

APPENDIX 5.1E

BAAQMD Permit Application

IMPORTANT:

Under the California Public Records Act, all information in your permit application will be considered a matter of public record and may be disclosed to a third party. If you wish to keep certain items separate as specified in Regulation 2, Rule 1, Section 202.7, please complete the following steps:

- (a) Make a copy of your permit application with the confidential information blanked out. Label this copy "Public Copy".
- (b) Label the original copy "Confidential." Circle all confidential items on each page. Label each page with confidential information "Confidential".
- (c) Prepare a written justification for the confidentiality of each confidential item. Append this to the confidential copy.

ACKNOWLEDGEMENT (*Please initial*) _____

NOTICE

To avoid delay of processing, mail completed application to:

Permit Services Division

Bay Area Air Quality Management District

939 Ellis Street, San Francisco, CA 94109

(Do not mail to an individual)

Note: EPA and other agencies may request a copy of your complete application. For further information, you should contact the local city or county office of permit assistance within the Office of Planning and Research in Sacramento.

Office of Planning and Research

1400 Tenth Street

Sacramento, CA 95814

(916) 332-4245

Permit Services Division
 Bay Area Air Quality Management District
 939 Ellis Street, San Francisco, CA 94109 • 771-6000

Synthetic Minor Operating Permit

Form SMOP-EF

BUSINESS NAME: Mariposa Energy, LLC

PLANT #:

TOTAL PROPOSED EMISSIONS FOR FACILITY

Include proposed annual emissions for each pollutant. Give emissions in tons per year. Use one line for each pollutant. If more space is required, use additional forms. Please type or print legibly.

POLLUTANT (name)	EMISSIONS (tons per year)	PRE-MODIFICATION EMISSIONS (tons per year)	EMISSIONS CHANGE (tons per year)
NOx	48.6	0	48.6
CO	69.5	0	69.5
VOC	11.1	0	11.1
SOx	3.2	0	3.2
PM10/2.5	25.8	0	25.8
Acetaldehyde	0.56	0	0.56
Formaldehyde	3.7	0	3.7
Hexane	1.1	0	1.1
Propylene	3.1	0	3.1
Propylene Oxide	0.19	0	0.19
Toluene	0.29	0	0.29
Xylene	0.11	0	0.11
All Other HAP	<0.1	0	<0.1

Boldan Buchynsky
 Signature of Responsible Official

Boldan Buchynsky
 Print Name of Responsible Official

Treasurer / asst. secretary
 Title of Responsible Official and Company Name

Date: June 4, 2009

BUSINESS NAME Mariposa Energy, LLC PLANT #

PERMITTED SOURCES and MAXIMUM EMISSIONS

List all permitted sources in numeric order. Include proposed maximum monthly and annual emissions for each source or group of sources. Give emissions in tons per month and in tons per year. (NOTE: the maximum monthly emissions, when multiplied times twelve, do not need to equal the maximum annual emissions.) Use one line for each pollutant. Monthly and annual emission calculations for each source to be covered by the synthetic minor permit must accompany this form. If the basis of the emission calculation(s) for a source differs from that used for the District's annual update, include Data Form X. If more space is required, use additional forms. Please type of print legibly.

SOURCE #	SOURCE DESCRIPTION	ABATED BY DEVICE #	POLLUTANTS(S) (one line for each)	MONTHLY EMISSIONS (abated, tons/month)	ANNUAL EMISSIONS (abated, tons/year)
S1,2,3,4	Combustion Turbine	A1-8	NOx	4.1	48.6
S1,2,3,4	Combustion Turbine	A1-8	CO	5.8	69.5
S1,2,3,4	Combustion Turbine	A1-8	VOC	0.93	11.1
S1,2,3,4	Combustion Turbine	A1-8	SOx	0.27	3.2
S1,2,3,4	Combustion Turbine	A1-8	PM _{10/2.5}	2.2	25.8
S1,2,3,4	Combustion Turbine	A1-8	Acetaldehyde	0.047	0.56
S1,2,3,4	Combustion Turbine	A1-8	Formaldehyde	0.31	3.7
S1,2,3,4	Combustion Turbine	A1-8	Hexane	0.088	1.1
S1,2,3,4	Combustion Turbine	A1-8	Propylene	0.26	3.1
S1,2,3,4	Combustion Turbine	A1-8	Propylene Oxide	0.016	0.19
S1,2,3,4	Combustion Turbine	A1-8	Toluene	0.024	0.29
S1,2,3,4	Combustion Turbine	A1-8	Xylene	0.0088	0.11
S5	Fire Pump	NA	NOx	<0.00001	<0.0001
S5	Fire Pump	NA	CO	<0.00001	<0.0001
S5	Fire Pump	NA	VOC	<0.00001	<0.0001
S5	Fire Pump	NA	SOx	<0.00001	<0.0001
S5	Fire Pump	NA	PM _{10/2.5}	<0.00001	<0.0001
S5	Fire Pump	NA	All HAPs	<0.00001	<0.0001

ABATEMENT DEVICES

List all abatement devices in numeric order. Give equipment description including manufacturer and model number if applicable. If device is abated by a subsequent abatement device, please specify. If more space is required, use additional forms. Please type or print legibly.

ABATEMENT DEVICE #	ABATEMENT DEVICE DESCRIPTION	ABATED BY DEVICE # (IF APPLICABLE)
A1,3,5,7	SCR NOx Control	NA
A2,4,6,8	Oxidation Catalyst	NA

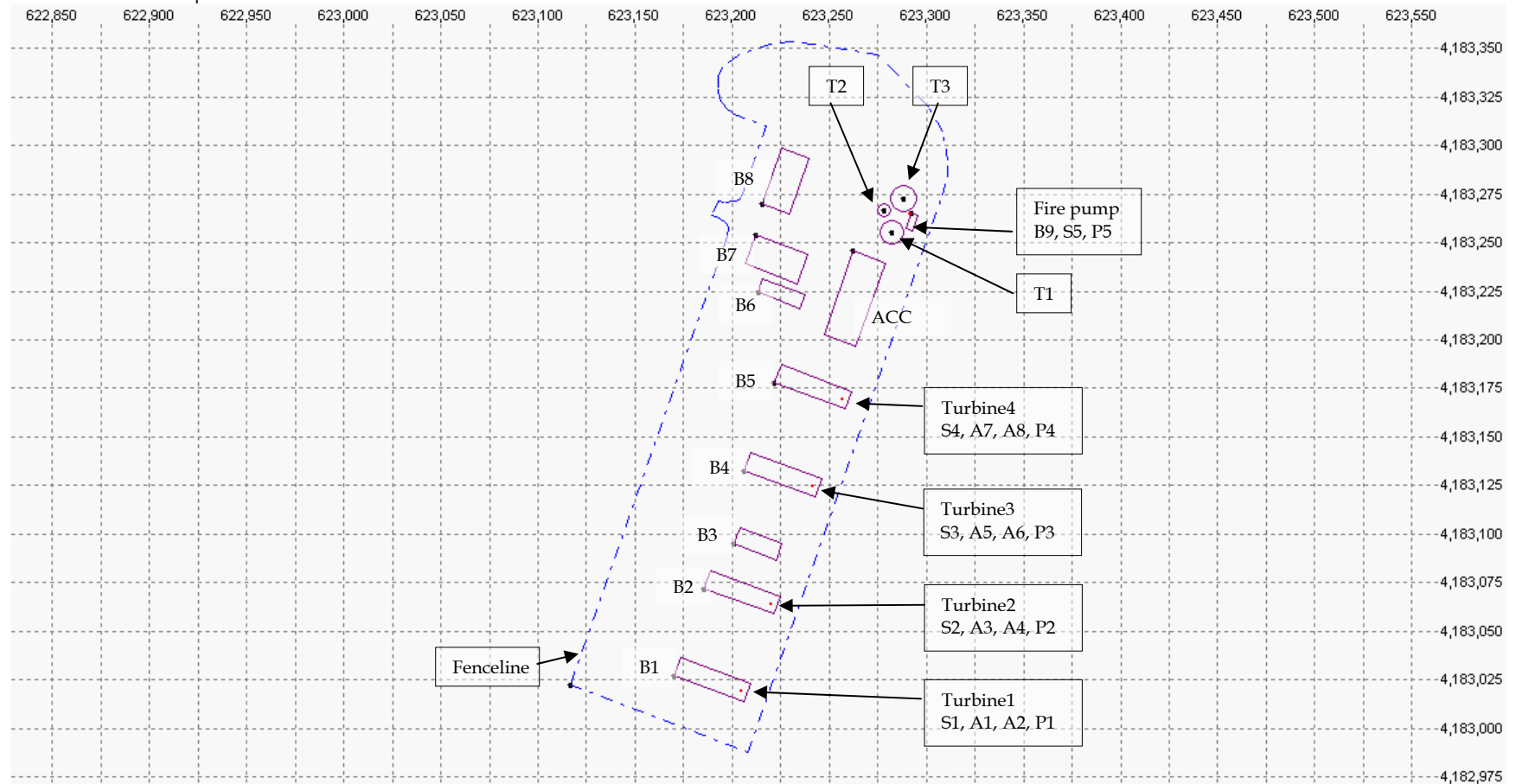
Attach all necessary emissions calculations.

