**PURPOSE FOR EMISSION POINT INFORMATION FORM:**

The information in this form will provide Emission Point dispersion parameters for any new emission points or any revised emission points. This information is required for all non-exempt sources, regardless of whether or not a particular source was evaluated using air dispersion modeling.

Source data requirements are based on the appropriate source classification. Each emission source is classified as a point, area, volume, flare, area circular, area poly, or open pit source. Contact the Bureau of Air Quality (BAQ) for clarification of data requirements. Include source on facility site map. Also, a picture of area or volume sources would be helpful but is not required. A user generated document or spreadsheet may be substituted in lieu of this form provided the required emission point parameters are submitted in the same order as presented in these tables.

**ITEM BY ITEM INSTRUCTIONS:**

You may add additional rows in a table 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.

**A. Application Identification**

Please provide the information requested in this table.

1. *Facility Name:* The name under which this particular facility or plant does business.

2. *SC Air Permit Number:* The existing South Carolina (SC) Air Permit Number assigned by the BAQ can be found on an existing permit. If the facility is new or does not currently have an eight digit SC Air Permit Number, this item should be left blank.

3. *Application Date:* Please ensure that the *Application Date* is consistent throughout the permit application package.

4. *Project Description:* Provide a brief description of the project associated with this submittal.

**B. Facility Information**

Please provide the information requested in this table.

1. *Is your company a Small Business?* Select Yes or No. (Because numerous definitions of small businesses exist, Congress created its own for the purposes of the Clean Air Act. Please refer to the Department's SC Small Business Environmental Assistance Program website at <http://www.scdhec.gov/HomeAndEnvironment/BusinessesandCommunities-GoGreen/SmartBusiness/SBEAP/> )

2. *Is Bureau assistance being requested?* Select Yes or No. Leave blank if the facility is not a small business or small government facility (contact BAQ for questions about what types of government facilities qualify).

3. *Are other facilities collocated?* Select Yes or No.

4. If yes, providethe permit numbers of collocated facilities(the existing SC Air Permit Number assigned by the BAQ for the facilities that are collocated).

**C. Air Contact**

Please identify the Air Contact who prepared the air compliance analysis and provide the contact information requested in this table.

**D. Emission Point Dispersion Parameters**

Please note the information in this table before providing dispersion parameter data in Sections E-K.

**NOTE: For all Emission Points described below, list the unique Emission Point ID for that source. Use the same emission point ID as shown in the current permit/provided in the last submittal. If the emission point ID has changed from what was previously submitted, please list the current emission point ID and include the old/previous emission point ID in parenthesis.**

**E. Point Source Data**

Please provide the following source (stack) dispersion parameters for all non-exempt point sources, such as stacks, chimneys, exhaust fans, and vents. All bypass scenarios should be included.

*Emission Point ID:* List the unique emission point/stack ID for the point source. Use the same emission point/stack IDs used in the current permit,

*Description/Name:* Include a description or name for each emission point/stack ID (e.g., Process Furnace, Boiler 1, Aux Boiler, etc.).

*UTM Coordinates (m):* The coordinates, in meters, should be based on NAD83 projection. They must be provided for each emission point location. UTM coordinates can be obtained from, among other sources, a USGS Topographic Map. All of SC is in UTM zone 17.

*Release Height – AGL (ft):* The actual height of the emission point, in feet above grade (ground) where the pollutant is being released into the air. For emission points located on building tops, this height must include the height of the building plus the height of the stack.

*Temperature (*º*F):* The emission point gas exit temperature in degrees Fahrenheit (ºF). If the exit temperature is considered ambient, input "amb" or "ambient" here.

*Exit Velocity (ft/sec):*  The emission point gas exit velocity in feet per second (ft/sec).

*Inside Diameter (ft):* The interior diameter, in feet, of the emission point. For rectangular stacks, indicate the rectangular dimensions separated by a comma.

