the department will contact for access to the facility to conduct compliance inspections or observe stack tests.

## E. SIGNATURE

This statement should be signed by the owner or authorized representative named in Field 1 of Subsection I.D. of the form or, if the report is for a Title V source, Responsible Official Certification is required.

**Note:** Attach separate pages as needed to provide any additional information that you feel would be helpful in reporting your annual emissions.

# **II. EMISSIONS UNIT REPORT**

A separate Section II of the form (Emissions Unit Report) must be completed for each emissions unit at the facility, except emissions units at non-Title V sources that are exempt from permitting pursuant to Rule 62-4.040 or 62-210.300(3), F.A.C., insignificant emissions units at Title V sources, and units for which emissions reporting is not practical such as units that emit only radionuclides or units that emit only fugitive emissions that are not reasonably quantifiable. If units, for which emissions reporting is not required, appear in EAOR or a prefilled hardcopy of the AOR form, please contact the DEP Division of Air Resource Management at [eaor@dep.state.fl.us](mailto:eaor@dep.state.fl.us). Note: this section of the form must be completed for all “unregulated” emissions units, as defined in the instructions to DEP form number 62-210.900(1), except any such units for which emissions reporting is not practical as set forth above.

An Emissions Unit Report must be completed for any reportable emissions unit that had active status during any part of the reporting year, even if it was permanently shut down during the year. If a reportable emissions unit operated during the reporting year, but had no reportable emissions (i.e., no pollutants subject to emission limiting standards and no pollutants emitted at or above threshold levels), only Subsections II.A. through II.E.(1) must be completed. However, if applicable, note that the pollutant emissions are “Below Threshold”.

The most appropriate breakdown of process and production operations, and other pollutant-emitting activities, at a facility into separate emissions units is normally determined through the permitting process and, once established, shall be adhered to in completing this report. Permitting offices may establish separate “emissions units” solely for the purpose of reporting emissions on the annual operating report, especially fugitive emissions. For example, an emissions unit may be defined as representing facility-wide fugitive emissions resulting from equipment leaks or maintenance painting. Similarly, an emissions unit may be defined as representing those emissions that escape capture by a primary emissions unit’s vent hood and are released directly to the atmosphere without passing through the primary unit’s control equipment. Any questions regarding the manner in which emissions units have been defined by the department should be discussed with the appropriate permitting office.

In the case of a relocatable facility which operated at more than one site during the reporting year, one Section II of the form should be completed for the total operation, for each emissions unit.

## A. EMISSIONS UNIT INFORMATION

1. **Emissions Unit Description** - Enter a brief description of the emissions unit addressed in this Emissions Unit Report (i.e., on this Section II of the annual operating report package). Include any unit designations and other information helpful in describing the emissions unit and differentiating it from other emissions units at the facility.

2. **Emissions Unit ID** - If known, enter the DEP three-digit emissions unit identification number assigned by the department to the emissions unit addressed in this report.

3. **Emissions Unit Classification** **(DEP Use Only)**

4. **Operated during Year?** - Enter a "Y" if the emissions unit operated during any part of the reporting year (January 1 - December 31); an "N" if it did not. If the emissions unit did not operate, the remaining subsections of the Emissions Unit Report need not be completed.

5. **DEP Permit and/or PPS Number, if known (Optional)** – If the emissions unit is currently permitted, please enter the DEP Permit Number or Power Plant Siting (PPS) Number, if known.

6. **Emissions Unit Status** - Enter, from the list below, the emissions unit status code valid as of December 31 of the reporting year:

Code Status

A Active - Emissions unit in operation, on standby status, temporarily shut down (including any shutdown while undergoing modification), or on long-term reserve shutdown. This code indicates an existing emissions unit which has not been permanently shut down, though it may not be operating at the time of this report.

C Construction - Emissions unit in planning stage or undergoing initial construction; including reconstruction. This code indicates a proposed new emissions unit, or an existing emissions unit which has been or will be shut down in its entirety for reconstruction.

I Inactive - Emissions unit permanently shut down; permit surrendered or expired.

7. **Emissions Unit Startup Date** - If, during the reporting year, the emissions unit commenced operation following construction or reconstruction, enter the startup date. Do not enter, as a startup date, the date on which the emissions unit resumed operations following a temporary shutdown, such as a long-term reserve shutdown. If the emissions unit commenced operation prior to the reporting year but the startup date is missing, enter the startup date, if known.

8. **Long-term Reserve Shutdown Date** - If the emissions unit has been placed on long-term reserve shutdown, enter the shutdown date. Do not enter, as a long-term reserve shutdown date, the date on which an emissions unit ceased operations for a planned temporary shutdown period or unplanned outage.

9. **Permanent Shutdown Date** – If, during the reporting year, the emissions unit permanently ceased operation, enter the shutdown date. Do not enter, as a permanent shutdown date, the date on which an emissions unit ceased operations for a long-term reserve shutdown, planned temporary shutdown period, or unplanned outage, unless that date also turned out to be the permanent shutdown date.

## B. EMISSION POINT/CONTROL INFORMATION

1. **Emission Point Type** - An emission point is a stack, vent, or other identifiable location at which air pollutants are discharged into the atmosphere. The emissions unit addressed in this Emissions Unit Report may have a single emission point, share an emission point with one or more other emissions units, have multiple emission points, or have no true emission point (e.g., an emissions unit with fugitive emissions only). Enter, from the list below, the type of emission point associated with the emissions unit.

Type Description of Emission Point

1 A single emission point serving a single emissions unit (e.g., a single stack serving a single boiler). The emission point is not shared with another emissions unit, nor does the emissions unit have other emission points.