Bohdan Buchynsky
 Signature of Responsible Official

June 4, 2009
 Date

Bohdan Buchynsky
 Name of Responsible Official

Mariposa Energy Project
BAAQMD Permit Application Package
June 2009
AERMOD Model Setup



UTM NAD27, Zone 10



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street, San Francisco, CA 94109
Engineering Division (415) 749-4990
www.baaqmd.gov fax (415) 749-5030

Form ICE
Internal Combustion Engines

Form ICE is to be completed for all internal combustion engines except turbines. (For turbines, submit Form C). Submit one form for each engine. If this is a new engine or a modification to an existing engine, you must also complete Form HRSA Health Risk Screen Analysis. Additional forms and all District regulations and rules are available on the District's web site. Contact your assigned permit engineer or the Engineering Division at the above telephone number if you need assistance completing this form. Please include the engine manufacturer's **equipment specifications**.

1. SUMMARY New Construction Modification Loss of Exemption

Company Name Mariposa Energy, LLC Plant No.* _____

Source Description Diesel Fire Pump Driver Source No.* S-5

Initial Date of Operation 2012 (Not required for modification of an existing permitted source) **(If unknown leave blank)*

Operating Schedule Typical hrs/day 0.33 Days/week 1 Weeks/yr 12 Maximum hrs/day 0.33

2. ENGINE INFORMATION Check here if applying for a portable equipment permit. (See Reg. 2-1-413 for requirements)

Engine Type: (Check one) 4 Stroke 2 Stroke Compression Ignition (Diesel) or 4 Stroke 2 Stroke Spark Ignition

Engine Manufacturer Cummins Model CFP7E-F40 or equivalent Model Year TBD

EPA/CARB Engine Family Name 9CEXL0409AAB Engine Serial No. TBD

Engine Displacement 408 (cu in) Maximum rated output (bhp) 220 Typical load as % of bhp rating 10

Is this an emergency/standby engine? Yes No

(Complete and check all that apply)

Certification: EPA Certified CARB Certified CARB Executive Order No. U-R-002-0476

None (If None is checked, please indicate below the items applicable to this engine.)

- Naturally aspirated Supercharged Turbocharged Inter-cooled After-cooled
- Timing retard ≥ 4° Lean-burn Rich-burn

Primary Use: Electrical generation Cogeneration Pump driver Fire pump driver

Compressor driver Tub grinder driver Other: _____

3. ABATEMENT DEVICE INFORMATION Complete this section only if the engine exhausts to an add-on abatement device.

Check here if the engine has more than one add-on abatement device and complete a separate Form A for each additional abatement device.

Abatement device number A _____ (If unknown leave blank) New Existing

Device type: Diesel catalyzed particulate filter Oxidation catalyst Selective catalytic reduction (SCR)
 Non-selective catalytic reduction (NSCR or 3-way catalyst) Other: _____

Make, Model, and Rated Capacity _____

Abatement device control efficiencies at typical operation (Use the basis codes listed below. If unknown leave blank)

Control Efficiency/Emission Factor Basis Codes: (Submit supporting documentation if available)

- (1) Source testing or other measurement by plant (8) Guess
- (2) Source testing or measurement by BAAQMD (District use only) (9) EPA/CARB Certification
- (3) Specification from vendor
- (4) Material balance by plant using knowledge of process
- (5) Material balance by BAAQMD (District use only)
- (6) EPA Document AP-42 Emission Factors
- (7) Taken from literature other than AP-42

Pollutant Name	Wt % Reduction	Basis Code
Particulates		
Organics		
Nitrogen Oxides		
Sulfur Dioxide		
Carbon Monoxide		
Others – <input type="checkbox"/> Check here and attach a separate list of pollutants. Include the basis code and the control efficiency.		

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Form ICE
Internal Combustion Engines

4. EMISSION POINT/STACK INFORMATION Check here if the engine has more than one stack or has a continuous pollutant emission monitor and complete one Form P for each emission point.

Emission point number P -5 (If unknown leave blank) New Existing
 Stack outlet height from ground level (ft) 12
 Diameter of stack outlet (inches) 6 or Outlet cross-section area (square inches) _____
 Direction of outlet (check one) Horizontal Vertical End of outlet (check one) Open/hinged flap Rain cap
 Exhaust rate at typical operation (acfm) 1,363 Exhaust temperature at typical operation (°F) 874

5. RISK ASSESSMENT INFORMATION

Distance from engine to the property line of the nearest residence (ft) ~3,200 or (check if) Greater than one mile
 Distance from engine to the property line of the nearest school¹ (ft) _____ or (check if) Greater than 1000 ft
 Describe the nearest non-residential, non-school site (check one) Industrial Commercial Hospital
 Day care center Other _____
 Distance from engine to the property line of the nearest non-residential, non- school site(ft) ~450 or Greater than one mile
 1. K-12 and more than twelve children only.

6. FUEL DATA Complete the table below for each fuel burned. If you are using a fuel other than those listed in the fuel code table, attach a fuel analysis indicating the higher heating value, sulfur content, and nitrogen content. Please clearly indicate the measurement unit that corresponds to the information you are submitting. Check here if you are using more than two fuels, and attach a copy of this page listing the additional fuels.

Primary Fuel					Secondary Fuel						
Fuel Code ¹	<u>98</u>	Name	<u>Diesel</u>			Fuel Code ¹	<u>NA</u>	Name	<u>NA</u>		
Maximum Fuel Use Rate ²	<u>11.3</u>	gal/hr or SCF/hr			Maximum Fuel Use Rate ²	_____	gal/hr or SCF/hr				
Annual Fuel Usage ³	<u>45.2</u>	gal/yr or therm/yr or SCF/yr			Annual Fuel Usage ³	_____	gal/yr or therm/yr or SCF/yr				
Typical Heat Content ⁴	<u>NA</u>	BTU/gal or BTU/SCF			Typical Heat Content ⁴	_____	BTU/gal or BTU/SCF				
Sulfur Content ⁴	<u>15 ppm</u>	wt% liquids or ppmv gases			Sulfur Content ⁴	_____	wt% liquids or ppmv gases				
Emission Factors (Optional)					Emission Factors (Optional)						
Pollutant Name	Emission Factor	Units ⁵	Basis Code ⁶	Abated Factor (✓) ⁷	Pollutant Name	Emission Factor	Units ⁵	Basis Code ⁶	Abated Factor (✓) ⁷		
Particulates	0.111	grams/bhp-hr		<input type="checkbox"/>	Particulates				<input type="checkbox"/>		
Organics	0.062	grams/bhp-hr		<input type="checkbox"/>	Organics				<input type="checkbox"/>		
Nitrogen Oxides	2.544	grams/bhp-hr		<input type="checkbox"/>	Nitrogen Oxides				<input type="checkbox"/>		
Carbon Monoxide	1.193	grams/bhp-hr		<input type="checkbox"/>	Carbon Monoxide				<input type="checkbox"/>		
Others – <input type="checkbox"/> Check here and attach a separate list under each fuel used.					Others – <input type="checkbox"/> Check here and attach a separate list under each fuel used.						

- Fuel Codes: Diesel (98) Bio Diesel B100 (815) Bio Diesel B20 Blend (816) Gasoline (551)
 Natural Gas (189) Landfill Gas (511) Digester Gas (493) Liquid Petroleum Gas (LPG) (160)
- Maximum fuel use rate units: gallon/hr for liquid fuels and SCF/hr for gaseous fuels. (SCF = Standard Cubic Foot)
- The annual fuel usage is the actual or projected engine fuel consumption over a rolling 12-month time period. Annual usage units: gallons for liquid fuel, therms for natural gas, and SCF for other gaseous fuels. (therm = 100,000 BTUs, BTU = British Thermal Unit)
- If you are using diesel, natural gas, or gasoline, you may skip this entry. Heat content units: BTU/gallon for liquid fuels, BTU/SCF for gaseous fuels. Sulfur content units: weight % for liquid fuels, ppmv for gaseous fuels. (ppmv = parts per million by volume)
- Emission factors may be reported as gram/brakehp-hr, or as lb per gallon, or as lb per therm, or as lb per SCF.
- See the Control Efficiency/Emission Factor Basis Code table under Section 3 on page 1 of this form.
- Place a check in this column if the emission factor applies to emissions after abatement by an add-on abatement device.