*Discharge Orientation:* Indicate if the emission point vents vertically, horizontally (90 degrees), or at some other angle from vertical (e.g., 45 degrees).

*Rain Cap (Y/N):* Indicate whether or not the stack has a rain cap (Yes or No).

*Distance to Nearest Property Boundary (ft):* The shortest distance, in feet, between the plant property boundary and the emission point. Provide a plot plan showing the emission point location and distances to plant boundaries. This plot plan should be drawn to scale and should include building heights so that the Good Engineering Practice stack height and downwash requirements can be verified. If the emission point is included in refined modeling being submitted, input "see modeling files" here.

*Building Height (ft):* The height, in feet, of the structure most likely to obstruct the emission plume based on Good Engineering Practice (GEP) stack height analysis as described in the SC Modeling Guidelines for Air Quality Permits. If there are several structures near the emission point, include a plot plan showing emission point location as well as length, width, and height of each nearby building and input "see plot plan" here. If refined modeling is being submitted, input "see modeling files" here.

*Building Length (ft):* The length, in feet, of the structure most likely to obstruct the emission plume based on GEP stack height analysis as described in the SC Modeling Guidelines for Air Quality Permits. If there are several structures near the emission point, include a plot plan showing emission point location as well as length, width, and height of each nearby building and input "see plot plan" here. If refined modeling is being submitted, input "see modeling files" here.

*Building Width (ft):* The width, in feet, of the structure most likely to obstruct the emission plume based on GEP stack height analysis as described in the SC Modeling Guidelines for Air Quality Permits. If there are several structures near the emission point, include a plot plan showing emission point location as well as length, width, and height of each nearby building and input "see plot plan" here. If refined modeling is being submitted, input "see modeling files" here.

**F. Area Source Data**

Please provide the following source dispersion parameters for area sources, such as storage piles and other sources that have low level or ground level releases with no plume rise, that are rectangular areas. If the area source is an area circular (AREACIRC) or area poly (AREAPOLY) source, it would be included in those tables and not in this table.

*Emission Point ID:* List the unique emission point ID for the area source. Use the same emission point IDs used in the current permit, if applicable.

*Source Description/Name:* Include a description or name for each emission point ID (e.g., Grinding Fugitives).

*UTM Coordinates (m):* The coordinates, in meters, should be based on NAD83 projection. They must be provided for the center of each area source unless the area source was evaluated using refined modeling. For refined modeling, the coordinates for the southwest vertex must be provided. UTM coordinates can be obtained from, among other sources, a USGS Topographic Map. All of SC is in UTM zone 17.

*Release Height – AGL (ft):* The actual height of the source, in feet above grade (ground) where the pollutant is being released into the air.

*Easterly Length (ft):* The length, in feet, of the easterly dimension of the area source.

*Northerly Length (ft):* The length, in feet, of the northerly dimension of the area source.

*Angle from North:* The directional angle (in degrees) in which the area source is oriented from North.

*Distance to Nearest Property Boundary (ft):* The shortest distance, in feet, between the plant property boundary and the center of the area. Provide a plot plan showing the area source location and distances to plant boundaries. This plot plan should be drawn to scale. If the emission point is included in refined modeling being submitted, input "see modeling files" here.

**G. Volume Source Data**

Please provide the following source dispersion parameters for all volume sources. Volume sources differ from area sources in that they have an initial dispersion vertical depth prior to release.

*Emission Point ID:* List the unique emission point ID for the volume source. Use the same emission point IDs used in the current permit, if applicable.

*Description/Name:* Include a description or name for each emission point ID (e.g., Paint Building Fugitives).

*UTM Coordinates (m):* The coordinates, in meters, should be based on NAD83 projection. They must be provided for the center of each volume source. UTM coordinates can be obtained from, among other sources, a USGS Topographic Map. All of SC is in UTM zone 17.

*Release Height – AGL (ft):* The actual height of the source, in feet above grade (ground) where the pollutant is being released into the air. This is usually the height above ground of the center of the volume source.