2 An emission point serving two or more emissions units capable of simultaneous operation (e.g., a single stack serving two boilers).

3 A configuration of multiple emission points serving a single emissions unit (e.g., a series of building vents serving a single enclosed process operation, a group of exhaust stacks serving a collectively-regulated bank of combustion turbines, or a collection of roof vents serving a collectively-regulated group of volatile organic liquid storage tanks).

4 No true emission point (e.g., fugitive emissions from a coal pile or equipment leaks)

2. **Description of Control Equipment** - Enter a brief description of each emission control device or system associated with the emissions unit addressed in this report (e.g., centrifugal wet scrubber, type N roto-clone, etc.). If not applicable, leave blank.

## C. EMISSIONS UNIT OPERATING SCHEDULE INFORMATION

1. **Average Annual Operation** - Enter the average number of hours per day (to the nearest hour) and days per week that the emissions unit operated during the year. The average number of hours per day may be determined by dividing the total hours of operation (Field 2) by the number of days during which the emissions unit operated for at least one hour. The average number of days per week may be determined by dividing the total number of days during which the emissions unit operated (for at least one hour) by the number of weeks during which the emissions unit operated for at least one hour. If data are not available to compute these averages, "typical" values may be used. For example, if the emissions unit normally operated one shift per day, Monday through Friday, enter "8" hours per day and "5" days per week. If the emissions unit did not operate according to a typical schedule; e.g., a power generator operated as a "peaking" unit, enter the maximum hours per day and days per week that the emissions unit operated during the year.

2. **Total Operation during Year** - Enter the total number of hours per year that the emissions unit operated.

## D. EMISSIONS UNIT COMMENT

Enter any comments about the emissions unit addressed in this Emissions Unit Report, including any comments helpful in explaining any information entered or updated on this report.

## E. EMISSIONS INFORMATION BY PROCESS/FUEL

This section of the form provides information on the emissions associated with each of the raw materials, processes, fuels, stored volatile organic liquids, products and other permitted activities associated with the emissions unit addressed on this Emissions Unit Report. The information shall be provided in a format consistent with the EPA Source Classification Code (SCC) system. The U.S. EPA uses SCCs to classify different types of activities that generate emissions. Each SCC represents a unique source category-specific process or function that emits air pollutants. The SCCs are used as a primary identifying data element in EPA’s WebFIRE database (see <https://www.epa.gov/electronic-reporting-air-emissions/webfire>), where SCCs are used to link emissions factors to an emission process. In general, SCCs use a hierarchical system in which the classification of the emissions process becomes increasingly more specific with each of the four levels (starting on the left of the code and moving from left to right). EPA’s searchable database containing the most updated SCC list can be found at [www.epa.gov/scc](http://www.epa.gov/scc). A separate Subsection II.E. of the form must be completed for each process or fuel usage (i.e., for each SCC) which contributes to emissions of any pollutant required to be reported. For example, if the emissions unit addressed on this Emissions Unit Report has three SCCs, all of which have non-zero emission factors for one or more reportable pollutants, three Subsection II.E.’s should be completed.

**Note:** Where multiple SCC’s are involved, it may not be possible to calculate the emissions of every pollutant for each SCC separately. For example, some of the emissions factors for units such as kilns are based on the combined emissions from both the process itself and the in-process fuel that is used. In such case, the total emissions from the emissions unit should be reported for the principal SCC (e.g., the process SCC for a kiln), and an explanatory note should be provided in the Emissions Calculation field.

### **(1) PROCESS/FUEL INFORMATION**

For each SCC (i.e., for each Subsection II.E.), Fields 1-8 of Subsection II.E.(1), as applicable, should be completed, and for each reportable pollutant associated with the SCC, Fields 1-4 of Subsection II.E.(2), as applicable, should be completed. For example, if an emissions unit emits PM10, PM2.5, sulfur dioxide, nitrogen oxides, carbon monoxide, and volatile organic compounds in reportable amounts, a set of Fields 1 through 4 of Subsection II.E.(2) should be completed for each of those six pollutants associated with the SCC addressed in Subsection II.E.(1).

1. **SCC** (**Source Classification Code**) – If using the DEP pre-filled AOR form, the SCC field is pre-filled, however you can invalidate an SCC if it is no longer applicable. Also, an SCC may be added if needed. A reason for invalidating or adding an SCC must be given in the comment field.

2. **Description of Process or Type of Fuel** - Enter a description of the type of material handling, process, fuel burning, or production operation that is addressed in this Subsection II.E. of the form, keeping in mind that a separate Subsection II.E. is required for each permitted operation or activity (i.e., each SCC) to which emission factors are related. Use component breakdowns consistent with those used in EPA’s WebFIRE database. Taking the example of a cement production kiln, two processes to which emissions are related are the cement kiln itself (where emissions are related to tons of cement produced) and the coal burned in the cement kiln as in-process fuel (where emissions are related to tons burned). Each should be listed in a separate Subsection II.E. Another example is a boiler which burns both fuel oil and natural gas. The two listings would be for the oil used in the boiler (where emissions are related to thousand gallons burned) and natural gas used in boiler (where emissions are related to million cubic feet burned). The prefilled description corresponds to the SCC in Field 1. If the description appears applicable, report data in Fields 3-8 as required. Any usage of used oil (on-spec or off-spec) should be specifically listed with rates reported in Field 3. Entry of at least one process or fuel type is required for each emissions unit.

3. **Annual Process or Fuel Usage Rate** - Enter the annual process, fuel, or raw material usage rate corresponding to the process or fuel type identified in Field 2. The rate must be in terms of the units used in Field 4.