7. CERTIFICATION I hereby certify that all information contained herein is true and correct. (Please sign and date this form)

Bohdan Buchynsky Treasurer/Asst. Sec. Bohdan Buchynsky 6/4/2009
 Name of person certifying (print) Title of person certifying Signature of person certifying 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.	Natural Gas		82783600	481.3 E6	1047000	0.66 grain		
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				

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.	Natural Gas		82783600	481.3 E6	1047000	0.66 grain		
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				

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.	Natural Gas		82783600	481.3 E6	1047000	0.66 grain		
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				

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109. . . (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.

(If unknown, leave blank)	
1. Company Name: Mariposa Energy, LLC	Plant No: _____ Source No. 4
2. Equipment Name & Number, or Description: GE LM6000 PC-Sprint Combustion Turbine	
3. Make, Model : GE LM6000 PC-Sprint Combustion Turbine	Maximum firing rate: 481 MM Btu/hr
4. Date of modification or initial operation: <u>2012</u> (if unknown, leave blank)	
5. Primary use (check one):	
<input checked="" 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 <u>4931</u> <small>If unknown leave blank</small>	
7. Equipment type (check one)	
Internal combustion Use Form ICE (Internal Combustion Engine) unless it is a gas turbine	
<input checked="" type="checkbox"/> gas turbine <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 checked="" type="checkbox"/> no If yes, what percent _____ %	
9. Flue gas recirculation? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If yes, what percent _____ %	
10. Air preheat? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no Temperature _____ °F	
11. Low NO _x burners? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Make, Model <u>GE Water Injected Combustors</u>	
12. Maximum flame temperature <u>NA</u> °F	
13. Combustion products: Wet gas flowrate <u>1050333</u> acfm at <u>780</u> °F Typical Oxygen Content <u>14.4</u> dry volume % or _____ wet volume % or _____ % excess air	
14. Typical Use <u>11</u> hours/day <u>7</u> days/week <u>52</u> weeks/year	
15. Typical % of annual total: Dec-Feb <u>25</u> % Mar-May <u>25</u> % Jun-Aug <u>25</u> % Sep-Nov <u>25</u> %	
16. With regard to air pollutant flow, what source(s) or abatement device(s) are immediately UPSTREAM?	
S <u>4</u> 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 <u>7</u> A <u>8</u> P <u>4</u> P _____	

Person completing this form: Keith McGregor	Date: 06/03/2009
---------------------------------------------	------------------

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.	Natural Gas		82783600	481.3 E6	1047000	0.66 grain		
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				



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . FAX (415) 749-5030

--	--

for office use only

Abatement Device: Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Mariposa Energy, LLC Plant No: _____
(If unknown, leave blank)

2. Name or Description SCR NOx Control Abatement Device No: A- 1

3. Make, Model, and Rated Capacity TBD

4. Abatement Device Code (See table*) 66 Date of Initial Operation 2012

5. With regard to air pollutant flow into this abatement device, what sources(s) and/or abatement device(s) are **immediately** upstream?

S- 1 S- _____ S- _____ S- _____ S- _____
S- _____ A- _____ A- _____ A- _____ A- _____ A- _____

6. Typical gas stream temperature at inlet: 848 °F

If this form is being submitted as part of an application for an **Authority to Construct**, completion of the following table is mandatory. If not, and the Abatement Device is *already in operation*, completion of the table is requested but not required.

	Pollutant	Weight Percent Reduction (at typical operation)	Basis Codes (See Table**)
7.	Particulate	NA	
8.	Organics	NA	
9.	Nitrogen Oxides (as NO ₂)	90	3
10.	Sulfur Dioxide	NA	
11.	Carbon Monoxide	NA	
12.	Other:		
13.	Other:		

14. Check box if this Abatement Device burns fuel; complete lines 1, 2 and 15-36 on Form C (using the Abatement Device No. above for the Source No.) and attach to this form.

15. With regard to air pollutant flow from this abatement device, what sources(s), abatement device(s) and/or emission point(s) are **immediately** downstream?

S- _____ A- _____ A- _____ A- _____ P- 1 P- _____

Person completing this form: <u>Keith McGregor</u>	Date: <u>06/03/2009</u>
----------------------------------------------------	-------------------------

***ABATEMENT DEVICE CODES**

Code	DEVICE
	ADSORBER (See Vapor Recovery)
	AFTERBURNER
1	CO Boiler
2	Catalytic
3	Direct Flame
4	Flare
5	Furnace-firebox
6	Other
	BAGHOUSE (See Dry Filter)
	CYCLONE (See Dry Inertial Collector and Scrubber)
	DUST CONTROL
68	Water Spray
	DRY FILTER
7	Absolute
8	Baghouse, Pulse Jet
9	Baghouse, Reverse Air
10	Baghouse, Reverse Jet
11	Baghouse, Shaking
12	Baghouse, Simple
13	Baghouse, Other
14	Envelope
15	Moving Belt
16	Other
	DRY INERTIAL COLLECTOR
17	Cyclone, Dynamic
18	Cyclone, Multiple (12 inches dia. or more)
19	Cyclone, Multiple (less than 12 inches dia.)
20	Cyclone, Simple
21	Settling Chamber, Baffled/Louvered
22	Settling Chamber, Simple
23	Other
	ELECTROSTATIC PRECIPITATOR
24	Single Stage
25	Single Stage, Wet
26	Two Stage
27	Two Stage, Wet
28	Other
	INCINERATOR (See Afterburner)
	INTERNAL COMBUSTION ENGINE CONTROL
69	Catalyzed Diesel Particulate Filter
70	Non-Cat. Diesel Part. Filter w/ Active Regeneration
71	Diesel Oxidation Catalyst
72	Oxidation Catalyst
	KNOCK-OUT POT (See Liquid Separator)
	LIQUID SEPARATOR
29	Knock-out Pot
30	Mist Eliminator, Horizontal Pad, Dry
31	Mist Eliminator, Panel, Dry
32	Mist Eliminator, Spray/Irrigated
33	Mist Eliminator, Vertical Tube, Dry
34	Mist Eliminator, Other
35	Other
	NO _x CONTROL
66	Selective Catalytic Reduction (SCR)

Code	DEVICE
67	Non-Selective Catalytic Reduction (NSCR)
73	Selective Non-Catalytic Reduction (SNCR)
	SCRUBBER
36	Baffle and Secondary Flow
37	Centrifugal
38	Cyclone, Irrigated
39	Fibrous Packed
40	Impingement Plate
41	Impingement and Entrainment
42	Mechanically Aided
43	Moving Bed
44	Packed Bed
45	Preformed Spray
46	Venturi
47	Other
	SETTLING CHAMBER (See Dry Inertial Collector)
	SULFUR DIOXIDE CONTROL
48	Absorption and Regeneration, for Sulfur Plant
49	Claus Solution Reaction, for Sulfur Plant
50	Dual Absorption, for H ₂ S ₀₄ Plant
51	Flue Gas Desulfurization, for Fossil Fuel Combustion
52	Reduction and Solution Regeneration, for Sulfur Plant
53	Reduction and Stretford Process, for Sulfur Plant
54	Sodium Sulfite-Bisulfite Scrubber, for H ₂ S ₀₄ Plant
55	Other
	VAPOR RECOVERY
56	Adsorption, Activated Carbon/Charcoal
57	Adsorption, Silica
58	Adsorption, Other
59	Balance
60	Compression/Condensation/Absorption
61	Compression/Refrigeration
62	Condenser, Water-Cooled
63	Condenser, Other
64	Other
	MISCELLANEOUS
74	Soil Vapor Extraction Abatement System
65	Not classified above

****BASIS CODES**

Code	Method
0	Not applicable for this pollutant
1	Source testing or other measurement by plant
2	Source testing or other measurement by BAAQMD
3	Specifications from vendor
4	Material balance by plant using engineering expertise and knowledge of process
5	Material balance by BAAQMD using engineering expertise and knowledge of process
6	Taken from AP-42 ("Compilation of Air Pollutant Emission Factors," EPA)
7	Taken from literature, other than AP-42
8	Guess



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . FAX (415) 749-5030

--	--

for office use only

Abatement Device: Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Mariposa Energy, LLC Plant No: _____
(If unknown, leave blank)

2. Name or Description Oxidation Catalyst Abatement Device No: A- 2

3. Make, Model, and Rated Capacity TBD

4. Abatement Device Code (See table*) 72 Date of Initial Operation 2012

5. With regard to air pollutant flow into this abatement device, what sources(s) and/or abatement device(s) are **immediately** upstream?

