

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

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 Website: [www.baaqmd.gov](http://www.baaqmd.gov)

**Data Form C  
 FUEL COMBUSTION SOURCE**

(for District use only)

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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:	Facility ID/ Plant No:	(If unknown, leave blank) Source No.
2. Equipment Name & Number, or Description:		
3. Make, Model :	Maximum firing rate:	Btu/hr
4. Date of modification or initial operation: <span style="float: right;">(if unknown, leave blank)</span>		
5. Primary use (check one):	electrical generation abatement device process heat; material heated	space heat cogeneration
	waste disposal resource recovery	testing other
6. SIC Number <small>If unknown leave blank</small>		
7. Equipment type (check one)		
<b>Internal combustion</b>	Use <a href="#">Form ICE (Internal Combustion Engine)</a> unless it is a gas turbine	
	gas turbine	hp
	other	hp
<b>Incinerator</b>	salvage operation liquid waste	pathological waste other
		Temperature Residence time
		°F Sec
<b>Others</b>	boiler watertube      firetube afterburner flare open burning	dryer oven furnace kiln other
		Material dried, baked, or heated:
8. Overfire air?	yes      no	If yes, what percent      %
9. Flue gas recirculation?	yes      no	If yes, what percent      %
10. Air preheat?	yes      no	Temperature      °F
11. Low NO <sub>x</sub> burners?	yes      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?		
<b>S      S      S      S      S      S      A      A      A</b>		
With regard to air pollutant flow, what source(s) or abatement device(s), and/or emission points are immediately <u>DOWNSTREAM</u> ?		
<b>S      S      A      A      P      P</b>		

Person completing this form:	Date:
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(revised 7/12/2021)

## 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				