

Form B2U

NON-PERMITTED EMISSIONS FROM FUEL COMBUSTION - INTERNAL COMBUSTION ENGINES & TURBINES

Emissions Report

July 1, 2007 - December 31, 2007

- Read instructions on the back before completing form.
- Carry all emission calculations to 2 decimal places.
- Record each row on Form ES.

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FACILITY NAME

FACILITY I.D. NUMBER

EQUIP. CODE (a)	FUEL CODE (b)	Fuel Usage (c)	Organic Gases (d)	Methane (e)	Nitrogen Oxides (f)	Sulfur Oxides (g)	Carbon Monoxide (h)	Particulate Matter (i)
1. SUBTOTAL EMISSIONS (lbs)								
2. SUM OF SUBTOTALS (lbs) from all B2U forms (including this one)*								
3. Divide Line 2 by 2000 then transfer to Form CU, Line 2 (tons)*								

*If you have more than one page, complete Lines 2 and 3 ONLY ON THE FINAL PAGE.

PAGE # OF TOTAL PAGES IN FORM B2U



Form B2U - Non-Permitted Emissions From Fuel Combustion - Internal Combustion Engines & Turbines

Note 1: DO NOT report fuel and emissions from on-road, off-road, or in-plant mobile source vehicles (i.e., self-propelled vehicles) such as fork lifts.

Note 2: Please include only non-permitted emissions on this form (only ICE <=50 HP or gas turbines <= 2.975 MMBTU/HR can be non-permitted per Rule 219). Please note that, under Rule 301(e), non-permitted emissions are subject to emission fees beginning with the 2001-2002 reporting cycle. Please refer to the General Instruction Book for the definition of non-permitted equipment under Frequently Asked Questions. Under Rule 301 (e), you must keep separate records for your non-permitted equipment which would allow the determination of emissions from such equipment. DO NOT report RECLAIM NOx and SOx emissions on this form. Instead use Form CR. Please refer to the General Instruction Book under Frequently Asked Questions for guidance on reporting either RECLAIM or non-RECLAIM emissions.

Note 3: Emissions from non-permitted portable equipment currently registered with the Statewide Portable Equipment Registration Program should be reported on this form only for the period prior to the issuance of the registration certificate by the California Air Resources Board. Refer to the General Instruction Book under Frequently Asked Questions for more details. Please provide a copy of the registration certificate.

Note 4: Fuel combustion results in toxics emissions. These toxics emissions must be reported 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.

Equipment (Eq.), Fuel Codes and Fuel Usage: Fill in the appropriate equipment code in column (a), fuel code in column (b), and the fuel usage (for six-month: 7/1/07-12/31/07) in column (c). **Please use a separate row for each fuel/equipment combination and emission factor.** Select equipment code based on the size of your equipment. If you do not know the size of your equipment, use 10c for portable ICE and 11c for stationary ICE as defaults. If fuel usage is not measured separately (i.e., one common fuel meter for several equipment), use the equipment sizes or ratings (i.e., horse power, HP) to distribute fuel usage for each equipment type (see example for Form B2U in Appendix O of the General Instruction Book). **Please use proper units (i.e., mmscf for gaseous fuels and 1000 gallons for liquid fuels).** Do not report the fuel usage in hours. If the fuel usage is tracked by hours of operation, convert to fuel usage in requested units using manufacturer's data.

