**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.

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

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

**B. Air Contact**

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

**C. Emission Point Dispersion Parameters**

Please note the information in this table before providing dispersion parameter data in Sections D-L.

**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 modeling submittal. If the emission point ID has changed from what was previously submitted, please list the current emission point ID and include the old emission point ID in parenthesis.**

**D. 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.

**E. 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 (Btu/hr):* The flare heat release rate in Btu (British Thermal Units) per hour.

*Exit Velocity (ft/s):* The emission point gas exit velocity in feet per second (if unknown, use 65.5 ft/s).

*Exit Temperature (*o*F):*  The emission point gas exit temperature in Fahrenheit (if unknown, use 1831.7 oF).

*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.

**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.

*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 (optional if area footprint is a square).

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

*Initial Vertical Dimension (ft):* The depth, in feet, of the initial vertical dimension of the area source. (Optional--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 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. 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.

*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.

*Number of Vertices:* The number of vertices used to approximate the circular footprint of the area (Optional—default of 20 used if left blank).

*Initial Vertical Dimension (ft):* The depth, in feet, of the initial vertical dimension of the circular area source. (Optional—calculated the same as for the volume source initial vertical dimension. 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 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.

**H. Area Polygon 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.

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

*UTM Coordinates (m):* The coordinates, in meters, for each vertex should be based on NAD83 projection. The starting vertex coordinates should be included in this table. 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.

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

*Number of Vertices:* The number of vertices (limited to a number between 3 and 20) in the area polygon footprint.

*Area (ft2):*  The area in square feet of the footprint of the area polygon source.

*Distance to Nearest Property Boundary (ft):* The shortest distance, in feet, between the plant property boundary and the center of the area polygon 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.

**I. 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.

*Physical Horizontal Dimension (ft):* The length, in feet, of the actual physical horizontal dimension 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.

*Physical Vertical Dimension (ft):* The depth, in feet, of the actual physical vertical dimension of the volume source.

*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.

**J. 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.

*Description/Name:* List the unique name of the open pit 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.

*Pit 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.

**K. Line Source Data**

Please provide the following source dispersion parameters for all line sources. This source type is used only for evaluation using refined modeling.

*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., Building Roof Vent A).

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

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

*Line Length (ft):* The length, in feet, of the line source.

*Line Width (ft):* The width, in feet, of the line source.

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

**L. Buoyant Line Source Data**

Please provide all of the data for the Line source in Table K and the following source dispersion parameters for all buoyant line sources. This source type may be used for a single buoyant line source or a group (or groups) of buoyant line sources. If only a single buoyant line source is being defined, ignore “average” and plural language in the instructions below. This source type is used only for evaluation using refined modeling. Contact SC BAQ Modeling Section Personnel for more information.

*Average Building Length (ft):* The average length, in feet, of the building(s) where the buoyant line source(s) are located.

*Average Building Height (ft):* The average height, in feet, of the building(s) where the buoyant line source(s) are located.

*Average Building Width (ft):* The average width, in feet, of the building(s) where the buoyant line source(s) are located.

*Average Line Source Width (ft):* The average width, in feet, of the buoyant line source(s).

*Average Building Separation (ft):* The average separation, in feet, of the buildings the buoyant line source(s) are associated with.

*Average Buoyancy Parameter (m4/s3):* The average buoyancy parameter, in meters to the fourth power divided by seconds cubed, of the buoyant line source(s).

**M. 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.

If the instantaneous emission rate is not listed for a particular regulatory standard (e.g. PM10 24-hr), and the emissions for that particular standard are averaged over some given part of the period, the averaging should be included and explained in the application. Examples of this type of averaging are shown below.