4. **SCC Unit** - Enter the applicable SCC unit of measurement for the annual SCC rate information given in Field 3. If not using a prefilled report, contact the Department to ensure use of the proper SCC unit.

5. **Fuel Average % Sulfur** - If the SCC relates to combustion of coal, oil, process gas, or LPG, enter on a weight-percent basis the average fuel sulfur content used during the year, to the nearest 0.01 percent accuracy (or greater accuracy if available).

6. **Fuel Average % Ash** - If the SCC relates to combustion of coal, enter on a weight-percent basis the average fuel ash content used during the year, to the nearest 0.1 percent. If ash measurements are not available, a typical value is acceptable.

7. **Fuel Heat Content** - Enter the average as-fired heat content of the fuel used during the year in million Btu per ton (solid fuels), per thousand gallons (liquid fuels), or per million cubic feet (gaseous fuels). The fuel quantity unit should correspond to the SCC unit in Field 4. If heat content measurements are not available, a typical value is acceptable.

8. Comment – Only required if a pre-filled SCC is invalidated or if an SCC is added.

### **(2) EMISSIONS INFORMATION**

For the process or fuel type addressed in this Subsection II.E. of the form, Field 1 of Subsection II.E.(2) must be completed for each air pollutant listed on the EAOR or prefilled form and for any other pollutant which the emissions unit has the potential to emit in a reportable amount, even if the actual emissions for the reporting year were less than such amount. Fields 2-4, as applicable, should be completed for those air pollutants which were actually emitted in a reportable amount for the reporting year. Reportable emissions are defined as follows:

#### Pollutants Subject to Emission-Limiting Standards:

For **any pollutant** that is subject to a numerical emission-limiting standard, either by rule or permit condition, a set of Fields 2-4 should be completed for each such pollutant, for each SCC, even if quantities are small. Pollutants subject to emission-limiting standards are generally marked with an asterisk (\*) on the EAOR form and the computer-generated, partially-prefilled AOR form. This also includes any pollutant which is part of a facility-wide or multi-unit emissions cap.

#### Pollutants Not Subject to Emission-Limiting Standards:

For pollutants as listed below that are emitted from the unit but **not** subject to any numerical emission limiting standards, a set of Fields 2-4 should be completed for each such pollutant, for each SCC, only if the pollutant was emitted from the emissions unit during the reporting year in an amount, by SCC, equal to or greater than the appropriate pollutant-specific threshold listed below. Pollutants need not be reported for any SCC for which the emissions were less than the appropriate threshold.

**Pollutant** **Reporting Threshold by SCC**

Ammonia (NH3) 5.0 tons/year

Carbon monoxide (CO) 5.0 tons/year

Condensable particulate matter (CPM) 5.0 tons/year

Hazardous Air Pollutant (H001 – H189) 1000 pounds/year

For each hazardous air pollutant not subject to an

emission-limiting standard, the reporting requirement

applies only for reporting year 2017 and every third year

thereafter (e.g., for reporting years 2020, 2023, etc.).

Hazardous Air Pollutants, Total (HAPS) 2500 pounds/year

For total hazardous air pollutants not subject to an

emission-limiting standard, the reporting requirement

applies only for reporting year 2017 and every third year

thereafter (e.g., for reporting years 2020, 2023, etc.).

Hydrogen sulfide (H2S) 1000 pounds/year

Lead (PB) 500 pounds/year

(Emissions of lead which occur either as elemental lead

or as a chemical compound containing lead, and reported

as the mass of the lead atoms only.)

Nitrogen oxides (NOX) 5.0 tons/year

Particulate Matter – PM10-Filterable (PM10) 5.0 tons/year

Particulate Matter – PM10-Primary (PM10-PRI) 5.0 tons/year

Particulate Matter – PM2.5-Filterable (PM2.5) 5.0 tons/year

Particulate Matter – PM2.5-Primary (PM2.5-PRI) 5.0 tons/year

Sulfur dioxide (SO2) 5.0 tons/year

Volatile organic compounds (VOC) 5.0 tons/year

1. **Pollutant** - Enter the name or code (as listed above or in Appendix A) of the pollutant addressed on this set of Fields 1-4 of the form. Pollutants that must be addressed include each air pollutant listed on the EAOR or prefilled form. If a pollutant is not listed on the EAOR or prefilled form but is subject to an emission limiting standard or has the potential to be emitted in a reportable amount (even if the actual emissions for the reporting year were less than such amount), it must be entered in this field and reported in accordance with the instructions for this subsection. If no estimate of annual pollutant emissions is given in Field 2, indicate the reason by checking one of the following:

**Below Threshold** - The emissions unit has the potential to emit the listed pollutant in an amount equal to or greater than the reporting threshold, but the actual emissions for the reporting year for the SCC (i.e., the process or fuel type) addressed on this Subsection II.E. of the form were less than the threshold.

**Not Emitted for Current SCC** - In the case of a prefilled pollutant, the emissions unit has the potential to emit the listed pollutant but not as a result of the SCC addressed on this Subsection II.E. of the form.

**Invalid for All SCC** – If this pollutant is no longer emitted by this emissions unit. In the EAOR database, all emission factor information, except the comment, will be erased for this pollutant.

2. **Annual Emissions** - Enter, in tons per year, a best estimate of the actual quantity of the pollutant identified in corresponding Field 1 that was emitted by the emissions unit, for the SCC, during the reporting year. Compute emissions according to the requirements of Rule 62-210.370, F.A.C., (see <https://www.flrules.org/gateway/readFile.asp?sid=0&tid=0&cno=62-210&caid=1088260&type=4&file=62-210.doc>), using the highest ranked applicable method listed in Field 3. An alternative method may be used only if it has been demonstrated to be more accurate than all otherwise applicable higher ranked methods.

