

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

375 Beale Street, Suite 600, San Francisco, CA 94105 . (415) 749-4990 . fax (415) 749-5030
 Website: www.baaqmd.gov

**Data Form C
 FUEL COMBUSTION SOURCE**

(for District use only)

--	--	--

New Modified Retro

Form C is for all operations which burn fuel except for internal combustion engines (use [Form ICE](#) unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete [Form S](#) and attach to this form. If the operation involves a process which generates any other air pollutants, complete [Form G](#) and attach to this form.

Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

1. Company Name: _____		Plant No: _____	Source No. _____
2. Equipment Name & Number, or Description: _____			
3. Make, Model :		Maximum firing rate:	Btu/hr _____
4. Date of modification or initial operation: _____ (if unknown, leave blank)			
5. Primary use (check one):			
<input type="checkbox"/> electrical generation <input type="checkbox"/> space heat <input type="checkbox"/> waste disposal <input type="checkbox"/> testing <input type="checkbox"/> abatement device <input type="checkbox"/> cogeneration <input type="checkbox"/> resource recovery <input type="checkbox"/> other <input type="checkbox"/> process heat; material heated _____			
6. SIC Number _____ If unknown leave blank			
7. Equipment type (check one)			
Internal combustion Use Form ICE (Internal Combustion Engine) unless it is a gas turbine			
<input type="checkbox"/> gas turbine _____ hp <input type="checkbox"/> other _____ hp			
Incinerator			
<input type="checkbox"/> salvage operation <input type="checkbox"/> pathological waste Temperature _____ °F <input type="checkbox"/> liquid waste <input type="checkbox"/> other _____ Residence time _____ Sec			
Others			
<input type="checkbox"/> boiler <input type="checkbox"/> dryer <input type="checkbox"/> afterburner <input type="checkbox"/> oven <input type="checkbox"/> flare <input type="checkbox"/> furnace Material dried, baked, or heated: _____ <input type="checkbox"/> open burning <input type="checkbox"/> kiln <input type="checkbox"/> other _____			
8. Overfire air? <input type="checkbox"/> yes <input type="checkbox"/> no If yes, what percent _____ %			
9. Flue gas recirculation? <input type="checkbox"/> yes <input type="checkbox"/> no If yes, what percent _____ %			
10. Air preheat? <input type="checkbox"/> yes <input type="checkbox"/> no Temperature _____ °F			
11. Low NO _x burners? <input type="checkbox"/> yes <input type="checkbox"/> no Make, Model _____			
12. Maximum flame temperature _____ °F			
13. Combustion products: Wet gas flowrate _____ acfm at _____ °F Typical Oxygen Content _____ dry volume % or _____ wet volume % or _____ % excess air			
14. Typical Use _____ hours/day _____ days/week _____ weeks/year			
15. Typical % of annual total: Dec-Feb _____% Mar-May _____% Jun-Aug _____% Sep-Nov _____%			
16. With regard to air pollutant flow, what source(s) or abatement device(s) are immediately UPSTREAM? S _____ S _____ S _____ S _____ S _____ S _____ A _____ A _____ A _____ With regard to air pollutant flow, what source(s) or abatement device(s), and/or emission points are immediately DOWNSTREAM? S _____ S _____ A _____ A _____ P _____ P _____			

Person completing this form: _____	Date: _____
------------------------------------	-------------

FUELS

INSTRUCTIONS: Complete one line in Section A for each fuel. Section B is OPTIONAL. Please use the units at the bottom of each table. N/A means "Not Applicable."

SECTION A: FUEL DATA

	Fuel Name	Fuel Code**	Total Annual Usage***	Maximum Possible Fuel Use Rate	Typical Heat Content	Sulfur Content	Nitrogen Content (optional)	Ash Content (optional)
1.								
2.								
3.								
4.								
5.								

<i>Use the appropriate units for each fuel</i>	Natural Gas	therm*	Btu/hr	N/A	N/A	N/A	N/A
	Other Gas	MSCF*	MSCF/hr	Btu/MSCF	ppm	N/A	N/A
	Liquid	m gal*	m gal/hr	Btu/m gal	wt%	wt%	wt%
	Solid	ton	ton/hr	Btu/ton	wt%	wt%	wt%

SECTION B: EMISSION FACTORS (optional)

	Fuel Name	Fuel Code**	Particulates		NOx		CO	
			Emission Factor	**Basis Code	Emission Factor	**Basis Code	Emission Factor	**Basis Code
1.								
2.								
3.								
4.								

Use the appropriate units for each fuel: Natural Gas = lb/therm*
 Other Gas = lb/MSCF*
 Liquid = lb/m gal*
 Solid = lb/ton

Note: * MSCF = thousand standard cubic feet
 * m gal = thousand gallons
 * therm = 100,000 BTU
 ** See tables below for Fuel and Basis Codes
 *** Total annual usage is: - Projected usage over next 12 months if equipment is new or modified.
 - Actual usage for last 12 months if equipment is existing and unchanged.

**Fuel Codes				**Basis Codes	
Code	Fuel	Code	Fuel	Code	Method
25	Anthracite coal	189	Natural Gas	0	Not applicable for this pollutant
33	Bagasse	234	Process gas - blast furnace	1	Source testing or other measurement by plant (attach copy)
35	Bark	235	Process gas - CO	2	Source testing or other measurement by BAAQMD (give date)
43	Bituminous coal	236	Process gas - coke oven gas	3	Specifications from vendor (attach copy)
47	Brown coal	238	Process gas - RMG	4	Material balance by plant using engineering expertise and knowledge of process
242	Bunker C fuel oil	237	Process gas - other	5	Material balance by BAAQMD
80	Coke	242	Residual oil	6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
89	Crude oil	495	Refuse derived fuel	7	Taken from literature, other than AP-42 (attach copy)
98	Diesel oil	511	Landfill gas	8	Guess
493	Digester gas	256	Solid propellant		
315	Distillate oil	466	Solid waste		
392	Fuel oil #2	304	Wood - hogged		
551	Gasoline	305	Wood - other		
158	Jet fuel	198	Other - gaseous fuels		
160	LPG	200	Other - liquid fuels		
165	Lignite	203	Other - solid fuels		
167	Liquid waste				
494	Municipal solid waste				