S- 1 S- _____ S- _____ S- _____ S- _____
 S- _____ A- _____ A- _____ A- _____ A- _____ A- _____

6. Typical gas stream temperature at inlet: 848 °F

If this form is being submitted as part of an application for an **Authority to Construct**, completion of the following table is mandatory. If not, and the Abatement Device is *already in operation*, completion of the table is requested but not required.

	Pollutant	Weight Percent Reduction (at typical operation)	Basis Codes (See Table**)
7.	Particulate	NA	
8.	Organics	82	3
9.	Nitrogen Oxides (as NO ₂)	NA	
10.	Sulfur Dioxide	NA	
11.	Carbon Monoxide	91	3
12.	Other:		
13.	Other:		

14. Check box if this Abatement Device burns fuel; complete lines 1, 2 and 15-36 on Form C (using the Abatement Device No. above for the Source No.) and attach to this form.

15. With regard to air pollutant flow from this abatement device, what sources(s), abatement device(s) and/or emission point(s) are **immediately** downstream?

S- _____ A- _____ A- _____ A- _____ P- 1 P- _____

Person completing this form: <u>Keith McGregor</u>	Date: <u>06/03/2009</u>
----------------------------------------------------	-------------------------



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . FAX (415) 749-5030

--	--

for office use only

Abatement Device: Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Mariposa Energy, LLC Plant No: _____
(If unknown, leave blank)

2. Name or Description SCR NOx Control Abatement Device No: A- 3

3. Make, Model, and Rated Capacity TBD

4. Abatement Device Code (See table*) 66 Date of Initial Operation 2012

5. With regard to air pollutant flow into this abatement device, what sources(s) and/or abatement device(s) are **immediately** upstream?

S- 2 S- _____ S- _____ S- _____ S- _____
S- _____ A- _____ A- _____ A- _____ A- _____ A- _____

6. Typical gas stream temperature at inlet: 848 °F

If this form is being submitted as part of an application for an **Authority to Construct**, completion of the following table is mandatory. If not, and the Abatement Device is *already in operation*, completion of the table is requested but not required.

	Pollutant	Weight Percent Reduction (at typical operation)	Basis Codes (See Table**)
7.	Particulate	NA	
8.	Organics	NA	
9.	Nitrogen Oxides (as NO ₂)	90	3
10.	Sulfur Dioxide	NA	
11.	Carbon Monoxide	NA	
12.	Other:		
13.	Other:		

14. Check box if this Abatement Device burns fuel; complete lines 1, 2 and 15-36 on Form C (using the Abatement Device No. above for the Source No.) and attach to this form.

15. With regard to air pollutant flow from this abatement device, what sources(s), abatement device(s) and/or emission point(s) are **immediately** downstream?

S- _____ A- _____ A- _____ A- _____ P- 2 P- _____

Person completing this form: <u>Keith McGregor</u>	Date: <u>06/03/2009</u>
----------------------------------------------------	-------------------------



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . FAX (415) 749-5030

--	--

for office use only

Abatement Device: Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Mariposa Energy, LLC Plant No: _____
(If unknown, leave blank)

2. Name or Description Oxidation Catalyst Abatement Device No: A- 4

3. Make, Model, and Rated Capacity TBD

4. Abatement Device Code (See table*) 72 Date of Initial Operation 2012

5. With regard to air pollutant flow into this abatement device, what sources(s) and/or abatement device(s) are **immediately** upstream?

S- 2 S- _____ S- _____ S- _____ S- _____
 S- _____ A- _____ A- _____ A- _____ A- _____ A- _____

6. Typical gas stream temperature at inlet: 848 °F

If this form is being submitted as part of an application for an **Authority to Construct**, completion of the following table is mandatory. If not, and the Abatement Device is *already in operation*, completion of the table is requested but not required.

	Pollutant	Weight Percent Reduction (at typical operation)	Basis Codes (See Table**)
7.	Particulate	NA	
8.	Organics	82	3
9.	Nitrogen Oxides (as NO ₂)	NA	
10.	Sulfur Dioxide	NA	
11.	Carbon Monoxide	91	3
12.	Other:		
13.	Other:		

14. Check box if this Abatement Device burns fuel; complete lines 1, 2 and 15-36 on Form C (using the Abatement Device No. above for the Source No.) and attach to this form.

15. With regard to air pollutant flow from this abatement device, what sources(s), abatement device(s) and/or emission point(s) are **immediately** downstream?

S- _____ A- _____ A- _____ A- _____ P- 2 P- _____

Person completing this form: <u>Keith McGregor</u>	Date: <u>06/03/2009</u>
----------------------------------------------------	-------------------------



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . FAX (415) 749-5030

--	--

for office use only

Abatement Device: Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Mariposa Energy, LLC Plant No: _____
(If unknown, leave blank)

2. Name or Description SCR NOx Control Abatement Device No: A- 5

3. Make, Model, and Rated Capacity TBD

4. Abatement Device Code (See table*) 66 Date of Initial Operation 2012

5. With regard to air pollutant flow into this abatement device, what sources(s) and/or abatement device(s) are **immediately** upstream?

S- 3 S- _____ S- _____ S- _____ S- _____
 S- _____ A- _____ A- _____ A- _____ A- _____ A- _____

6. Typical gas stream temperature at inlet: 848 °F

If this form is being submitted as part of an application for an **Authority to Construct**, completion of the following table is mandatory. If not, and the Abatement Device is *already in operation*, completion of the table is requested but not required.

	Pollutant	Weight Percent Reduction (at typical operation)	Basis Codes (See Table**)
7.	Particulate	NA	
8.	Organics	NA	
9.	Nitrogen Oxides (as NO ₂)	90	3
10.	Sulfur Dioxide	NA	
11.	Carbon Monoxide	NA	
12.	Other:		
13.	Other:		

14. Check box if this Abatement Device burns fuel; complete lines 1, 2 and 15-36 on Form C (using the Abatement Device No. above for the Source No.) and attach to this form.

15. With regard to air pollutant flow from this abatement device, what sources(s), abatement device(s) and/or emission point(s) are **immediately** downstream?

S- _____ A- _____ A- _____ A- _____ P- 3 P- _____

Person completing this form: <u>Keith McGregor</u>	Date: <u>06/03/2009</u>
----------------------------------------------------	-------------------------



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . FAX (415) 749-5030

for office use only

Abatement Device: Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Mariposa Energy, LLC Plant No: _____
(If unknown, leave blank)

2. Name or Description Oxidation Catalyst Abatement Device No: A- 6

3. Make, Model, and Rated Capacity TBD

4. Abatement Device Code (See table*) 72 Date of Initial Operation 2012

5. With regard to air pollutant flow into this abatement device, what sources(s) and/or abatement device(s) are **immediately** upstream?

S- 3 S- _____ S- _____ S- _____ S- _____
S- _____ A- _____ A- _____ A- _____ A- _____ A- _____

6. Typical gas stream temperature at inlet: 848 °F

If this form is being submitted as part of an application for an **Authority to Construct**, completion of the following table is mandatory. If not, and the Abatement Device is *already in operation*, completion of the table is requested but not required.

	Pollutant	Weight Percent Reduction (at typical operation)	Basis Codes (See Table**)
7.	Particulate	NA	
8.	Organics	82	3
9.	Nitrogen Oxides (as NO ₂)	NA	
10.	Sulfur Dioxide	NA	
11.	Carbon Monoxide	91	3
12.	Other:		
13.	Other:		

14. Check box if this Abatement Device burns fuel; complete lines 1, 2 and 15-36 on Form C (using the Abatement Device No. above for the Source No.) and attach to this form.

15. With regard to air pollutant flow from this abatement device, what sources(s), abatement device(s) and/or emission point(s) are **immediately** downstream?

S- _____ A- _____ A- _____ A- _____ P- 3 P- _____

Person completing this form: Keith McGregor Date: 06/03/2009



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . FAX (415) 749-5030

--	--

for office use only

Abatement Device: Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Mariposa Energy, LLC Plant No: _____
(If unknown, leave blank)

2. Name or Description SCR NOx Control Abatement Device No: A- 7

3. Make, Model, and Rated Capacity TBD

4. Abatement Device Code (See table*) 66 Date of Initial Operation 2012

5. With regard to air pollutant flow into this abatement device, what sources(s) and/or abatement device(s) are **immediately** upstream?

