# BAAQMD Permit Application

#### **Permit Services Division**

**Bay Area Air Quality Management District** 939 Ellis Street, San Francisco, CA 94109 / (415) 771-6000

Form	<b>P</b> <sub>-</sub> 1	<b>01</b>	C
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Application # _	
• •	(For District Use)

PLANT# **BUSINESS NAME: Mariposa Energy, LLC** 

#### APPLICATION FOR SYNTHETIC MINOR OPERATING PERMIT

This application form is to be used for all initial applications for synthetic minor operating permits, as well as for applications to modify synthetic minor operating permits. It is to be used in lieu of District P-101B. Note: if a proposed modification would increase emissions above any threshold for a major facility, then the plant must apply for an authority to construct using form P-101B and must apply for an MFR permit in accordance with Regulation 2, Rule 6, Major Facility Review.

Other Bus	Street Address or P O Box	1570, Lo	os Angeles, CA 90	State	
Plant Address	Phone Number (213) 473-0092  Street Address or P O Box Phone Number	City		213) 620-1170_ State	Zip Code
Plant Contact Bo Buchynsky Title Executive Director Plant Contact's Company (if different from above) Relation to Project Responsible Official Title Principal Product/Operation Electrical Generation/Peaking Units Number of Permitted Sources 5					
☐ Initial A ☐ Applica ☐ Revisio	Application for Synthetic Minor Permit Application for Synthetic Minor Permit Application for New or Modified Source(s) and to Existing Federally Enforceable Conditions to Existing Non Fed. Enforceable Conditions		=		*

### In order to expedite your application the following items must be enclosed:

- Form SMOP-ES (Emissions Summary)
- Form SMOP-EX (Exempt Sources)
- **Emission Calculations**

- **Proposed Permit Conditions**
- Proposed Record-keeping Requirements
- Source Offsets (if applicable

#### In addition to the above, applications for new and modified sources must include the following:

- Project Description and Flow Diagram
- BAAQMD Data Forms Mfr.'s Equipment Description & Data

#### **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.

A	CKNO	WLED	GEMENT (	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 / (415) 771-6000

Synthetic	Minor	Operating	Permit
1	Form SI	MOP-EX	

BUSINESS NAME: Mariposa Energy, LLC PLANT #	7.=	

#### LIST OF EXEMPT SOURCES OR ACTIVITIES

The total emissions (including all fugitive emissions of regulated air pollutants from source categories listed in the Manual of Procedures Volume II, Part 3, Section 3; and all fugitive emissions of hazardous air pollutants) of the exempt sources and/or activities listed below, and of the sources listed on Form SMOP-ES (attached) must be: less than 95 tons per year of any regulated air pollutant; less that 9 tons per year of any single hazardous air pollutant; and less than 23 tons per year of any combination of hazardous air pollutants. Please attach emission calculations and proposed permit conditions for any exempt source or activity, or any group of exempt sources or activities that will require physical or operational limits in order for the facility to comply with the permitted emission limits.

Source # (IF AVAIL.)	Source Activity or Description	EQUIPMENT DESCRIPTION	# OF EQUIPMENT UNITS
S1-S4	Electrical Generation/Peaking Units	Combustion Turbines	4
S5	Fire Suppression	Fire Pump	1
		li .	
		.1	1

Palda	a budynsky	June
Signature of Responsible Official		Date
Bohdan	Buchy usky	

Name of Responsible Official

June 4, 2009

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

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<b>Synthetic Minor Operating Permit</b>		
Form SMOP-EF		

BUSINESS NAME:	Mariposa Energy, LLC	PLANT #:
DUDINEDD MAME.	F	A ADJAN A M.