Eq. Code	Equipment Type-Portable Internal Combustion Engines (ICE)
10a	Portable ICE, 2 Stroke-Lean Burn
10b	Portable ICE, 2 Stroke-Lean Burn, with Catalyst
10c	Portable ICE, 4 Stroke-Lean Burn
10d	Portable ICE, 4 Stroke-Lean Burn, with Catalyst
10e	Portable ICE, 4 Stroke-Rich Burn
10f	Portable ICE, 4 Stroke-Rich Burn, with Catalyst

Eq. Code	Equipment Type-Stationary Internal Combustion Engines (ICE)
11a	Stationary ICE, 2 Stroke-Lean Burn
11b	Stationary ICE, 2 Stroke-Lean Burn, with Catalyst
11c	Stationary ICE, 4 Stroke-Lean Burn
11d	Stationary ICE, 4 Stroke-Lean Burn, with Catalyst
11e	Stationary ICE, 4 Stroke-Rich Burn
11f	Stationary ICE, 4 Stroke-Rich Burn, with Catalyst

Eq. Code	Equipment Type
12	Turbines
14	Micro Turbine

Fuel Code	Fuel Type
1	Natural Gas (mmscf)
2	LPG, Propane, Butane (1000 gals)
3	Diesel / Distillate Oil (1000 gals)
4	Gasoline (10 RVP) (1000 gals)
5	Landfill Gas (mmscf)
6	Digester Gas (mmscf)

Fuel Code	Fuel Type
7	Residual Fuel Oil (1000 gals)
8	Fuel Oil [0.05% S] (1000 gals)
9	Refinery Gas/Refinery Mixed Gas/Petroleum Process Gas (mmscf)
10	Jet Fuel (Jet-A and Jet-B) (1000 gals)
11	Compressed Natural Gas [CNG] (1000 gals)
12	Coal (tons)

Fuel Code	Fuel Type
13	Coke (tons)
14	Tire (tons)
15	Wood (tons)
16	Bio-Diesel (1000 gals)
17	Biomass Derived Gas (mmscf)
18	Methanol (1000 gals)

Fuel Code	Fuel Type
19	Kerosene (1000 gals)
20	Process Associated Gas (mmscf)
21	Municipal Solid Waste (tons)
22	Lignite (tons)
23	Bark (tons)
24	Spent Solvent (1000 gals)

Emission Factors: Write the appropriate emission factors for each fuel/equipment combination in the small box in the upper right-hand corner of every cell. Please use correct units for each of the factors (e.g., the emission factor for gaseous fuels should be in lbs/mmscf and for liquid fuels in lbs/1000 gallons). You must use emission factors which most accurately reflect emissions from your non-permitted equipment and provide supporting documentation (e.g., AQMD pre-approved source test results) to substantiate the emission factors. Default emission factors that represent uncontrolled emissions are listed in the table below.

Emissions: Calculate the emissions for each pollutant by multiplying the fuel usage 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 B2U, in the space provided indicate the page number and the total number of B2U 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 Subtotals: Complete Lines 2 and 3 only on the last page of Form B2U. On Line 2 enter the sum of the subtotals from Line 1 of all B2U forms. To convert the totals to tons, divide the totals in pounds by 2000, round to two (2) decimal places and enter the total (tons) on Line 3. Transfer the total (tons) to Form CU, Line 2 in the respective columns.

Default emission factors For Internal Combustion Engines and Micro Turbines

Fuel	Organic Gases	Methane	Nitrogen Oxides	Sulfur Oxides	Carbon Monoxide	Particulate Matter
Natural gas (mmscf)-2 Stroke (Lean-Burn) ICE	122.00	1,479.00	3,233.00	0.60	394.00	39.00
Natural gas (mmscf)-4 Stroke (Lean-Burn) ICE and Micro Turbine	120.00	1,275.00	4,162.00	0.60	323.00	----
Natural gas (mmscf)-4 Stroke (Rich-Burn) ICE	30.00	235.00	2,254.00	0.60	3,794.00	10.00
LPG, Propane, Butane (1000 gallons) All size ICE and Micro Turbine	83.00	----	139.00	0.35	129.00	5.00
Diesel / Distillate Oil (1000 gallons) All size ICE and Micro Turbine	37.50	----	469.00	7.10	102.00	33.50
Gasoline (1000 gallons) All size ICE and Micro Turbine	206.00	----	102.00	5.30	3,940.00	6.50