S- 4 S- _____ S- _____ S- _____ S- _____
S- _____
 A- _____ A- _____ A- _____ A- _____ A- _____

6. Typical gas stream temperature at inlet: 848 °F

If this form is being submitted as part of an application for an **Authority to Construct**, completion of the following table is mandatory. If not, and the Abatement Device is *already in operation*, completion of the table is requested but not required.

	Pollutant	Weight Percent Reduction (at typical operation)	Basis Codes (See Table**)
7.	Particulate	NA	
8.	Organics	NA	
9.	Nitrogen Oxides (as NO ₂)	90	3
10.	Sulfur Dioxide	NA	
11.	Carbon Monoxide	NA	
12.	Other:		
13.	Other:		

14. Check box if this Abatement Device burns fuel; complete lines 1, 2 and 15-36 on Form C (using the Abatement Device No. above for the Source No.) and attach to this form.

15. With regard to air pollutant flow from this abatement device, what sources(s), abatement device(s) and/or emission point(s) are **immediately** downstream?

S- _____ A- _____ A- _____ A- _____ P- 4 P- _____

Person completing this form: <u>Keith McGregor</u>	Date: <u>06/03/2009</u>
----------------------------------------------------	-------------------------



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . FAX (415) 749-5030

--	--

for office use only

Abatement Device: Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Mariposa Energy, LLC Plant No: _____
(If unknown, leave blank)

2. Name or Description Oxidation Catalyst Abatement Device No: A- 8

3. Make, Model, and Rated Capacity TBD

4. Abatement Device Code (See table*) 72 Date of Initial Operation 2012

5. With regard to air pollutant flow into this abatement device, what sources(s) and/or abatement device(s) are **immediately** upstream?

S- 4 S- _____ S- _____ S- _____ S- _____
 S- _____ A- _____ A- _____ A- _____ A- _____ A- _____

6. Typical gas stream temperature at inlet: 848 °F

If this form is being submitted as part of an application for an **Authority to Construct**, completion of the following table is mandatory. If not, and the Abatement Device is *already in operation*, completion of the table is requested but not required.

	Pollutant	Weight Percent Reduction (at typical operation)	Basis Codes (See Table**)
7.	Particulate	NA	
8.	Organics	82	3
9.	Nitrogen Oxides (as NO ₂)	NA	
10.	Sulfur Dioxide	NA	
11.	Carbon Monoxide	91	3
12.	Other:		
13.	Other:		

14. Check box if this Abatement Device burns fuel; complete lines 1, 2 and 15-36 on Form C (using the Abatement Device No. above for the Source No.) and attach to this form.

15. With regard to air pollutant flow from this abatement device, what sources(s), abatement device(s) and/or emission point(s) are **immediately** downstream?

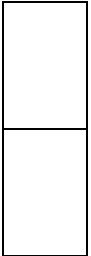
S- _____ A- _____ A- _____ A- _____ P- 4 P- _____

Person completing this form: <u>Keith McGregor</u>	Date: <u>06/03/2009</u>
----------------------------------------------------	-------------------------

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA . . . 94109 . . . (415) 749-4990 . . . Fax (415) 749-5030

Form P is for well-defined emission points such as stacks or chimneys only; do not use for windows, room vents, etc.



Business Name: Mariposa Energy, LLC Plant No: _____

Emission Point No: P-1

With regard to air pollutant flow into this emission point, what source(s) and/or abatement device(s) are **immediately** upstream?

S- 1 S- _____ S- _____ S- _____ S- _____
 S- _____ A- 1 A- 2 A- _____ A- _____ A- _____

Exit cross-section area: 113.1 sq. ft. Height above grade: 79.5 ft.

Effluent Flow from Stack

	<i>Typical Operating Condition</i>	<i>Maximum Operating Condition</i>
<i>Actual Wet Gas Flowrate</i>	1032441 cfm	1050333 cfm
<i>Percent Water Vapor</i>	7.4 Vol %	8.0 Vol %
<i>Temperature</i>	848 °F	780 °F

If this stack is equipped to measure (monitor) the emission of any air pollutants,

Is monitoring continuous? yes no

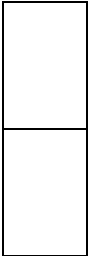
What pollutants are monitored? NOx, CO, O2

Person completing this form Keith McGregor Date 06/03/2009

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA . . . 94109 . . . (415) 749-4990 . . . Fax (415) 749-5030

Form P is for well-defined emission points such as stacks or chimneys only; do not use for windows, room vents, etc.



Business Name: Mariposa Energy, LLC Plant No: _____

Emission Point No: P-2

With regard to air pollutant flow into this emission point, what source(s) and/or abatement device(s) are **immediately** upstream?

S- 2 S- _____ S- _____ S- _____ S- _____
 S- _____ A- 3 A- 4 A- _____ A- _____ A- _____

Exit cross-section area: 113.1 sq. ft. Height above grade: 79.5 ft.

Effluent Flow from Stack

	<i>Typical Operating Condition</i>	<i>Maximum Operating Condition</i>
<i>Actual Wet Gas Flowrate</i>	1032441 cfm	1050333 cfm
<i>Percent Water Vapor</i>	7.4 Vol %	8.0 Vol %
<i>Temperature</i>	848 °F	780 °F

If this stack is equipped to measure (monitor) the emission of any air pollutants,

Is monitoring continuous? yes no

What pollutants are monitored? NOx, CO, O2

Person completing this form Keith McGregor Date 06/03/2009

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA . . . 94109 . . . (415) 749-4990 . . . Fax (415) 749-5030

Form P is for well-defined emission points such as stacks or chimneys only; do not use for windows, room vents, etc.

Business Name: Mariposa Energy, LLC Plant No: _____

Emission Point No: P-3

With regard to air pollutant flow into this emission point, what source(s) and/or abatement device(s) are **immediately** upstream?

S- 3 S- _____ S- _____ S- _____ S- _____
 S- _____ A- 5 A- 6 A- _____ A- _____ A- _____

Exit cross-section area: 113.1 sq. ft. Height above grade: 79.5 ft.

Effluent Flow from Stack

	<i>Typical Operating Condition</i>	<i>Maximum Operating Condition</i>
<i>Actual Wet Gas Flowrate</i>	1032441 cfm	1050333 cfm
<i>Percent Water Vapor</i>	7.4 Vol %	8.0 Vol %
<i>Temperature</i>	848 °F	780 °F

If this stack is equipped to measure (monitor) the emission of any air pollutants,

Is monitoring continuous? yes no

What pollutants are monitored? NOx, CO, O2

Person completing this form Keith McGregor Date 06/03/2009

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA . . . 94109 . . . (415) 749-4990 . . . Fax (415) 749-5030

Form P is for well-defined emission points such as stacks or chimneys only; do not use for windows, room vents, etc.



Business Name: Mariposa Energy, LLC Plant No: _____

Emission Point No: P-4

With regard to air pollutant flow into this emission point, what source(s) and/or abatement device(s) are **immediately** upstream?

S- 4 S- _____ S- _____ S- _____ S- _____
 S- _____ A- 7 A- 8 A- _____ A- _____ A- _____

Exit cross-section area: 113.1 sq. ft. Height above grade: 79.5 ft.

Effluent Flow from Stack

	<i>Typical Operating Condition</i>	<i>Maximum Operating Condition</i>
<i>Actual Wet Gas Flowrate</i>	1032441 cfm	1050333 cfm
<i>Percent Water Vapor</i>	7.4 Vol %	8.0 Vol %
<i>Temperature</i>	848 °F	780 °F

If this stack is equipped to measure (monitor) the emission of any air pollutants,

Is monitoring continuous? yes no

What pollutants are monitored? NOx, CO, O2

Person completing this form Keith McGregor Date 06/03/2009

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109. . . (415) 749-4990 . . . FAX (415) 749-5030 OR 4949
WEBSITE: WWW.BAAQMD.GOV

Health Risk Screening Analysis

IMPORTANT: For any permit application that requires a Health Risk Screening Analysis, fill out one form for each source that emits a Toxic Air Contaminant(s) [or for a group of sources that exhaust through a common stack]. Emissions can be from a discrete point source (with stack) or a source with fugitive emissions (area or volume source). You must provide a plot plan (drawn to scale, if possible) and a local map (aerial photos are recommended), which clearly demonstrate the location of your site, the source(s), property lines, and any surrounding buildings [see attached example]. Label streets, schools, residences, and other businesses. List major dimensions of all buildings surrounding the source in Section C.