#### 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 (tous per year)
NOx	48.6	0	48.6
со	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

Signature of Responsible Official

Bohdan Boohynsky
Print Name of Responsible Official

Title of Responsible Official and Company Name

Date: June 4, 2009

smop-ef/myl

## Permit Services Division Bay Area Air Quality Management District 939 Ellis Street, San Francisco, CA 94109 / (415) 771-6000

#### Synthetic Minor Operating Permit Form SMOP-ES

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
\$1,2,3,4	Combustion Turbine	A1-8	PM <sub>10/2.5</sub>	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 NA	NOx	<0.00001	<0.0001
S5	Fire Pump	NA	CO	<0.00001	<0.0001
S5	Fire Pump	l NA	VOC	<0.00001	<0.0001
S5	Fire Pump	NA	SOx	<0.00001	<0.0001
S5	Fire Pump	NA NA	PM <sub>10/2.5</sub>	<0.00001	<0.0001
S5	Fire Pump	NA	All HAPs	<0.00001	<0.0001
			1		

#### 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 DESCRIPTION	ABATED BY DEVICE # (IF APPLICABLE)
SCR NOx Control	NA
Oxidation Catalyst	NA

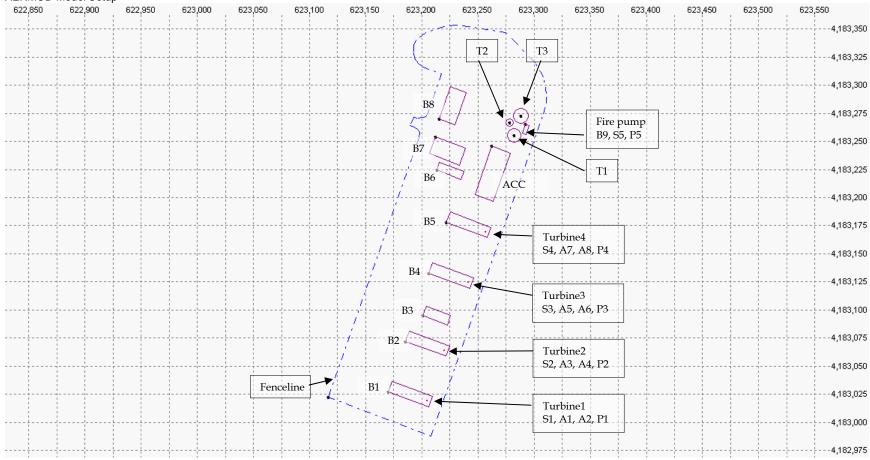
Attach all necessary emissions calculations.

Signature of Responsible Official

Puchynsky

June 4, 2009 Date Mariposa Energy Project BAAQMD Permit Application Package June 2009

AERMOD Model Setup



UTM NAD27, Zone 10

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 Exem	ption								
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									
Engine Type: (Check one)	☐ 4 Stroke ☐ 2 Stroke Spark Ignition								
Engine Manufacturer Cummins Model CFP7E-F40 or equ	, , ,								
EPA/CARB Engine Family Name 9CEXL0409AAB Engine Serial N									
- · · · · · · · · · · · · · · · · · · ·	pical 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 to									
☐ Naturally aspirated ☐ Supercharged ☐ Turbocharged	☐ Inter-cooled ☐ After-cooled								
☐ Timing retard ≥ 4º ☐ Lean-burn ☐ Rich-burn	_								
Primary Use:	☑ Fire pump driver								
☐ Compressor driver ☐ Tub grinder driver ☐ Other:	_ · ·								
<ol> <li>ABATEMENT DEVICE INFORMATION Complete this section only if the engine exhausts to Check here if the engine has more than one add-on abatement device and complete a second abatement device.</li> </ol>									
Abatement device number A (If unknown leave blank)	ting								
Device type: ☐ Diesel catalyzed particulate filter ☐ Oxidation catalyst ☐ Selectiv	e catalytic reduction (SCR)								
☐ Non-selective catalytic reduction (NSCR or 3-way catalyst) ☐ Other:									
Make, Model, and Rated Capacity									
wake, woder, and rated dapacity									
Abatement device control efficiencies at typical operation (Use the basis codes listed below. I	f unknown leave blank)								
	f unknown leave blank)  Wt % Basis Pollutant Name Reduction Code								
Abatement device control efficiencies at typical operation (Use the basis codes listed below.	Wt % Basis								
Abatement device control efficiencies at typical operation (Use the basis codes listed below. I Control Efficiency/Emission Factor Basis Codes: (Submit supporting documentation if available)	Pollutant Name Wt % Basis Code								
Abatement device control efficiencies at typical operation (Use the basis codes listed below.  Control Efficiency/Emission Factor Basis Codes: (Submit supporting documentation if available)  (1) Source testing or other measurement by plant  (8) Guess	Pollutant Name Wt % Basis Code Particulates								
Abatement device control efficiencies at typical operation (Use the basis codes listed below, in a 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	Pollutant Name Wt % Reduction Code  Particulates  Organics  Nitrogen Oxides  Sulfur Dioxide								
Abatement device control efficiencies at typical operation (Use the basis codes listed below. It is 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)	Pollutant Name Wt % Reduction Code  Particulates  Organics  Nitrogen Oxides  Sulfur Dioxide  Carbon Monoxide								
Abatement device control efficiencies at typical operation (Use the basis codes listed below, in a 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	Pollutant Name Wt % Reduction Code  Particulates  Organics  Nitrogen Oxides  Sulfur Dioxide								