*Initial Horizontal Dimension (ft):* The length, in feet, of the initial horizontal dimension of the volume source. See the SC Modeling Guidelines for Air Quality Permits for information on calculating this parameter.

*Initial Vertical Dimension (ft):* The depth, in feet, of the initial vertical dimension of the volume source. See the SC Modeling Guidelines for Air Quality Permits for information on calculating this parameter.

*Distance to Nearest Property Boundary (ft):* The shortest distance, in feet, between the plant property boundary and the edge of the volume. Provide a plot plan showing the emission point location and distances to plant boundaries. This plot plan should be drawn to scale. If the emission point is included in refined modeling being submitted, input "see modeling files" here.

**H. Flare Source Data**

Please provide the following source (stack) dispersion parameters for all flare sources. Flare sources are point sources where the combustion takes place at the tip of the stack.

*Emission Point ID:* List the unique emission point/stack ID for the flare source. Use the same emission point/stack IDs used in the current permit, if applicable.

*Description/Name:* Include a description or name for each emission point/stack ID (e.g., North Flare).

*UTM Coordinates (m):* The coordinates, in meters, should be based on NAD83 projection. They must be provided for each flare emission point location. UTM coordinates can be obtained from, among other sources, a USGS Topographic Map. All of SC is in UTM zone 17.

*Release Height – AGL (ft):* The actual height of the stack, in feet above grade (ground) where the pollutant is being released into the air. For emission points located on building tops, this height must include the height of the building plus the height of the stack.

*Heat Release Rate (cal/s):* The flare heat release rate in calories per second.

*Exit Velocity (m/s):* The emission point gas exit velocity in meters per second (if unknown, use 20 m/s).

*Exit Temperature (K):*  The emission point gas exit temperature in Kelvin (if unknown, use 1273 K).

*Heat Loss Fraction:* The radiative heat loss fraction (default = 0.55).

*Distance to Nearest Property Boundary (ft):* The shortest distance, in feet, between the plant property boundary and emission point. Provide a plot plan showing the emission point location and distances to plant boundaries. This plot plan should be drawn to scale and should include building heights so that the Good Engineering Practice stack height and downwash requirements can be verified. If the emission point is included in refined modeling being submitted, input "see modeling files" here.

*Building Height (ft):* The height, in feet, of the structure most likely to obstruct the emission plume based on GEP stack height analysis as described in the SC Modeling Guidelines for Air Quality Permits. If there are several structures near the emission point, include a plot plan showing emission point location as well as length, width, height of each nearby building and input "see plot plan" here. If refined modeling is being submitted, input "see modeling files" here.

*Building Length (ft):* The length, in feet, of the structure most likely to obstruct the emission plume based on GEP stack height analysis as described in the SC Modeling Guidelines for Air Quality Permits. If there are several structures near the emission point, include a plot plan showing emission point location as well as length, width, height of each nearby building and input "see plot plan" here. If refined modeling is being submitted, input "see modeling files" here.

*Building Width (ft):* The width, in feet, of the structure most likely to obstruct the emission plume based on GEP stack height analysis as described in the SC Modeling Guidelines for Air Quality Permits. If there are several structures near the emission point, include a plot plan showing emission point location as well as length, width, height of each nearby building and input "see plot plan" here. If refined modeling is being submitted, input "see modeling files" here.

**I. Area Circular Source Data**

Please provide the following source dispersion parameters for all circular area sources, such as storage piles and other sources that have low level or ground level releases with no plume rise. This source type cannot be used to characterize an area source for a SCREEN3 analysis.

*Emission Point ID:* List the unique emission point ID for the area source. Use the same emission point IDs used in the current permit, if applicable.

*Source Description/Name:* List the unique name of the circular area source to aid in identification (e.g., Raw Material Storage Pile A).