Plant Name: Mariposa Energy, LLC Plant No.:
Source Description: GE LM600 PC-Sprint Combustion Turbine
Source No.: S-1 (if known) Emission Point No.: P-1 (if known)

SECTION A (Point Source)

- 1. Does the source exhaust at clearly defined emission point; i.e., a stack or exhaust pipe? [X] YES OR [] NO
2. Does the stack (or exhaust pipe) stand alone or is it located on the roof of a building? [X] alone OR [] on roof
3. What is the height of the stack outlet above ground level? 79.5 feet OR 24.2 meters?
4. What is the inside diameter of the stack outlet? inches OR 12 feet OR 3.66 meters
5. What is the direction of the exhaust from the stack outlet? [] horizontal OR [X] vertical
6. Is the stack outlet: [X] open or hinged rain flap OR [] rain capped (deflects exhaust downward or horizontally)
7. What is the exhaust flowrate during normal operation? 1,032,441 cfm (cubic feet/min) OR meters3/second
8. What is the typical temperature of the exhaust gas? 848 degrees Fahrenheit OR degrees Celsius

SECTION B (Area/Volume Source)

This section applies to fugitive emissions that are NOT captured by a collection system nor directly emitted through a stack or other emission point. Volume sources have fugitive emissions generally released within a building or other defined space (e.g., dry cleaner, gasoline station canopy). Area sources are generally flat areas of release (e.g., landfill, quarry).

- 1. Is the emission source located within a building? [] YES (go to #2) OR [] NO (go to #3)
2. If YES (source inside building), provide building dimensions on line B1 in Section C
a. Does the building have a ventilation system that is vented to the outside? [] YES OR [] NO
b. If NO (ventilation), are the building's doors & windows kept open during hours of operation? [] YES OR [] NO
3. If NO (source not inside building), provide a description of the source, dimensions, & indicate location on plot plan.

(Go on to Section C)

SECTION C (Building Dimensions)

Provide building dimensions. Use Line B1 only for building with source/stack on the roof or with fugitive emissions inside building. Use Lines B2-B9 for buildings surrounding the source (within 300 feet). Distance and direction are optional if map and/or aerial photo are adequately labeled with locations of buildings. Check one for units: feet OR meters

B#	Building name or description	Height	Width	Length	Distance To Source	Direction To Source
B1	CTG 1 (Air Inlet Filter Height)	33.2	13.5	56.5	n/a	n/a
B2	CTG 2 (Air Inlet Filter Height)	33.2	13.5	56.5		
B3	Admin Building	13.5	28	78		
B4	CTG3 (Air Inlet Filter Height)	33.2	13.5	56.5		
B5	CTG4 (Air Inlet Filter Height)	33.2	13.5	56.5		
B6	Power Distribution Center	18.5	25	80		
B7	Fuel Gas Compressor	25	52	98		
B8	Maintenance	23	52	98		
B9	Fire Pump Enclosure	10	12	28		

NOTE: Label buildings by B# on plot plan, map and/or aerial photo. Provide comments below for any details that need additional clarification (e.g., list buildings that are co-occupied by your employees and other workers, residents, students, etc).

Tank #1: 45 ft diameter, 45 ft high

Tank #2: 25 ft diameter, 25 ft high

Tank #3: 40 ft diameter, 40 ft high

(Go on to Section D)

SECTION D (Receptor Locations)

NOTE: Indicate on maps or aerial photos the residential and nonresidential areas surrounding your facility.

- Indicate the area where the source is located (check one):

<input type="checkbox"/> zoned for residential use	<input type="checkbox"/> zoned for mixed residential and commercial/industrial use
<input type="checkbox"/> zoned for commercial and/or industrial use	<input checked="" type="checkbox"/> zoned for agricultural use
- Distance from source (stack or building) to nearest facility property line = ~45 feet OR 13.4 meters
- Distance from source (stack or building) to the property line of the nearest residence = ~3,200 feet OR _____ meters
- Describe the nearest nonresidential property (check one): Industrial/Commercial OR Other _____
An aerial map showing the surrounding area and nearest non-residential receptor can be found in Section 5.6 of the AFC. (See Figure 5.6-1)
- Distance from source (stack or building) to property line of nearest nonresidential site = ~1,300 feet OR _____ meters
- Distance from source to property line of nearest school* (or school site) = _____ feet OR Greater than 1,000 feet
 [Note: Helpful website with California Dept. of Education data: www.greatschools.net]

Provide the names and addresses of all schools* that have property line(s) within 1,000 feet of the source:

An aerial map showing the nearest school can be found in Section 5.6 of the AFC. (See Figure 5.6-1)

*K-12 and more than twelve children only

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109. . . (415) 749-4990 . . . FAX (415) 749-5030 OR 4949
WEBSITE: WWW.BAAQMD.GOV

Health Risk Screening Analysis

IMPORTANT: For any permit application that requires a Health Risk Screening Analysis, fill out one form for each source that emits a Toxic Air Contaminant(s) [or for a group of sources that exhaust through a common stack]. Emissions can be from a discrete point source (with stack) or a source with fugitive emissions (area or volume source). You must provide a plot plan (drawn to scale, if possible) and a local map (aerial photos are recommended), which clearly demonstrate the location of your site, the source(s), property lines, and any surrounding buildings [see attached example]. Label streets, schools, residences, and other businesses. List major dimensions of all buildings surrounding the source in Section C.

Plant Name: Mariposa Energy, LLC Plant No.:
Source Description: GE LM600 PC-Sprint Combustion Turbine
Source No.: S-2 (if known) Emission Point No.: P-2 (if known)

SECTION A (Point Source)

- 1. Does the source exhaust at clearly defined emission point; i.e., a stack or exhaust pipe? [X] YES OR [] NO
2. Does the stack (or exhaust pipe) stand alone or is it located on the roof of a building? [X] alone OR [] on roof
3. What is the height of the stack outlet above ground level? 79.5 feet OR 24.2 meters?
4. What is the inside diameter of the stack outlet? inches OR 12 feet OR 3.66 meters
5. What is the direction of the exhaust from the stack outlet? [] horizontal OR [X] vertical
6. Is the stack outlet: [X] open or hinged rain flap OR [] rain capped (deflects exhaust downward or horizontally)
7. What is the exhaust flowrate during normal operation? 1,032,441 cfm (cubic feet/min) OR meters^3/second
8. What is the typical temperature of the exhaust gas? 848 degrees Fahrenheit OR degrees Celsius

SECTION B (Area/Volume Source)

This section applies to fugitive emissions that are NOT captured by a collection system nor directly emitted through a stack or other emission point. Volume sources have fugitive emissions generally released within a building or other defined space (e.g., dry cleaner, gasoline station canopy). Area sources are generally flat areas of release (e.g., landfill, quarry).

- 1. Is the emission source located within a building? [] YES (go to #2) OR [] NO (go to #3)
2. If YES (source inside building), provide building dimensions on line B1 in Section C
a. Does the building have a ventilation system that is vented to the outside? [] YES OR [] NO
b. If NO (ventilation), are the building's doors & windows kept open during hours of operation? [] YES OR [] NO
3. If NO (source not inside building), provide a description of the source, dimensions, & indicate location on plot plan.

(Go on to Section C)

SECTION C (Building Dimensions)

Provide building dimensions. Use Line B1 only for building with source/stack on the roof or with fugitive emissions inside building. Use Lines B2-B9 for buildings surrounding the source (within 300 feet). Distance and direction are optional if map and/or aerial photo are adequately labeled with locations of buildings. Check one for units: feet OR meters

B#	Building name or description	Height	Width	Length	Distance To Source	Direction To Source
B1	CTG 1 (Air Inlet Filter Height)	33.2	13.5	56.5		
B2	CTG 2 (Air Inlet Filter Height)	33.2	13.5	56.5		
B3	Admin Building	13.5	28	78		
B4	CTG3 (Air Inlet Filter Height)	33.2	13.5	56.5		
B5	CTG4 (Air Inlet Filter Height)	33.2	13.5	56.5		
B6	Power Distribution Center	18.5	25	80		
B7	Fuel Gas Compressor	25	52	98		
B8	Maintenance	23	52	98		
B9	Fire Pump Enclosure	10	12	28		

NOTE: Label buildings by B# on plot plan, map and/or aerial photo. Provide comments below for any details that need additional clarification (e.g., list buildings that are co-occupied by your employees and other workers, residents, students, etc).

