



NOT TO BE USED FOR TITLE V APPLICATIONS

**ASPHALT PLANT
 SOURCE DESCRIPTION**

APC 33

PLEASE TYPE OR PRINT, SUBMIT IN DUPLICATE, AND ATTACH TO THE PERMIT APPLICATION

| | | | | | | |
|---|-------------------------------|---------------------------|--------------------------|-------------------|-------------------------------|---------------------------------|
| 1. ORGANIZATION NAME | | | | /// FOR | APC COMPANY - POINT NO. | |
| 2. EMISSION SOURCE NO. (AS ON PERMIT APPLICATION) | | | SIC CODE 2951 | | /// APC | APC PERMIT/LOG NO. |
| 3. CLASSIFICATION (CHECK APPROPRIATE BOXES) | | | | AFTER APR 3, 1972 | | AFTER APR 21, 1976 |
| WAS THIS PLANT FIRST SET UP IN TENNESSEE: | | | YES | NO | YES | NO |
| WAS THIS PLANT MOVED INTO TENNESSEE: | | | YES | NO | YES | NO |
| 4. PERVIOUS OWNER AND LOCATION (IF ANY) | | | | | DATE MOVED | |
| 5. SOURCE LOCATION | LATITUDE | LONGITUDE | UTM VERTICAL | | UTM HORIZONTAL | |
| 6. NORMAL OPERATION: | HOURS/DAY | DAYS/WEEK | WEEKS/YEAR | | DAYS/YEAR | |
| 7. PERCENT ANNUAL THROUGH PUT: | DEC.-FEB. | MAR.-MAY | JUNE-AUG. | | SEPT.-NOV. | |
| 8. PLANT TYPE: | BATCH | CONTINUOUS | PERMANENT | | PORTABLE | |
| 9. PLANT CAPACITY* | MAX. OPER. RATE (TONS/HOUR) | | ANNUAL PRODUCTION | | MIXER (TONS/BATCH) | |
| | DESIGN | ACTUAL | TONS/YEAR | | | |
| 10. ROADS: | PAVED (MILES) | UNPAVED (MILES OF ROAD) | OILED (MILES OF ROAD) | | WATERED (MILES & FREQUENCY) | |
| PLANT YARD | | | | | | |
| ACCESS ROADS | | | | | | |
| 11. STOCKPILES: | ESTIMATED ANNUAL TONS | TURNOVER RATE TONS/MONTH | NUMBER OF SIDES ENCLOSED | RECEIVED DAMP | WETTED AS RECEIVED | DUST CONTROL METHOD (SPECIFY) |
| | CRUSHED ROCK | | | | | |
| | GRAVEL | | | | | |
| | OTHER (SPECIFY) | | | | | |
| OTHER (SPECIFY) | | | | | | |
| 12. ARE THE EXHAUSTS FROM SECONDARY SOURCES OF DUST (E.G. ELEVATORS, SCREENS, AND BIN DISCHARGES) MANIFOLDED TO THE SAME POINT AS THE DRYER EXHAUST GASES? | | | | | YES | NO |

* ATTACH A SKETCH OF THE PLANT SHOWING STORAGE PILES, BINS, FEEDERS, CONVEYORS, ROTARY DRYERS, ELEVATORS, SCREENS, HOT BINS, MIXERS, PRODUCT DISCHARGES, CONTROL EQUIPMENT, AND PERTINENT PROCESS EQUIPMENT. ALSO INDICATE LOCATION AND APPROXIMATE LENGTHS OF BOTH PLANT AND ACCESS ROADS. SHOW PAVED AND UNPAVED PORTIONS OF EACH AS WELL AS PORTIONS WATERED, OILED, ETC., WITH APPROXIMATE MILEAGE LENGTHS INDICATED ON SKETCH.

(OVER)

| 13. FUEL DATA: | | PRIMARY FUEL TYPE (SPECIFY) | | STANDBY FUEL TYPE(S) (SPECIFY) | | | |
|----------------|-----------------------|-------------------------------|---------|-----------------------------------|------------|-------------------|-------------------------------|
| FUEL | ANNUAL USAGE | USAGE PER TON OF ASPHALT | | % SULFUR | % ASH | BTU VALUE OF FUEL | (FOR APC USE ONLY) SCC CODE |
| | | MAXIMUM | AVERAGE | | | | |
| NATURAL GAS | 10 ⁶ CU FT | CU FT | CU FT | //// //// | /// /// | 1,000 | |
| #2 FUEL OIL | 10 ³ GAL | GAL | GAL | | /// /// | | |
| #5 FUEL OIL | 10 ³ GAL | GAL | GAL | | /// /// | | |
| #6 FUEL OIL | 10 ³ GAL | GAL | GAL | | /// /// | | |
| LIQUID PROPANE | 10 ³ GAL | GAL | GAL | //// //// | /// /// | 85,000 | |
| OTHER: | | | | | | | |

| 14. STACK OR EMISSION POINT DATA: | | HEIGHT ABOVE GRADE (FT) | DIAMETER | TEMPERATURE (°F) | DIRECTION OF EXIT (UP, DOWN, OR HORIZ | DISTANCE TO NEAREST PROPERTY LINE (FT) |
|-----------------------------------|---|--|---------------------|-------------------------------------|---------------------------------------|--|
| DATA AT EXIT CONDITIONS | → | FLOW (ACTUAL FT ³ /MIN) | VELOCITY (FT/SEC) | MOISTURE (GRAINS/FT ³) | MOISTURE (PERCENT) | |
| DATA AT STANDARD CONDITIONS | → | FLOW (DRY STD. FT ³ /MIN) | VELOCITY (FT/SEC) | MOISTURE (GRAINS/FT ³) | MOISTURE (PERCENT) | |