Accounting for Soot Blowing Emissions: To the extent quantifiable, include elevated emissions resulting from soot blowing operations, if applicable, in the annual emissions estimate.

Accounting for Startup and Shutdown Emissions: If emissions are determined using a CEMS, include in the annual emissions estimate those emissions measured during startup and shutdown periods, even if no emission limitation applies during such periods. If startup and shutdown emissions are otherwise required by permit to be accounted for on an annual basis, compute such emissions according to the methodology specified by the permit, and include such emissions in the annual emissions estimate. For all other situations, include startup and shutdown emissions in the annual emissions estimate to the extent they can reasonably be quantified. For example, if a control efficiency is assumed in the emissions calculation, and the control device efficiency is known to be less during periods of startup or shutdown, emissions calculations for such periods should be adjusted accordingly. If emissions are inherently higher during startup or shutdown conditions, the annual emissions should reflect the cumulative effect of all startup and shutdown operations on emissions over the course of the year.

Accounting for Fugitive Emissions: If the emissions associated with a permitted emissions unit and SCC are entirely fugitive in nature, they must be reported, to the extent quantifiable, in the same manner as stack emissions (i.e., in accordance with the pollutant reporting criteria of Subsection II.E.(2)). If some of the emissions generated by the process are captured by a collection system and routed through control equipment, while the remainder of the emissions escape capture and are discharged as fugitive emissions, the fugitive component of the emissions should be reported as specified by the permitting office (e.g., by using a separate emissions unit established for such purpose). Fugitive particulate matter emissions resulting from vehicular movement or wind erosion need not be reported unless required by permit.

Documents from the EPA Emission Inventory Improvement Program (EIIP), available at <https://www.epa.gov/air-emissions-inventories/volume-2-point-sources>, describe the emissions estimation procedures for many industries, and also provide guidance on how to incorporate the effects of control device efficiency variations into the emission estimates.

3. **Emissions Method Code** - Enter the code from the following list that best describes the method by which the actual emissions in Field 2 were determined. The methods are listed in rank order of required use in accordance with Rule 62-210.370, F.A.C.

Code Description of Emission Method

1A This entry indicates that the emissions were determined based on emissions measurement using a continuous emissions monitoring system (CEMS).

2 This entry indicates that the emissions were calculated by the use of materials balance and knowledge of the process.

3A This entry indicates that the emissions were calculated using an emission factor based on site-specific data such as stack test data.

3B This entry indicates that the emissions were calculated using a directly applicable emission factor from AP-42 (see <https://www.epa.gov/air-emissions-factors-and-quantification/ap-42-compilation-air-emission-factors>), the EPA WebFIRE system (see <https://cfpub.epa.gov/webfire/>) or other published emissions calculation source.

4 This entry indicates that the emissions were determined based on a similar, but different, process in AP-42, the WebFIRE system or other published emissions calculation source. Code 4 should only be used when no directly applicable emission factor is included in these documents.

5 This entry indicates that the emissions were calculated using an emission factor other than one listed above.

4. **Emissions Calculation** (Required) - Provide all calculations for the emissions reported in Field 2, clearly showing how soot blowing, startup, shutdown, control efficiency, capture efficiency, and fugitive emissions, as applicable, are reflected in the reported totals. Use a separate sheet as needed. If the emissions during soot blowing or startup/shutdown periods are determined by a CEMS and included in the reported totals (please provide a statement confirming this), it is not necessary to provide separate calculations of soot blowing, startup, or shutdown emissions. If the emissions calculation methodology does not follow the Field 3 rank order of required use from Rule 62-210.370, F.A.C., provide a demonstration, as required by the rule, that the alternative approach is more accurate.

# **III. TITLE V SOURCE EMISSIONS FEE CALCULATION**

# **[For Title V Sources Only]**

Column A “Air Pollutant Regulated by Title V Source Permit Limit(s)” - List every pollutant (except for carbon monoxide or greenhouse gases) for which emissions are subject to a numerical limit, including facility or multi-unit emissions caps, in a Title V source permit condition. If listed, each of these pollutants should be reported in at least one Section II, E.(2)1 form or EAOR field. {Note: If the pollutant is subject to a numerical limit in a permit condition, the pollutant will be marked with an “\*” in EAOR, and in the Section II, E.(2)1. field of the computer-generated, partially-prefilled form.} Because of multiple emissions units and/or multiple processes or fuels, a pollutant subject to a numerical limit may be listed many times in Section II. However, each pollutant should only be listed once in Column A for the entire facility.

Column B “Total Annual Air Pollutant Fee Emissions from Facility” (tons) **-** For each pollutant listed in Column A, enter the total annual air pollutant fee emissions from the facility. This is the sum of the reported annual pollutant emissions from each emissions unit at the facility. From each emissions unit, include only the pollutant emissions that are subject to a numerical limit, including facility or multi-unit emissions cap, for that particular emissions unit. {Note: If the pollutant is subject to a numerical limit, the pollutant will be marked with an “\*” in EAOR, and in the Section II, E.(2)1. field of the computer-generated, partially-prefilled form.}

Additional Instructions for HAPS and Individual HAP: For each emissions unit, if total HAPS are subject to a numerical limit, then any individually-regulated HAP should be included in the reported total HAPS fee emissions, and the fee emissions for any individually-regulated HAP should be counted as zero, i.e., double fees are not required for any pollutant. If total HAPS are not subject to a numerical limit, but any individual HAP is subject to a numerical limit, then the fee emissions must be listed for each individual HAP subject to a numerical limit. If these individual HAP are also VOC, and VOC emissions are regulated, these individual HAP fee emissions should not be included in the VOC fee emissions. In Column B, list the facility sum of the regulated air pollutant fee emissions counted for each emissions unit at the facility.