*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:       |
| 5. Are other facilities collocated for air compliance? [ ]  Yes [ ]  No | 6. If Yes, provide permit numbers of collocated facilities:       |

|  |
| --- |
| **B. 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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| --- |
| **C. EMISSION POINT DISPERSION PARAMETERS** |
| * Source data requirements are based on the appropriate source classification.
* Each emission point is classified as a point, flare, area, area circular, area polygon, volume, open pit, line, or buoyant line 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
* BTU/hr = British Thermal Unit per hour
* 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 modeling 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 emission point ID in parenthesis**

| **D. POINT SOURCE** |
| --- |
| Emission Point ID | Description/Name | UTM Coordinates(NAD83) | Release HeightAGL(ft) | Exit Temp.(oF) | ExitVelocity(ft/s) | InsideDiameter(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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| **E. FLARE SOURCE** |
| --- |
| Emission Point ID | Description/Name | UTM Coordinates(NAD83) | Release HeightAGL(ft) | Heat Release Rate (BTU/hr) | ExitVelocity(ft/s) | Exit Temp.(oF) | Heat Loss Fraction | Distance To Nearest Property Boundary(ft) | Building |
| Easting(m) | Northing(m) | Height(ft) | Length(ft) | Width(ft) |
|       |       |       |       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |       |       |       |       |

| **F. AREA SOURCE** |
| --- |
| Emission Point ID | Description/Name | UTM Coordinates(NAD83) | Release HeightAGL(ft) | Easterly Length(ft) | Northerly Length(ft) | Angle From North(o) | Initial VerticalDimension σz(ft) | Distance To Nearest Property Boundary(ft) |
| Easting(m) | Northing(m) |
|       |       |       |       |       |       |       |       |       |       |
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| **G. AREA CIRCULAR SOURCE** |
| --- |
| Emission Point ID | Description/Name | UTM Coordinates(NAD83) | Release HeightAGL (ft) | Radius of Area(ft) | Number of Vertices | Initial VerticalDimension σz(ft) | Distance To Nearest Property Boundary(ft) |
| Easting(m) | Northing(m) |
|       |       |       |       |       |       |       |       |       |
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| **H. AREA POLYGON SOURCE** |
| --- |
| Emission Point ID | Description/Name | UTM Coordinates(NAD83) | Release HeightAGL (ft) | Initial Vertical Dimension(ft) | Number of Vertices | Area(ft2) | Distance To Nearest Property Boundary(ft) |
| Easting-1(m) | Northing-1(m) |
|       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |

| **I. VOLUME SOURCE** |
| --- |
| Emission Point ID | Description/Name | UTM Coordinates(NAD83) | Release HeightAGL(ft) | Physical Horizontal Dimension (ft) | Initial Horizontal Dimension σy (ft) | Physical Vertical Dimension (ft) | Initial VerticalDimension σz (ft) | Distance To Nearest Property Boundary(ft) |
| Easting(m) | Northing(m) |
|       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |       |

| **J. OPEN PIT SOURCE** |
| --- |
| Emission Point ID | Description/Name | UTM Coordinates(NAD83) | Release HeightAGL (ft) | Easterly Length(ft) | Northerly Length(ft) | Pit Volume(ft3) | Angle From North (o) |
| Easting(m) | Northing(m) |
|       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |

| **K. LINE SOURCE** |
| --- |
| Emission Point ID | Description/Name | UTM Coordinates(NAD83) | Release HeightAGL(ft) | Line Length(ft) | Line Width(ft) | Initial VerticalDimension σz(ft) |
| Start Easting(m) | Start Northing(m) | End Easting(m) | End Northing(m) |
|       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |       |       |

| **L. BUOYANT LINE SOURCE (must complete Line Source and Buoyant Line Source tables)** |
| --- |
| Emission Point ID | Description/Name | Average Building Length(ft) | Average Building Height(ft) | Average Building Width(ft) | Average Line Source Width(ft) | Average Building Separation(ft) | Average Buoyancy Parameter (m4/s3) |
|       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |       |

| **M. 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 |       |       |
|       |       |       |       | [ ]  Yes [ ]  No |       |       |
|       |       |       |       | [ ]  Yes [ ]  No |       |       |
|       |       |       |       | [ ]  Yes [ ]  No |       |       |
|       |       |       |       | [ ]  Yes [ ]  No |       |       |
|       |       |       |       | [ ]  Yes [ ]  No |       |       |
|       |       |       |       | [ ]  Yes [ ]  No |       |       |
|       |       |       |       | [ ]  Yes [ ]  No |       |       |
|       |       |       |       | [ ]  Yes [ ]  No |       |       |
|       |       |       |       | [ ]  Yes [ ]  No |       |       |

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