Tank #1: 45 ft diameter, 45 ft high

Tank #2: 25 ft diameter, 25 ft high

Tank #3: 40 ft diameter, 40 ft high

(Go on to Section D)

SECTION D (Receptor Locations)

NOTE: Indicate on maps or aerial photos the residential and nonresidential areas surrounding your facility.

1. Indicate the area where the source is located (check one):

- zoned for residential use zoned for mixed residential and commercial/industrial use
 zoned for commercial and/or industrial use zoned for agricultural use

2. Distance from source (stack or building) to nearest facility property line = ~45 feet OR 13.4 meters

3. Distance from source (stack or building) to the property line of the nearest residence = ~3,200 feet OR _____ meters

4. Describe the nearest nonresidential property (check one): Industrial/Commercial OR Other _____

An aerial map showing the surrounding area and nearest non-residential receptor can be found in Section 5.6 of the AFC. (See Figure 5.6-1)

5. Distance from source (stack or building) to property line of nearest nonresidential site = ~1,150 feet OR _____ meters

6. Distance from source to property line of nearest school* (or school site) = _____ feet OR Greater than 1,000 feet

[Note: Helpful website with California Dept. of Education data: www.greatschools.net]

Provide the names and addresses of all schools* that have property line(s) within 1,000 feet of the source:

An aerial map showing the nearest school can be found in Section 5.6 of the AFC. (See Figure 5.6-1)

*K-12 and more than twelve children only

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109. . . (415) 749-4990 . . . FAX (415) 749-5030 OR 4949
WEBSITE: WWW.BAAQMD.GOV

Health Risk Screening Analysis

IMPORTANT: For any permit application that requires a Health Risk Screening Analysis, fill out one form for each source that emits a Toxic Air Contaminant(s) [or for a group of sources that exhaust through a common stack]. Emissions can be from a discrete point source (with stack) or a source with fugitive emissions (area or volume source). You must provide a plot plan (drawn to scale, if possible) and a local map (aerial photos are recommended), which clearly demonstrate the location of your site, the source(s), property lines, and any surrounding buildings [see attached example]. Label streets, schools, residences, and other businesses. List major dimensions of all buildings surrounding the source in Section C.

Plant Name: Mariposa Energy, LLC Plant No.:
Source Description: GE LM600 PC-Sprint Combustion Turbine
Source No.: S-3 (if known) Emission Point No.: P-3 (if known)

SECTION A (Point Source)

- 1. Does the source exhaust at clearly defined emission point; i.e., a stack or exhaust pipe? [X] YES OR [] NO
2. Does the stack (or exhaust pipe) stand alone or is it located on the roof of a building? [X] alone OR [] on roof
3. What is the height of the stack outlet above ground level? 79.5 feet OR 24.2 meters?
4. What is the inside diameter of the stack outlet? inches OR 12 feet OR 3.66 meters
5. What is the direction of the exhaust from the stack outlet? [] horizontal OR [X] vertical
6. Is the stack outlet: [X] open or hinged rain flap OR [] rain capped (deflects exhaust downward or horizontally)
7. What is the exhaust flowrate during normal operation? 1,032,441 cfm (cubic feet/min) OR meters^3/second
8. What is the typical temperature of the exhaust gas? 848 degrees Fahrenheit OR degrees Celsius

SECTION B (Area/Volume Source)

This section applies to fugitive emissions that are NOT captured by a collection system nor directly emitted through a stack or other emission point. Volume sources have fugitive emissions generally released within a building or other defined space (e.g., dry cleaner, gasoline station canopy). Area sources are generally flat areas of release (e.g., landfill, quarry).

- 1. Is the emission source located within a building? [] YES (go to #2) OR [] NO (go to #3)
2. If YES (source inside building), provide building dimensions on line B1 in Section C
a. Does the building have a ventilation system that is vented to the outside? [] YES OR [] NO
b. If NO (ventilation), are the building's doors & windows kept open during hours of operation? [] YES OR [] NO
3. If NO (source not inside building), provide a description of the source, dimensions, & indicate location on plot plan.

(Go on to Section C)

SECTION C (Building Dimensions)

Provide building dimensions. Use Line B1 only for building with source/stack on the roof or with fugitive emissions inside building. Use Lines B2-B9 for buildings surrounding the source (within 300 feet). Distance and direction are optional if map and/or aerial photo are adequately labeled with locations of buildings. Check one for units: feet OR meters

B#	Building name or description	Height	Width	Length	Distance To Source	Direction To Source
B1	CTG 1 (Air Inlet Filter Height)	33.2	13.5	56.5		
B2	CTG 2 (Air Inlet Filter Height)	33.2	13.5	56.5		
B3	Admin Building	13.5	28	78		
B4	CTG3 (Air Inlet Filter Height)	33.2	13.5	56.5		
B5	CTG4 (Air Inlet Filter Height)	33.2	13.5	56.5		
B6	Power Distribution Center	18.5	25	80		
B7	Fuel Gas Compressor	25	52	98		
B8	Maintenance	23	52	98		
B9	Fire Pump Enclosure	10	12	28		

NOTE: Label buildings by B# on plot plan, map and/or aerial photo. Provide comments below for any details that need additional clarification (e.g., list buildings that are co-occupied by your employees and other workers, residents, students, etc).

Tank #1: 45 ft diameter, 45 ft high

Tank #2: 25 ft diameter, 25 ft high

Tank #3: 40 ft diameter, 40 ft high

(Go on to Section D)

SECTION D (Receptor Locations)

NOTE: Indicate on maps or aerial photos the residential and nonresidential areas surrounding your facility.

1. Indicate the area where the source is located (check one):

- zoned for residential use zoned for mixed residential and commercial/industrial use
 zoned for commercial and/or industrial use zoned for agricultural use

2. Distance from source (stack or building) to nearest facility property line = ~45 feet OR 13.4 meters

3. Distance from source (stack or building) to the property line of the nearest residence = ~3,200 feet OR _____ meters

4. Describe the nearest nonresidential property (check one): Industrial/Commercial OR Other _____

An aerial map showing the surrounding area and nearest non-residential receptor can be found in Section 5.6 of the AFC. (See Figure 5.6-1)

5. Distance from source (stack or building) to property line of nearest nonresidential site = ~1,000 feet OR _____ meters

6. Distance from source to property line of nearest school* (or school site) = _____ feet OR Greater than 1,000 feet

[Note: Helpful website with California Dept. of Education data: www.greatschools.net]

Provide the names and addresses of all schools* that have property line(s) within 1,000 feet of the source:

An aerial map showing the nearest school can be found in Section 5.6 of the AFC. (See Figure 5.6-1)

*K-12 and more than twelve children only

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109. . . (415) 749-4990 . . . FAX (415) 749-5030 OR 4949
WEBSITE: WWW.BAAQMD.GOV

Health Risk Screening Analysis

IMPORTANT: For any permit application that requires a Health Risk Screening Analysis, fill out one form for each source that emits a Toxic Air Contaminant(s) [or for a group of sources that exhaust through a common stack]. Emissions can be from a discrete point source (with stack) or a source with fugitive emissions (area or volume source). You must provide a plot plan (drawn to scale, if possible) and a local map (aerial photos are recommended), which clearly demonstrate the location of your site, the source(s), property lines, and any surrounding buildings [see attached example]. Label streets, schools, residences, and other businesses. List major dimensions of all buildings surrounding the source in Section C.

Plant Name: Mariposa Energy, LLC Plant No.:
Source Description: GE LM600 PC-Sprint Combustion Turbine
Source No.: S-4 (if known) Emission Point No.: P-4 (if known)

SECTION A (Point Source)

- 1. Does the source exhaust at clearly defined emission point; i.e., a stack or exhaust pipe? [X] YES OR [] NO
2. Does the stack (or exhaust pipe) stand alone or is it located on the roof of a building? [X] alone OR [] on roof
3. What is the height of the stack outlet above ground level? 79.5 feet OR 24.2 meters?
4. What is the inside diameter of the stack outlet? inches OR 12 feet OR 3.66 meters
5. What is the direction of the exhaust from the stack outlet? [] horizontal OR [X] vertical
6. Is the stack outlet: [X] open or hinged rain flap OR [] rain capped (deflects exhaust downward or horizontally)
7. What is the exhaust flowrate during normal operation? 1,032,441 cfm (cubic feet/min) OR meters^3/second
8. What is the typical temperature of the exhaust gas? 848 degrees Fahrenheit OR degrees Celsius

SECTION B (Area/Volume Source)

This section applies to fugitive emissions that are NOT captured by a collection system nor directly emitted through a stack or other emission point. Volume sources have fugitive emissions generally released within a building or other defined space (e.g., dry cleaner, gasoline station canopy). Area sources are generally flat areas of release (e.g., landfill, quarry).