Additional Instructions for PM, PM10, PM2.5: For each emissions unit, if filterable Particulate Matter (PM) is subject to a numerical limit, then PM10 and PM2.5 should be included in that reported PM amount, but any regulated PM10 and PM2.5 fee emissions should be counted as zero, i.e., double fees are not required for any pollutant. If PM is not subject to a numerical limit, but PM10 is subject to a numerical limit, then PM2.5 should be included in the reported PM10 amount, but any regulated PM2.5 fee emissions should be counted as zero. If PM and PM10 are not subject to a numerical limit, but PM2.5 is subject to a numerical limit, then PM2.5 fee emissions should be reported. In Column B, list the facility sum of the regulated air pollutant fee emissions counted for each emissions unit at the facility.

Column C “Adjusted Total Annual Air Pollutant Fee Emissions from Facility” (tons) **–** Adjust the total annual air pollutant fee emissions for the facility for each pollutant (as listed in Column B) as follows: if the amount in Column B is less than 4000 tons/year, enter that amount in Column C; if the amount in Column B is equal to or greater than 4000 tons/year, enter 4000 for the pollutant in Column C.

Sum of Adjusted Total Annual Air Pollutant Fee Emissions (tons) – Add up all of the “Adjusted Total Annual Air Pollutant Fee Emissions from Facility” amounts in Column C.

Fee Factor ($/ton) **–** List the annual emission Fee Factor as specified in Rule 62-213.205, F.A.C.

Emissions Fee ($) **-** Multiply the “Adjusted Total Annual Air Pollutant Fee Emissions” (tons) by the “Fee Factor” (dollars per ton) to calculate the “Emissions Fee” ($).

Annual Title V Source Emissions Fee Due ($) **–** The “Annual Title V Source Emissions Fee Due” shall be the calculated “Emissions Fee”, or $250, whichever is greater. The minimum annual emissions fee for each Title V source is $250.

Penalty and Interest Fee Due (if applicable) **-** Pursuant to Rule 62-213.205(1)(c), F.A.C., If the fee is not postmarked or electronically submitted by April 1 of the year due, the Department shall impose, in addition to the fee, a penalty of 50 percent of the amount of the fee unpaid plus interest on such amount computed in accordance with Section 220.807, F.S.

**Total Due** – Sum of “Annual Title V Source Emissions Fee Due” and any applicable “Penalty and Interest Fee Due”.

## APPENDIX A

## POLLUTANT CODES

**Pollutant Name Code**

Ammonia NH3

Carbon Dioxide CO2

Carbon Dioxide Equivalents/Greenhouse Gases CO2E

Note: Greenhouse gases are the group of following gases (expressed

as Carbon Dioxide Equivalents): carbon dioxide; methane; nitrous

oxide; sulfur hexafluoride, perfluorocarbons; and hydrofluorocarbons.

Carbon Monoxide CO

Dioxins/Furans D/F

(including all tetra- through octa-chlorinated dibenzo-p-dioxins

and dibenzofurans)

Fluorides - Total FL

(Emissions of fluorine which occur either as

elemental fluorine, or as a fluoride compound,

reported as the mass of the fluorine atoms only.)

Halogens, Total TH

Halogens and Hydrogen Halides HHH

(as defined by federal regulation subpart)

Hydrocarbons HC

Hydrocarbons (Non-Methane) NMHC

Hydrocarbons, Total THC

Hydrocarbons, Total Equivalents THCE

Hydrocarbons, Total Volatile TVH

Hydrocarbons plus Nitrogen Oxides HC+NOX

Hydrocarbons (Non-Methane) plus Nitrogen Oxides NMHC+NOX

Hydrofluorocarbons HFCS

Hydrogen Sulfide H2S

Lead - Total PB

(Emissions of lead which occur either as elemental

lead or as a chemical compound containing lead,

reported as the mass of the lead atoms only.)

## APPENDIX A (Continued)

## POLLUTANT CODES

**Pollutant Name Code**

Mercury H114A

(emissions of mercury which occur either as elemental

mercury or as a chemical compound containing mercury,

reported as the mass of the mercury atoms only)

Methane CH4

Municipal waste combustor metals PM

(measured as particulate matter (PM))

Municipal waste combustor acid gases SO2

(measured as sulfur dioxide (SO2) and hydrogen chloride (H106)) H106

Municipal waste combustor organics D/F

(measured as dioxins/furans (D/F))

Municipal solid waste landfill emissions NMOC

(measured as nonmethane organic compounds (NMOC))

Nitrogen Oxides NOX

(including nitrogen dioxide and nitric oxide, expressed as

nitrogen dioxide)

Nitrous Oxide N2O

Organic Compounds, Nonmethane NMOC

Organic Compounds, Total TOC

Organic Compounds, Volatile VOC

(as defined at Rule 62-210.200, F.A.C.)