*UTM Coordinates (m):* The coordinates, in meters, should be based on NAD83 projection. They must be provided for the center of each circular area source. UTM coordinates can be obtained from, among other sources, a USGS Topographic Map. All of SC is in UTM zone 17.

*Release Height - AGL (ft):* The actual height, in feet above grade (ground), where the pollutant is being released into the air.

*Radius of Area (ft):* The radius of the circular area in feet.

*Distance to Nearest Property Boundary (ft):* The shortest distance, in feet, between the plant property boundary and the center of the circular area source. Provide a plot plan showing the area source location and distances to plant boundaries. This plot plan should be drawn to scale. If the emission point is included in refined modeling being submitted, input "see modeling files" here.

**J. Area Poly Source Data**

Please provide the following source dispersion parameters for all polygonal area sources, such as storage piles and other sources that have low level or ground level releases with no plume rise. This source type is used only for evaluation using refined modeling.

*Emission Point ID:* List the unique emission point ID for the area poly source. Use the same emission point IDs used in the current permit, if applicable.

*Source Description/Name/Area (ft2):* List the unique name of the area poly source to aid in identification (e.g., Raw Material Storage Pile A). Also include the area in square feet of the footprint of the area poly source.

*Release Height – AGL (ft):* The actual height, in feet above grade (ground), where the pollutant is being released into the air.

*UTM Coordinates (m):* The coordinates, in meters, for each vertex should be based on NAD83 projection. Table 2 is provided if more than four vertices are needed and this table may be duplicated as necessary to accommodate all of the vertices. The starting vertex coordinates may be input along with “see modeling files” in place of the rest of the vertices. UTM coordinates can be obtained from, among other sources, a USGS Topographic Map. All of SC is in UTM zone 17.

**K. Open Pit Source Data**

Please provide the following source dispersion parameters for all open pit sources, such as rock quarries, where fugitive emissions are generated below ground level of the surrounding terrain and the shape (footprint) is approximately rectangular. This source type is used only for evaluation using refined modeling.

*Emission Point ID:* List the emission source ID for the associated open pit source. Use the same emission unit IDs used in the current permit, if applicable.

*Source Description/Name:* List the unique name of the area source to aid in identification (e.g., South Quarry).

*UTM Coordinates (m):* The coordinates, in meters, should be based on NAD83 projection. They must be provided for the southwest corner of each open pit source. UTM coordinates can be obtained from, among other sources, a USGS Topographic Map. All of SC is in UTM zone 17.

*Release Height – AGL (ft):* The average release height, in feet above the bottom of the pit, where the pollutant is being released into the air.

*Easterly Length (ft):* The length, in feet, of the easterly dimension of the open pit source.

*Northerly Length (ft):* The length, in feet, of the northerly dimension of the open pit source.

*Volume (ft3):* The volume of the open pit in cubic feet.

*Angle from North (deg):* The directional angle (in degrees) in which the open pit source is oriented from North.

**L. Emission Rates**

Please list the requested emission information for all sources included above.

*Emission Point ID:* List the emission point ID for each emission.

*Pollutant Name:* List the name (or chemical symbol) of the pollutant as listed in the applicable regulation(s) for each pollutant addressed. Examples: sulfur dioxide, NOx, methylene chloride.

*CAS #:* The Chemical Abstracts Service number for each Standard No. 8 (toxic) pollutant is required (except for those Standard 8 pollutants that do not have a CAS #; also leave blank for Standard No. 2 and Standard No. 7 pollutants).

*Emission Rate (lb/hr):* The maximum hourly emission rate for each pollutant.

*Same as Permitted?:* Select Yes or No. Are the emissions evaluated for the air compliance demonstration the same as the permitted emission rates? Any difference between the evaluated rate and the permitted rate must be explained in the application report.

*Controlled or Uncontrolled*: Are the emissions controlled or uncontrolled? Emission rates should be the maximum PTE unless there is a control or permit limit. Then, controlled or permitted rates may be used.