| 15. AIR CONTAMINANTS | EMISSIONS (LBS/HR) | | CONCENTRATION | AVG. EMISS. (TONS/YR) | EMISSIONS* EST. METHOD | CONTROL* DEVICES | CONTROL*** EFFICIENCY% |
|----------------------|----------------------|---------|---------------|-------------------------|------------------------|------------------|------------------------|
| | AVERAGE | MAXIMUM | | | | | |
| PARTICULATES | | | ** | | | | |
| SULFUR DIOXIDE | | | PPM | | | | |
| CARBON MONOXIDE | | | PPM | | | | |
| ORGANIC COMPOUNDS | | | PPM | | | | |
| NITROGEN OXIDES | | | PPM | | | | |
| OTHER (SPECIFY) | | | | | | | |

16. COMMENTS

| | |
|---------------|------|
| 17. SIGNATURE | DATE |
|---------------|------|

* REFER TO THE BACK OF THE PERMIT APPLICATION FORM FOR ESTIMATION METHOD AND CONTROL DEVICE CODES.
 ** EXIT GAS PARTICULATE CONCENTRATION UNITS - GRAINS/DRY STANDARDS FT (70°F).
 *** SUPPLY VENDOR NAME AND GUARANTEED CONTROL EFFICIENCY, OR GRAIN LOADING GUARANTEE.

INSTRUCTIONS

ASPHALT PLANT SOURCE DESCRIPTION (APC 33)

This form should be completed for all new permit applications and all renewals where source conditions have changed since the previous application. This form should be used for all asphalt plants instead of the more general Process or Fuel Burning Description Form (APC 21) and the Emission Point Description Form (APC 22).

- Line 1.** - The right-hand portions of the first two lines are intended for APC Division use only.
- Line 2.** - Emission source number should be the same code as entered in Item 5 of the Permit Application Form (APC - 20).
- Line 3.** - Indicate by checking the appropriate boxes whether or not construction of this plant commenced for the first time anywhere in Tennessee after April 3, 1972 and whether or not it commenced after April 21, 1976. Similarly, if this plant was moved into Tennessee from an out of state location, indicate whether or not the most recent move into Tennessee was after April 3, 1972 and whether or not it was after April 21, 1976.
- Line 4.** - List the owner and most recent previous location of this plant along with the date it was moved from the site. Enter nonapplicable if the plant has not been moved from its original site.
- Line 5.** - Location of the site at which the plant is to operate should be entered in either latitude and longitude to the nearest seconds, or UTM coordinates to the nearest .01 kilometer.
- Line 6.** - Normal operation should reflect the expected operational schedule for the plant. Days/year need to be entered only if operation is so limited that it cannot be adequately described by days/week and weeks/year.
- Line 7.** - Percent annual throughput should reflect the approximate seasonal nature of the operation.
- Line 8.** - Check the appropriate items to reflect the type of plant.
- Line 9.** - Enter the approximate plant design and actual maximum operating rates in tons per hour, estimated annual production in tons per year, and the mixer design capacity in tons per batch, if appropriate.
- Line 10.** - Indicate, by completing the appropriate spaces, the type of road dust control for both plant roads and access roads. Indicate the approximate miles of paved and unpaved roads. If watering is used, also indicate the approximate frequency of watering. Access roads should include all private or public roads used to get from the plant property to a well maintained paved street or highway. Include only those portions of roads that are actually traveled. The unpaved category should include total miles of unpaved roads even if they are oiled or watered.

(over)

Line 11. - Enter the approximate annual tonnage of material that is stockpiled. Indicate the number of sides enclosed for any stockpiles which have enclosures. Estimate the monthly turnover rate and indicate if the material is damp when received or if it is sprayed during receiving. If any other dust control method is used specify type and describe in detail under Comments, Item 16.

Line 13. - Enter the approximate annual fuel usage along with the approximate usage per ton of asphalt produced. If units other than those specified are used, clearly indicate what units are being used to report fuel usage. Include both primary as well as any possible standby fuels so source will have permitted authority to use such fuels. If the plant is capable of using standby fuel, but very little or none is ever used, indicate the usage per ton of asphalt for such fuel but enter negligible for annual usage.

Line 15. - Emission estimates for each pollutant emitted from this point should be based on stack sampling results or engineering calculations. In certain cases other estimates may be accepted. Average emissions (lbs/hr) should be representative of the following:

- a. For continuous or long-run, steady-state, operations it is the total weight of pollutant emitted to the atmosphere for the entire period of continuous operation or for a typical portion thereof, divided by the number of hours of such period or portion thereof.
- b. For cyclical or batch type operations, it is the total weight of pollutant emitted to the atmosphere for a period which covers a complete or an integral number of cycles divided by the hours of actual process operation during such periods.

Maximum emissions (lbs/hr) should be determined by dividing the total highest emissions possible during any 3 hour period with control equipment working properly, by 3. This will be dependent upon such things, either singly or in combination, as maximum possible operating rate, a particular input material, product, or fuel which may result in increased emissions; periods of highest emissions for cyclical or batch type operations, etc. Concentrations should be determined for stack emissions only and should reflect average exit gas concentrations reported in the units specified on the Description Form.

Emission estimation method and control device descriptions, along with corresponding codes, can be found on the back of the Permit Application Form (APC 20). The codes which most accurately describe the estimation methods and control equipment used, along with the estimated control equipment efficiency should be entered for each pollutant present. Any estimation methods or control devices other than those listed in the tables should be described in the comments (Item 10).

Line 17. - Unsigned and/or undated applications will not be processed.