Particulate Matter, Condensable CPM

(material that is vapor phase at stack conditions, but which condenses

and/or reacts upon cooling and dilution in the ambient air to form solid

or liquid particulate matter immediately after discharge from the stack)

Particulate Matter, Filterable PM

(particles, including all filterable PM10 particles, that are directly-

emitted by a source as a solid or liquid at stack or release conditions

and which can be captured on the filter of a stack test train)

## APPENDIX A (Continued)

## POLLUTANT CODES

**Pollutant Name Code**

PM10, Filterable PM10

(filterable particulate matter, including all filterable PM2.5,

with an aerodynamic diameter equal to or less than 10 microns)

PM10, Primary PM10-PRI

(PM10 + CPM)

PM2.5, Filterable PM2.5

(filterable particulate matter with an aerodynamic diameter

equal to or less than 2.5 microns)

PM2.5, Primary PM2.5-PRI

(PM2.5 + CPM)

Perfluorocarbons PFCS

Reduced Sulfur Compounds RSC

(hydrogen sulfide, carbonyl sulfide, and carbon disulfide)

Reduced Sulfur, Total TRS

(hydrogen sulfide, methyl mercaptan, dimethyl sulfide, and

dimethyl disulfide)

Sulfur Dioxide SO2

Sulfuric Acid Mist SAM

## APPENDIX A (Continued)

## POLLUTANT CODES

**Additional Hazardous Air Pollutants**

**Pollutant Name CAS Number Code**

Hazardous Air Pollutants, Total HAPS

Hazardous Air Pollutants, Total Metals HAPM

Hazardous Air Pollutants, Total Selected Metals TSM

Hazardous Air Pollutants, Total Non-Mercury Metals HAPM-NOHG

Hazardous Air Pollutants, Total Organic ORGHAP

Hazardous Air Pollutants, Total Volatile VOHAP

BTEX HAPS (Benzene, Toluene, Ethyl benzene, and Xylene) BTEX

Acetaldehyde 75-07-0 H001

Acetamide 60-35-5 H002

Acetonitrile 75-05-8 H003

Acetophenone 98-86-2 H004

2-Acetylaminofluorene 53-96-3 H005

Acrolein 107-02-8 H006

Acrylamide 79-06-1 H007

Acrylic acid 79-10-7 H008

Acrylonitrile 107-13-1 H009

Allyl chloride 107-05-1 H010

4-Aminobiphenyl 92-67-1 H011

Aniline 62-53-3 H012

o-Anisidine 90-04-0 H013

Antimony Compounds H014

(including antimony and any unique chemical

substance that contains antimony as part of

that chemical’s infrastructure)

Antimony H014A

(emissions of antimony which occur either as

elemental antimony or as a chemical compound

containing antimony, reported as the mass of the

antimony atoms only)

Arsenic Compounds (inorganic including arsine) H015

(including arsenic and any unique chemical

substance that contains arsenic as part of

that chemical’s infrastructure)

Arsenic H015A

(emissions of arsenic which occur either as

elemental arsenic or as a chemical compound

containing arsenic, reported as the mass of the

arsenic atoms only)

Asbestos 1332-21-4 H016

## APPENDIX A (Continued)

## POLLUTANT CODES

**Additional Hazardous Air Pollutants**

**Pollutant Name CAS Number Code**

Benzene (including benzene from gasoline) 71-43-2 H017

Benzidine 92-87-5 H018

Benzotrichloride 98-07-7 H019

Benzyl chloride 100-44-7 H020

Beryllium Compounds H021

(including beryllium and any unique chemical

substance that contains beryllium as part of

that chemical’s infrastructure)

Beryllium H021A

(emissions of beryllium which occur either as

elemental beryllium or as a chemical compound

containing beryllium, reported as the mass of the

beryllium atoms only)

Biphenyl 92-52-4 H022

Bis(2-ethylhexyl)phthalate (DEHP) 117-81-7 H023

Bis(chloromethyl)ether 542-88-1 H024

Bromoform 75-25-2 H025

1,3-Butadiene 106-99-0 H026

Cadmium Compounds H027

(including cadmium and any unique chemical

substance that contains cadmium as part of

that chemical’s infrastructure)

Cadmium H027A

(emissions of cadmium which occur either as

elemental cadmium or as a chemical compound

containing cadmium, reported as the mass of the

cadmium atoms only)

Calcium cyanamide 156-62-7 H028

(Reserved)

Captan 133-06-2 H030

Carbaryl 63-25-2 H031

Carbon disulfide 75-15-0 H032

Carbon tetrachloride 56-23-5 H033

Carbonyl sulfide 463-58-1 H034

Catechol 120-80-9 H035

Chloramben 133-90-4 H036

Chlordane 57-74-9 H037

Chlorine 7782-50-5 H038

## APPENDIX A (Continued)

## POLLUTANT CODES

**Additional Hazardous Air Pollutants**

**Pollutant Name CAS Number Code**

Chloroacetic acid 79-11-8 H039

2-Chloroacetophenone 532-27-4 H040

Chlorobenzene 108-90-7 H041

Chlorobenzilate 510-15-6 H042

Chloroform 67-66-3 H043

Chloromethyl methyl ether 107-30-2 H044

Chloroprene 126-99-8 H045

Chromium Compounds H046

(including chromium and any unique chemical

substance that contains chromium as part of

that chemical’s infrastructure)

Chromium H046A

(emissions of chromium which occur either as

elemental chromium or as a chemical compound

containing chromium, reported as the mass of the

chromium atoms only)

Chromium III H046III

(emissions of chromium which occur either as

elemental chromium or as a chemical compound

containing chromium, reported as the mass of the

trivalent chromium atoms only)

Chromium VI H046VI

(emissions of chromium which occur either as

elemental chromium or as a chemical compound

containing chromium, reported as the mass of the

hexavalent chromium atoms only)

Cobalt Compounds H047

(including cobalt and any unique chemical

substance that contains cobalt as part of

that chemical’s infrastructure)

Cobalt H047A

(emissions of cobalt which occur either as

elemental cobalt or as a chemical compound

containing cobalt, reported as the mass of the

cobalt atoms only)

Coke Oven Emissions H048

Cresols/Cresylic acid (isomers and mixture) 1319-77-3 H049

## APPENDIX A (Continued)

## POLLUTANT CODES

**Additional Hazardous Air Pollutants**

**Pollutant Name CAS Number Code**

o-Cresol 95-48-7 H050

m-Cresol 108-39-4 H051

p-Cresol 106-44-5 H052

Cumene 98-82-8 H053

Cyanide Compounds H054

(including cyanide and any unique chemical

substance that contains cyanide as part of

that chemical’s infrastructure. X'CN, where

X = H' or any other group where a formal

dissociation may occur; for example,

KCN or Ca(CN)2.)