(District Use Only)

#### Form ICE

### Internal Combustion Engines

Form ICE Rev 03/02/06 Page 2 of 2

4 EMISSION POI emission monito					e engine has more th int	nan one stack or	has a continue	ous pollu	ıtant		
Emission point nu	mber P -5	(If un	known le	eave blanı	k) 🛛 New 🗌 Ex	xisting					
Stack outlet height	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 typ	oical operation <i>(a</i>	cfm) <u>1,363</u>		Exha	ust temperature at t	ypical operation	(ºF) <u>874</u>				
5. RISK ASSESSI	MENT INFORMA	TION.									
Distance from eng	ine to the proper	ty line of the ne	earest re	sidence (	ft) ~3,200	or (check if)	☐ Greate	er than o	ne mile		
Distance from eng	ine to the proper	ty line of the ne	earest so	chool <sup>1</sup> (ft)		or (check if)	□ Greate	er than 1	000 ft		
Describe the near	est non-residenti	al, non-school	site (che	eck one)	Industrial	☐ Commercial	☐ Hospit	tal			
			Day car	re center	Other						
Distance from eng	ine to the proper	ty line of the ne	earest no	on-resider	ntial, non- school site	e(ft) ~450	or 🔲 Grea	ter than	one mile		
1. K-12 and more t	han twelve childrei	only.									
attach a fuel and measurement ur	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 <sup>1</sup> 98	Name	Diesel			Fuel Code <sup>1</sup> NA	Name	NA				
Maximum Fuel Use	Rate <sup>2</sup> 11.3	M2 1 1 11	gal/hr o	r SCF/hr	Maximum Fuel Use	Rate <sup>2</sup>		gal/hr or	SCF/hr		
Annual Fuel Usage	<sup>3</sup> 45.2	gal/yr or tl	nerm/yr o	r SCF/yr	Annual Fuel Usage	3	gal/yr or t	herm/yr o	r SCF/yr		
Typical Heat Conte	nt <sup>4</sup> NA	BTU	/gal or B	TU/SCF	Typical Heat Conter	nt⁴	BTL	l/gal or B	TU/SCF		
Sulfur Content4	15 ppm	wt% liquia	s or ppm	v gases	Sulfur Content4		wt% liquid	ds or ppm	v gases		
	Emission Fact	ors (Optional)				Emission Facto	ors (Optional)				
Pollutant Name	Emission Factor	Units <sup>5</sup>	Basis Code <sup>6</sup>	Abated Factor (√) <sup>7</sup>	Pollutant Name	Emission Factor	Units⁵	Basis Code <sup>6</sup>	Abated Factor (√) <sup>7</sup>		
Particulates	0.111	grams/bhp-hr			Particulates						
Organics	0.062	grams/bhp-hr			Organics						
Nitrogen Oxides	2.544	grams/bhp-hr			Nitrogen Oxides						
Carbon Monoxide	1.193	grams/bhp-hr			Carbon Monoxide						
Others - Check		separate list und	er each f	uel used.	Others -  Check	here and attach a s	separate list und	ler each f	uel used.		
	atural Gas ( <b>189</b> )	Bio Diesel B10 Landfill Gas (5:	11) (	Digester G		iasoline ( <b>551</b> ) iquid Petroleum Ga iandard Cubia Foot					
					n over a rolling 12-mor			s: gallons	for		
liquid fuel, therm	ns for natural gas, a	and SCF for othe	r gaseous	s fuels. (th	erm = 100,000 BTUs, E . Heat content units: E	3TU ≃British Therm	nal Unit)	•			
fuels. Sulfur cor	ntent units: weight	% for liquid fuels,	ppmv fo	r gaseous f	uels. (ppmv = parts pe	er million by volume		r ror gao	5000		
		- :			on, or as Ib per therm, or tion 3 on page 1 of this	•					
	•				<u>after</u> abatement by an		device.				
7. CERTIFICATIO	N I hereby certify	that all inform	ation co	ntained h	erein is true and corr	ect. (Please sign	n and date this	s form)			
Bohdan b	Bochynsky	Tue True	coeur	er/an	1, Sec. Per	leday Br	culynyle	6/9	1/2009		
Name of person	certifying (print) /	Title of p	erson cer	tifvina	Signature	e of person certifyir	10	Date	100		
	continying (print)			, 3		,	-5				

