



## Form B4 - Permitted Equipment Emissions from Miscellaneous Sources

**Note 1:** Use this form to report any stationary source emissions from miscellaneous **permitted** activities at your facility not specifically addressed on any other form.

**Note 2:** DO NOT report fuel and emissions from on-road, off-road, or in-plant mobile source vehicles (i.e., self-propelled vehicles) such as forklifts.

**Note 3:** For estimating particulate emissions from spray coating operations, refer to Appendix G in the General Instruction Book.

**Note 4:** If the emissions from your process or equipment reported on this form contain any TACs or ODCs, you must report the total emissions (i.e., VOC and PM) on this form and the TAC/ODC content on Form TAC.

**Facility Name and ID No.:** Please fill in your facility name and facility ID number in the designated spaces, exactly as indicated on Form X (Signature Sheet) in your package.

**Activity Code:** Choose an appropriate activity code from the table in Appendix F of the General Instruction Book that best describes the activity and enter the code in column (a). If activity code "999" is used, briefly describe the activity under the activity code in column (a). **DO NOT use the activity code "999" for activities with specific codes.**

**TAC/ODC (Y/N):** In column (b), enter "Y" (for Yes) or "N" (for No) to indicate whether the activity/process reported in each row emits any toxic air contaminants or ozone depleting compounds.

**Rule Number:** Enter the rule number which is most applicable to your primary activity/process listed in each row, under column (c). You can visit the District web site at [www.aqmd.gov](http://www.aqmd.gov) to look up all the potentially applicable Rules.

**Throughput and Unit Code:** Emissions from miscellaneous sources such as processes can be calculated based on throughput or based on operating hours. Enter throughput or number of operating hours (for six-month: 7/1/07-12/31/07) in column (d). Write the unit code for throughput in column (e). The table on the right lists the unit codes for some of the most commonly used throughput units and the corresponding emission factor units.

**Emission Factors:** Write the appropriate emission factor for each pollutant from each process in the small box in the upper right-hand corner of every cell in columns (f) through (k). Please use correct units for the emission factors. (Refer to the table on the right for examples of throughput units and corresponding emission factors.) Use emission factors which most accurately reflect emissions from your equipment or process. **All emission factors must have supporting documentation.** Potential sources for emission factors include, but are not limited to: source test results, rule or permit emission factors, BACT emission levels, or EPA (or ARB) reference documents. You may refer to the following Appendixes in the General Instruction Book for additional instructions:

- Appendix K- VOC default emission factors for gasoline and diesel dispensing and storage tanks,
- Appendix H- PM default emission factors for: plating operations, asbestos abatement and abrasive blasting,
- Appendix G- PM emission factors for spray coating operations.

For cooling towers not reported on R5 please refer to "Guidelines for Calculating Emissions from Cooling Towers" dated June 2006 – **if you are using Table 1 default emission factors, report half (½) of million gallons circulating water rate/day as Throughput.** For dairy and poultry operations refer to "Guidelines for Calculating Emissions from Dairy and Poultry Operations" dated June 2008, **report half (½) of number of animals as Throughput.** For aggregate operations refer to "Particulate Matter (PM) Emission Factors for Processes /Equipment at Asphalt, Cement, Concrete, and Aggregate Product Plants" dated June 2007. For polyester operations subject to Rule 1162 refer to "Guidelines for Calculating Emissions from Polyester Resin Operation" dated June 2007. If process/equipment is equipped with control devices, please make sure that the final emission factor reported on this form reflects the Overall Control Efficiency. The controlled default Particulate Matter emission factor for asbestos abatement is 0.006 lbs/ton of building material removed (Appendix H of the General Instruction Book).

If your emission factor rounds to 0.000000, please multiply the emission factor and divide the usage with a same number (e.g. 100, 1000 or 2000) to accommodate the limitation of 6 decimal places for the emission factor on this form.

### Examples of Units:

Unit Code	Throughput Units	Corresponding Emission Factor Units
1	pound	lb / lb
2	gallon	lbs / gallon
3	mmscf	lbs / mmscf
4	1000 gallons	lbs / 1000 gallons
5	ton	lbs / ton
6	batch	lbs / batch
7	amp-hour	lbs / amp-hour
8	1000 amp-hour	lbs / 1000 amp-hour
9	cubic yard	lbs / cubic yard
10	1000 gallon per day	lbs / 1000 gallon per day
11	barrel	lbs / barrel
12	1000 barrel	lbs / 1000 barrel
13	square feet	lbs / square feet
14	number of sources	lbs / number of sources
15	millions gallon per day	lbs / millions gallon per day
16	1000 tons	lbs / 1000 tons
17	hour	lbs / hour
18	1000 bbls crude processed	lbs / 1000 bbls crude processed
19	tons of sulfur recovered	lbs / tons of sulfur recovered
20	horse power-hour	lbs / horse power-hour
21	1000 pounds	lbs / 1000 pounds
22	head	lbs / head
999	specified unit	lbs / specified unit

**Emissions:** Calculate the emissions for each pollutant by multiplying the throughput or operating hours by the emission factor for each pollutant, using the appropriate units. Enter the calculated emissions in the corresponding cell for each pollutant.

**Subtotal Emissions:** If you use more than one Form B4, indicate in the space provided the page number and the total number of B4 Forms. For example, if you use 4 forms, indicate in the boxes - page 1 of 4, page 2 of 4, etc. Total the emissions for each column (on each page) and place the total on Line 1, Subtotal Emissions (lbs).

**Sum of Subtotal Emissions:** Complete Lines 2 and 3 only on the last page of Form B4. On Line 2 enter the sum of the subtotals from Line 1 of all B4 forms. To convert the totals to tons, divide pounds by 2000, then round to two (2) decimal places and enter the total (tons) on Line 3. Transfer the total (tons) to Form C, Line 4 in the respective columns.