*Averaging Period*: The averaging period corresponding to the applicable regulatory standard (e.g., SO2 3‑hr) for the emission rate listed in the emission rate column. If a pollutant is subject to standards for more than one averaging period, it is possible to list an emission rate for one averaging period on one line with a different emission rate based on a longer term limit applicable to a different (i.e., longer) averaging period on another line. [Note: Ton per year emissions can only be averaged to obtain lb/hr values if emissions are based on the facility operating 8,760 hrs/year or, if there is an annual limit, the ton per year emissions can be used to average the emissions for an annual averaging period. Different emission rates for different averaging periods may be allowed providing the averaging method is appropriate to the averaging time.]

*Example 1*: A source has a limit to operate a maximum of 8 hrs/day and has a maximum hourly emission rate of 3 lb/hr of a regulated toxic air pollutant, for a total emission rate of 24 lb/day. The lb/hr rate could be calculated by dividing the daily rate by 24 hrs/day (not the 8 hrs/day of operation), i.e., 24 lbs/day divided by 24 hrs/day = 1 lb/hr. This can be done since the standard for toxic air pollutants is a 24 hour standard.

*Example 2*: If a source has a maximum emission rate of 2 lb/hr of SO2 and has a limit to operate only 10 hrs/day, the lb/hr rate for the 3-hr standard would be the maximum emission rate of 2 lb/hr. Since the standard is less than 24 hours, the emission rate cannot be averaged over the entire day.

*Example 3*: If a source has a permit limit of 4,380 hrs/year of operation and a maximum hourly emission rate of 10 lb/hr, then an averaged, annual lb/hr rate for demonstrating compliance with an annual standard can be calculated by multiplying the maximum hourly rate of 10 lb/hr by 4,380/8,760 = 5 lb/hr. In this example, the appropriate emission rate for demonstrating compliance for an averaging period less than annual would be the maximum hourly rate of 10 lb/hr, unless a limit corresponding to a smaller averaging period is also adopted (e.g., a 12 hour per day limit for a 24-hr average standard).

| **A. APPLICATION IDENTIFICATION** | |
| --- | --- |
| 1. Facility Name: | |
| 2. SC Air Permit Number (if known; 8-digits only):      - | 3. Application Date: |
| 4. Project Description: | |

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| --- | --- |
| **B. FACILITY INFORMATION** | |
| 1. Is your company a Small Business?  Yes  No | 2. If a Small Business or small government facility, is Bureau assistance being requested?  Yes  No |
| 3. Are other facilities collocated for air compliance?  Yes  No | 4. If Yes, provide permit numbers of collocated facilities: |

|  |  |  |  |
| --- | --- | --- | --- |
| **C. AIR CONTACT** | | | |
| Consulting Firm Name (if applicable): | | | |
| Title/Position: | Salutation: | First Name: | Last Name: |
| Mailing Address: | | | |
| City: | | State: | Zip Code: |
| E-mail Address: | | Phone No.: | Cell No.: |

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| --- | --- | --- |
| **D. EMISSION POINT DISPERSION PARAMETERS** | | |
| * Source data requirements are based on the appropriate source classification. * Each emission point is classified as a point, area, volume, flare, area circular, area poly, or open pit source. * Contact the Bureau of Air Quality for clarification of data requirements. * Include sources on a scaled site map. Also, a picture of area or volume sources would be helpful but is not required. * A user generated document or spreadsheet may be substituted in lieu of this form provided all of the required emission point parameters are submitted in   the same order, units, etc. as presented in these tables. | | |
| Abbreviations / Units of Measure: | | |
| * AGL = Above Ground Level * cal/s = calories per second * o = Degrees | * oF = Degrees Fahrenheit * ft = feet * ft/s = feet per second | * K = Kelvin * m = meters * UTM = Universal Transverse Mercator |