Data Form C **FUEL COMBUSTION SOURCE** 

939	Ellis	Street	San Francisco,	CA 94109	(415)7	49-4990 .	fax (	415)	749-5030

Website: www.baaqmd.gov

Person completing this form:

Keith McGregor

form.

	(for District use or	nly)
Nev	v □ Modified □	Retro □

Date: 06/03/2009

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

L		nis source has a se on Form A (using t						
							(If unknown, leave bl	•
1.	Company Name:	Mariposa Energy				Plant No:		ce No. 1
2.	Equipment Name 8	R Number, or Descri	ription: (	GE LM6000 PC	C-Sprint C	ombustion Tu	rbine	
3.	Make, Model: G	E LM6000 PC-Spri	int Combust	tion Turbine	M	laximum firing	rate: 481 MM	Btu/hr
4.	Date of modificatio	n or initial operation	n: <u>2012</u>	(if	unknown,	leave blank)		
5.	Primary use (check	abat	trical genera ement devid ess heat; m		oace heat ogeneratio	on 🔲 res	ste disposal source recovery	testing other
6.	SIC Number	own leave blank						
7.	Equipment type (ch	neck one)						
	Internal combustion	Use Form ICE (In	ternal Coml	bustion Engine	e) unless it	t is a gas turbi	ine	
		⊠ gas turbine □ other				hp		
	Incinerator	salvage opera liquid waste	tion	pathologi			Temperature Residence tim	°F leSec
	Others	☐ boiler ☐ afterburner ☐ flare ☐ open burning ☐ other		dryer oven furnace	Mate	erial dried, bal	ked, or heated:	
9.	Overfire air? Flue gas recircular Air preheat?	tion?	⊠ no ⊠ no ⊠ no	If yes, what put of the second	percent	% % °F		
11.	Low NO <sub>X</sub> burners?	P ⊠ yes	no	Make, Mode	I GE Wate	er Injected Cor	mbustors_	
12.	Maximum flame te	emperature <u>NA</u> °	F					
13.	Combustion produ Typical Oxygen Co	icts: Wet gas flow ontent <u>14.4</u> dry vo				% exc	ess air	
14.	Typical Use 1	1 hours/day	_7	_ days/week		52 week	s/year	
15.	Typical % of annu	al total: Dec-Feb	<u>25</u> %	Mar-May	<u>25</u> %	Jun-Aug <u>2</u>	<u>.5</u> % Sep-I	Nov <u>25</u> %
16.	With regard to air S 1 S	pollutant flow, what					-	Α
	With regard to air DOWNSTREAM?  S S	pollutant flow, what	, ,		, ,		on points are imm	nediately
			^ _	' <u>'</u>	<u> </u>			

#### **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.								

Use the appropriate	Natural Gas	therm*	Btu/hr	N/A	N/A	N/A	N/A
units for each fuel	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)

			Particu	lates	NO	х	CO	C
	Fuel Name	Fuel Code**				**Basis		
			Factor	Code	Factor	Code	Factor	Code
1.								
2.								
3.								
4.								