- 1. Is the emission source located within a building? [] YES (go to #2) OR [] NO (go to #3)
2. If YES (source inside building), provide building dimensions on line B1 in Section C
a. Does the building have a ventilation system that is vented to the outside? [] YES OR [] NO
b. If NO (ventilation), are the building's doors & windows kept open during hours of operation? [] YES OR [] NO
3. If NO (source not inside building), provide a description of the source, dimensions, & indicate location on plot plan.

(Go on to Section C)

SECTION C (Building Dimensions)

Provide building dimensions. Use Line B1 only for building with source/stack on the roof or with fugitive emissions inside building. Use Lines B2-B9 for buildings surrounding the source (within 300 feet). Distance and direction are optional if map and/or aerial photo are adequately labeled with locations of buildings. Check one for units: feet OR meters

B#	Building name or description	Height	Width	Length	Distance To Source	Direction To Source
B1	CTG 1 (Air Inlet Filter Height)	33.2	13.5	56.5		
B2	CTG 2 (Air Inlet Filter Height)	33.2	13.5	56.5		
B3	Admin Building	13.5	28	78		
B4	CTG3 (Air Inlet Filter Height)	33.2	13.5	56.5		
B5	CTG4 (Air Inlet Filter Height)	33.2	13.5	56.5		
B6	Power Distribution Center	18.5	25	80		
B7	Fuel Gas Compressor	25	52	98		
B8	Maintenance	23	52	98		
B9	Fire Pump Enclosure	10	12	28		

NOTE: Label buildings by B# on plot plan, map and/or aerial photo. Provide comments below for any details that need additional clarification (e.g., list buildings that are co-occupied by your employees and other workers, residents, students, etc).

Tank #1: 45 ft diameter, 45 ft high

Tank #2: 25 ft diameter, 25 ft high

Tank #3: 40 ft diameter, 40 ft high

(Go on to Section D)

SECTION D (Receptor Locations)

NOTE: Indicate on maps or aerial photos the residential and nonresidential areas surrounding your facility.

- Indicate the area where the source is located (check one):

<input type="checkbox"/> zoned for residential use	<input type="checkbox"/> zoned for mixed residential and commercial/industrial use
<input type="checkbox"/> zoned for commercial and/or industrial use	<input checked="" type="checkbox"/> zoned for agricultural use
- Distance from source (stack or building) to nearest facility property line = ~45 feet OR 13.4 meters
- Distance from source (stack or building) to the property line of the nearest residence = ~3,200 feet OR _____ meters
- Describe the nearest nonresidential property (check one): Industrial/Commercial OR Other _____
An aerial map showing the surrounding area and nearest non-residential receptor can be found in Section 5.6 of the AFC. (See Figure 5.6-1)
- Distance from source (stack or building) to property line of nearest nonresidential site = ~800 feet OR _____ meters
- Distance from source to property line of nearest school* (or school site) = _____ feet OR Greater than 1,000 feet
 [Note: Helpful website with California Dept. of Education data: www.greatschools.net]

Provide the names and addresses of all schools* that have property line(s) within 1,000 feet of the source:

An aerial map showing the nearest school can be found in Section 5.6 of the AFC. (See Figure 5.6-1)

*K-12 and more than twelve children only

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109. . . (415) 749-4990 . . . FAX (415) 749-5030 OR 4949

WEBSITE: WWW.BAAQMD.GOV

Health Risk Screening Analysis

IMPORTANT: For any permit application that requires a Health Risk Screening Analysis, fill out one form for each source that emits a Toxic Air Contaminant(s) [or for a group of sources that exhaust through a common stack]. Emissions can be from a discrete point source (with stack) or a source with fugitive emissions (area or volume source). You must provide a plot plan (drawn to scale, if possible) and a local map (aerial photos are recommended), which clearly demonstrate the location of your site, the source(s), property lines, and any surrounding buildings [see attached example]. Label streets, schools, residences, and other businesses. List major dimensions of all buildings surrounding the source in Section C.

Plant Name: <u>Mariposa Energy, LLC</u>	Plant No.: _____
Source Description: <u>Diesel Fire Pump Driver</u>	
Source No.: S-5 _____ (if known)	Emission Point No.: P-5 _____ (if known)

SECTION A (Point Source)

1. Does the source exhaust at clearly defined emission point; i.e., a stack or exhaust pipe? YES OR NO
(If YES continue at #2, If NO, skip to Section B)
2. Does the stack (or exhaust pipe) stand alone or is it located on the roof of a building? alone OR on roof
Important: If stack is on a roof, provide building dimensions on line B1 in Section C.
3. What is the height of the stack outlet above ground level? 12 feet OR _____ meters?
4. What is the inside diameter of the stack outlet? 6 inches OR _____ feet OR _____ meters
5. What is the direction of the exhaust from the stack outlet? horizontal OR vertical
6. Is the stack outlet: open or hinged rain flap OR rain capped (deflects exhaust downward or horizontally)
7. What is the exhaust flowrate during normal operation? 1,363 cfm (cubic feet/min) OR _____ meters³/second
8. What is the typical temperature of the exhaust gas? 874 degrees Fahrenheit OR _____ degrees Celsius
(Skip Section B and Go on to Section C)

SECTION B (Area/Volume Source)

This section applies to fugitive emissions that are NOT captured by a collection system nor directly emitted through a stack or other emission point. Volume sources have fugitive emissions generally released within a building or other defined space (e.g., dry cleaner, gasoline station canopy). Area sources are generally flat areas of release (e.g., landfill, quarry).

1. Is the emission source located within a building? YES (go to #2) OR NO (go to #3)
2. If YES (source inside building), provide building dimensions on line B1 in Section C
 - a. Does the building have a ventilation system that is vented to the outside? YES OR NO
 - b. If NO (ventilation), are the building's doors & windows kept open during hours of operation? YES OR NO
3. If NO (source not inside building), provide a description of the source, dimensions, & indicate location on plot plan.

(Go on to Section C)

SECTION C (Building Dimensions)

Provide building dimensions. Use Line B1 only for building with source/stack on the roof or with fugitive emissions inside building. Use Lines B2-B9 for buildings surrounding the source (within 300 feet). Distance and direction are optional if map and/or aerial photo are adequately labeled with locations of buildings. Check one for units: feet OR meters

B#	Building name or description	Height	Width	Length	Distance To Source	Direction To Source
B1	CTG 1 (Air Inlet Filter Height)	33.2	13.5	56.5		
B2	CTG 2 (Air Inlet Filter Height)	33.2	13.5	56.5		
B3	Admin Building	13.5	28	78		
B4	CTG3 (Air Inlet Filter Height)	33.2	13.5	56.5		
B5	CTG4 (Air Inlet Filter Height)	33.2	13.5	56.5		
B6	Power Distribution Center	18.5	25	80		
B7	Fuel Gas Compressor	25	52	98		
B8	Maintenance	23	52	98		
B9	Fire Pump Enclosure	10	12	28		

NOTE: Label buildings by B# on plot plan, map and/or aerial photo. Provide comments below for any details that need additional clarification (e.g., list buildings that are co-occupied by your employees and other workers, residents, students, etc).

Tank #1: 45 ft diameter, 45 ft high

Tank #2: 25 ft diameter, 25 ft high

Tank #3: 40 ft diameter, 40 ft high

(Go on to Section D)

SECTION D (Receptor Locations)

NOTE: Indicate on maps or aerial photos the residential and nonresidential areas surrounding your facility.

1. Indicate the area where the source is located (check one):

- zoned for residential use zoned for mixed residential and commercial/industrial use
 zoned for commercial and/or industrial use zoned for agricultural use

2. Distance from source (stack or building) to nearest facility property line = ~40 feet OR 12 meters

3. Distance from source (stack or building) to the property line of the nearest residence = ~3,200 feet OR _____ meters

4. Describe the nearest nonresidential property (check one): Industrial/Commercial OR Other _____

An aerial map showing the surrounding area and nearest non-residential receptor can be found in Section 5.6 of the AFC. (See Figure 5.6-1)

5. Distance from source (stack or building) to property line of nearest nonresidential site = ~450 feet OR _____ meters

6. Distance from source to property line of nearest school* (or school site) = _____ feet OR Greater than 1,000 feet

[Note: Helpful website with California Dept. of Education data: www.greatschools.net]

Provide the names and addresses of all schools* that have property line(s) within 1,000 feet of the source:

An aerial map showing the nearest school can be found in Section 5.6 of the AFC. (See Figure 5.6-1)

*K-12 and more than twelve children only