Cyanide H054A

(emissions of cyanide which occur either as

elemental cyanide or as a chemical compound

containing cyanide, reported as the mass of the

cyanide atoms only)

2,4-D (2,4-Dichlorophenoxyacetic acid), salts and esters 94-75-7 H055

DDE (Dichlorodiphenyldichloroethylene) 3547-04-4 H056

Diazomethane 334-88-3 H057

Dibenzofurans 132-64-9 H058

1,2-Dibromo-3-chloropropane 96-12-8 H059

Dibutylphthalate 84-74-2 H060

1,4-Dichlorobenzene(p) 106-46-7 H061

3,3-Dichlorobenzidene 91-94-1 H062

Dichloroethyl ether 111-44-4 H063

(Bis(2-chloroethyl)ether)

1,3-Dichloropropene 542-75-6 H064

Dichlorvos 62-73-7 H065

Diethanolamine 111-42-2 H066

N,N-Diethyl aniline (N,N-Dimethylaniline) 121-69-7 H067

Diethyl sulfate 64-67-5 H068

3,3-Dimethoxybenzidine 119-90-4 H069

Dimethyl aminoazobenzene 60-11-7 H070

3,3-Dimethyl benzidine 1119-93-7 H071

Dimethyl carbamoyl chloride 79-44-7 H072

Dimethyl formamide 68-12-2 H073

1,1-Dimethyl hydrazine 57-14-7 H074

Dimethyl phthalate 131-11-3 H075

Dimethyl sulfate 77-78-1 H076

## APPENDIX A (Continued)

## POLLUTANT CODES

**Additional Hazardous Air Pollutants**

**Pollutant Name CAS Number Code**

4,6-Dinitro-o-cresol, and salts 534-52-1 H077

2,4-Dinitrophenol 51-28-5 H078

2,4-Dinitrotoluene 121-14-2 H079

1,4-Dioxane (1,4-Diethyleneoxide) 123-91-1 H080

1,2-Diphenylhydrazine 122-66-7 H081

Epichlorohydrin (1-Chloro-2,3-epoxypropane) 106-89-8 H082

1,2-Epoxybutane 106-88-7 H083

Ethyl acrylate 140-88-5 H084

Ethyl benzene 100-41-4 H085

Ethyl carbamate (Urethane) 51-79-6 H086

Ethyl chloride (Chloroethane) 75-00-3 H087

Ethylene dibromide (Dibromoethane) 106-93-4 H088

Ethylene dichloride (1,2-Dichloroethane) 10706-2 H089

Ethylene glycol 107-21-1 H090

Ethylene imine (Aziridine) 151-56-4 H091

Ethylene oxide 75-21-8 H092

Ethylene thiourea 96-45-7 H093

Ethylidene dichloride (1,1-Dichloroethane) 75-34-3 H094

Formaldehyde 50-00-0 H095

Glycol ethers H096

(Include glycol ethers and any unique chemical

substance that contains glycol ethers as part of

that chemical’s infrastructure. Include mono-

and di- ethers of ethylene glycol,

diethylene glycol, and triethylene

glycol R-(OCH2CH2)n-OR' where: n = 1,

2, or 3; R = alkyl C7 or less; or R = phenyl or

alkyl substituted phenyl; R' = H or alkyl C7 or

less; or OR' consisting of carboxylic acid ester,

sulfate, phosphate, nitrate, or sulfonate.

Exclude ethylene glycol monobutyl ether

(EGBE, 2-Butoxyethanol – CAS Number 111-76-2).)

Heptachlor 76-44-8 H097

Hexachlorobenzene 118-74-1 H098

Hexachlorobutadiene 87-68-3 H099

Hexachlorocyclopentadiene 77-47-4 H100

Hexachloroethane 67-72-1 H101

Hexamethylene-1,6-diisocyanate 822-06-0 H102

Hexamethylphosphoramide 680-31-9 H103

## APPENDIX A (Continued)

## POLLUTANT CODES

**Additional Hazardous Air Pollutants**

**Pollutant Name CAS Number Code**

Hexane 110-54-3 H104

Hydrazine 302-01-2 H105

Hydrochloric acid 7647-01-0 H106

Hydrochloric acid-Equivalent H106E

Hydrogen fluoride (Hydrofluoric acid) 7664-39-3 H107

Hydroquinone 123-31-9 H108

Isophorone 78-59-1 H109

Lead Compounds H110

(including lead and any unique chemical

substance that contains lead as part of

that chemical’s infrastructure)

Lead PB

(emissions of lead which occur either as elemental

lead or as a chemical compound containing lead,

reported as the mass of the lead atoms only.)