**Reminder: For all Emission Points, list the unique Emission Point ID for that source. Use the same emission point ID as shown in the current permit and provided in the last submittal (as applicable). If the emission point ID has been changed from what was previously submitted, please list the current emission point ID with the old/previous emission point ID in parenthesis**

| **E. POINT SOURCE DATA** | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emission Point ID | Description/Name | UTM Coordinates  (NAD83) | | Release Height  AGL  (ft) | Temp.  (oF) | Exit  Velocity  (ft/s) | Inside  Diameter  (ft) | Discharge Orienta-tion | Rain Cap?  (Y/N) | Distance To Nearest Property Boundary (ft) | Building | | |
| Easting  (m) | Northing  (m) | Height  (ft) | Length  (ft) | Width  (ft) |
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| **F. AREA SOURCE DATA** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emission Point ID | Description/Name | UTM Coordinates  (NAD83) | | Release Height  AGL  (ft) | Easterly Length  (ft) | Northerly Length  (ft) | Angle From North  (o) | Distance To Nearest Property Boundary  (ft) |
| Easting  (m) | Northing  (m) |
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| **G. VOLUME SOURCE DATA** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Emission Point ID | Description/Name | UTM Coordinates  (NAD83) | | Release Height  AGL  (ft) | Initial Horizontal Dimension σy  (ft) | Initial Vertical  Dimension σz  (ft) | Distance To Nearest Property Boundary  (ft) |
| Easting  (m) | Northing  (m) |
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| **H. FLARE SOURCE DATA** | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emission Point ID | Description/Name | UTM Coordinates  (NAD83) | | Release Height  AGL  (ft) | Heat Release Rate  (cal/s) | Exit  Velocity  (m/s) | Exit Temp.  (K) | Heat Loss Fraction | Distance To Nearest Property Boundary  (ft) | Building | | |
| Easting  (m) | Northing  (m) | Height  (ft) | Length  (ft) | Width  (ft) |
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| **I. AREA CIRCULAR SOURCE DATA** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Emission Point ID | Description/Name | UTM Coordinates  (NAD83) | | Release Height  AGL (ft) | Radius of Area  (ft) | Distance To Nearest Property Boundary  (ft) |
| Easting  (m) | Northing  (m) |
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| **J. AREA POLY SOURCE DATA (Table 1)** | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emission Point ID | Description/Name/Area (ft2) | Release Height  AGL (ft) | UTM Coordinates  (NAD83) | | | | | | | |
| Easting-1  (m) | Northing-1  (m) | Easting-2  (m) | Northing-2  (m) | Easting-3  (m) | Northing-3  (m) | Easting-4  (m) | Northing-4  (m) |
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| **J. AREA POLY SOURCE DATA (Table 2)** | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emission Point ID | UTM Coordinates  (NAD83) | | | | | | | | | |
| Easting  (m) | Northing  (m) | Easting  (m) | Northing  (m) | Easting  (m) | Northing  (m) | Easting  (m) | Northing  (m) | Easting  (m) | Northing  (m) |
|  |  |  |  |  |  |  |  |  |  |  |

| **K. OPEN PIT SOURCE DATA** | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emission Point ID | Description/Name | UTM Coordinates  (NAD83) | | Release Height  AGL (ft) | | Easterly Length  (ft) | | Northerly Length  (ft) | Volume  (ft3) | Angle From North (o) |
| Easting  (m) | Northing  (m) |
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| **L. EMISSION RATES** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Emission Point ID** | **Pollutant Name** | **CAS #** | **Emission Rate**  **(lb/hr)** | **Same as Permitted? (1)** | **Controlled or Uncontrolled** | **Averaging Period** |
|  |  |  |  | Yes  No |  |  |
|  |  |  |  | Yes  No |  |  |
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|  |  |  |  | Yes  No |  |  |
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|  |  |  |  | Yes  No |  |  |

(1) Any difference between the rates used for permitting and the air compliance demonstration must be explained in the application report.