Lindane (all isomers) 58-89-9 H111

Maleic anhydride 108-31-6 H112

Manganese Compounds H113

(including manganese and any unique chemical

substance that contains manganese as part of

that chemical’s infrastructure)

Manganese H113A

(emissions of manganese which occur either as

elemental manganese or as a chemical compound

containing manganese, reported as the mass of the

manganese atoms only)

Mercury Compounds H114

(including mercury and any unique chemical

substance that contains mercury as part of

that chemical’s infrastructure)

Mercury H114A

(emissions of mercury which occur either as

elemental mercury or as a chemical compound

containing mercury, reported as the mass of the

mercury atoms only)

Methanol 67-56-1 H115

Methoxychlor 72-43-5 H116

Methyl bromide (Bromomethane) 74-83-9 H117

Methyl chloride (Chloromethane) 74-87-3 H118

## APPENDIX A (Continued)

## POLLUTANT CODES

**Additional Hazardous Air Pollutants**

**Pollutant Name CAS Number Code**

Methyl chloroform (1,1,1-Trichloroethane) 71-55-6 H119

(Reserved)

Methyl hydrazine 60-34-4 H121

Methyl iodide (Iodomethane) 74-88-4 H122

Methyl isobutyl ketone (Hexone) 108-10-1 H123

Methyl isocyanate 624-83-9 H124

Methyl methacrylate 80-62-6 H125

Methyl tert butyl ether 1634-04-4 H126

4,4-Methylene bis (2-chloroaniline) 101-14-4 H127

Methylene chloride (Dichloromethane) 75-09-2 H128

Methylene diphenyl diisocyanate (MDI) 101-68-8 H129

4,4-Methylenedianiline 101-77-9 H130

Mineral fibers (fine), includes H131

mineral fiber emissions from facilities

manufacturing or processing glass, rock,

or slag fibers (or other mineral derived

fibers) of average diameter 1 micrometer

or less

Naphthalene 91-20-3 H132

Nickel Compounds H133

(including nickel and any unique chemical

substance that contains nickel as part of

that chemical’s infrastructure)

Nickel H133A

(Emissions of nickel which occur either as

elemental nickel or as a chemical compound

containing nickel, reported as the mass of the

nickel atoms only)

Nitrobenzene 98-95-3 H134

4-Nitrobiphenyl 92-93-3 H135

4-Nitrophenol 100-02-7 H136

2-Nitropropane 79-46-9 H137

N-Nitroso-N-methylurea 684-93-5 H138

N-Nitrosodimethylamine 62-75-9 H139

N-Nitrosomorpholine 59-89-2 H140

Parathion 56-38-2 H141

Pentachloronitrobenzene (Quintobenzene) 82-68-8 H142

Pentachlorophenol 87-86-5 H143

Phenol 108-95-2 H144

## APPENDIX A (Continued)

## POLLUTANT CODES

**Additional Hazardous Air Pollutants**

**Pollutant Name CAS Number Code**

p-Phenylenediamine 106-50-3 H145

Phosgene 75-44-5 H146

Phosphine 7803-51-2 H147

Phosphorus 7723-14-0 H148

Phthalic anhydride 85-44-9 H149

Polychlorinated biphenyls (Aroclors) 1336-36-3 H150

Polycyclic organic matter (POM) (includes H151

organic compounds, such as polycyclic

aromatic hydrocarbons (PAH), with more

than one benzene ring, and which have a

boiling point greater than or equal to 100°C)

1,3-Propane sultone 1120-71-4 H152

beta-Propiolactone 57-57-8 H153

Propionaldehyde 123-38-6 H154

Propoxur (Baygon) 114-26-1 H155

Propylene dichloride (1,2-Dichloropropane) 78-87-5 H156

Propylene oxide 75-56-9 H157

1,2-Propylenimine (2-Methyl aziridine) 75-55-8 H158

Quinoline 91-22-5 H159

Quinone 106-51-4 H160

Radionuclides (including radon), a H161

type of atom which spontaneously

undergoes radioactive decay

Selenium Compounds H162

(including selenium and any unique chemical

substance that contains selenium as part of

that chemical’s infrastructure)

Selenium H162A

(emissions of selenium which occur either as

elemental selenium or as a chemical compound

containing selenium, reported as the mass of the

selenium atoms only)

Styrene 100-42-5 H163

Styrene oxide 96-09-3 H164

2,3,7,8-Tetrachlorodibenzo-p-dioxin 1746-01-6 H165

1,1,2,2-Tetrachloroethane 79-34-5 H166

Tetrachloroethylene (Perchloroethylene) 127-18-4 H167

Titanium tetrachloride 7550-45-0 H168

Toluene 108-88-3 H169

## APPENDIX A (Continued)

## POLLUTANT CODES

**Additional Hazardous Air Pollutants**

**Pollutant Name CAS Number Code**

2,4-Toluene diamine 95-80-7 H170

2,4-Toluene diisocyanate 584-84-9 H171

o-Toluidine 95-53-4 H172

Toxaphene (chlorinated camphene) 8001-35-2 H173

1,2,4-Trichlorobenzene 120-82-1 H174

1,1,2-Trichloroethane 79-00-5 H175

Trichloroethylene 79-01-6 H176

2,4,5-Trichlorophenol 95-95-4 H177

2,4,6-Trichlorophenol 88-06-2 H178

Triethylamine 121-44-8 H179

Trifluralin 1582-09-8 H180

2,2,4-Trimethylpentane 540-84-1 H181

Vinyl acetate 108-05-4 H182

Vinyl bromide 593-60-2 H183

Vinyl chloride 75-01-4 H184

Vinylidene chloride (1,1-Dichloroethylene) 75-35-4 H185

Xylenes (isomers and mixtures) 1330-20-7 H186

o-Xylenes 95-47-6 H187

m-Xylenes 108-38-3 H188

p-Xylenes 106-42-3 H189