Use the appropriate units for each fuel: Natural Gas = Ib/therm\*

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

(revised: 6/01)

**Data Form C FUEL COMBUSTION SOURCE** 

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

Website: www.baaqmd.gov

Person completing this form:

Keith McGregor

	(for District use only)	
Ne	w □ Modified □ Retro	

Date: 06/03/2009

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.

L		his source has a secondary on Form A (using the sourc			
				(If unkno	own, leave blank)
1.	Company Name:	Mariposa Energy, LLC		Plant No:	Source No. 2
2.	Equipment Name 8	& Number, or Description:	GE LM6000 PC-Sprii	nt Combustion Turbine	
3.	Make, Model: G	SE LM6000 PC-Sprint Comb	ustion Turbine	Maximum firing rate:	481 MM Btu/hr
4.	Date of modificatio	on or initial operation: 20	12 (if unkno	wn, leave blank)	
5.	Primary use (check	abatement de	evice 🗌 cogenei	ration waste dispration resource i	ecovery  other
6.	SIC Number 4931	own leave blank			
7.	Equipment type (ch	heck one)			
	Internal combustion	Use Form ICE (Internal Co	ombustion Engine) unle	ss it is a gas turbine	
		⊠ gas turbine □ other		hp	
	Incinerator	salvage operation	pathological wa	ste Tem	perature°F
	moniorato.	☐ liquid waste			idence timeSec
	Others	☐ boiler ☐ afterburner ☐ flare ☐ open burning ☐ other	☐ dryer ☐ oven ☐ furnace I ☐ kiln _	Material dried, baked, or	heated:
9.	Overfire air? Flue gas recircula Air preheat?	yes ⊠ no ution? □ yes ⊠ no □ yes ⊠ no □ yes ⊠ no	If yes, what percen If yes, what percen Temperature	ıt%	
11.	Low NO <sub>x</sub> burners	? ⊠ yes □ no	Make. Model GE V	 Vater Injected Combusto	rs
12.	Maximum flame to	emperature <u>NA</u> °F	,	•	
13.		ucts: Wet gas flowrate <u>105</u> Content <u>14.4</u> dry volume %			
14.	Typical Use 1	1 hours/day 7	days/week	52 weeks/year	
15.	Typical % of annu	ual total: Dec-Feb <u>25</u> %	Mar-May <u>25</u> %	Jun-Aug <u>25</u> %	Sep-Nov <u>25</u> %
16.	ŭ	pollutant flow, what source(	•	` '	
	DOWNSTREAM?		,	. ,	ts are immediately
	s s	A 3 A	<u>4</u> <b>P</b> <u>2</u>	P	
		<u> </u>			

#### **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.								

Use the appropriate	Natural Gas	therm*	Btu/hr	N/A	N/A	N/A	N/A
units for each fuel	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)

			Particu	lates	NO	х	CO	C
	Fuel Name	Fuel Code**				**Basis		
			Factor	Code	Factor	Code	Factor	Code
1.								
2.								
3.								
4.								

Use the appropriate units for each fuel: Natural Gas = Ib/therm\*

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

(revised: 6/01)

Data Form C **FUEL COMBUSTION SOURCE** 

939	Ellis	Street	San Francisco,	CA 94109	(415)7	49-4990 .	fax (	415)	749-5030

Website: www.baaqmd.gov

DOWNSTREAM?

 (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. 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 (if unknown, leave blank) ☑ electrical generation☐ space heat☐ abatement device☐ cogeneration ☐ waste disposal☐ resource recovery 5. Primary use (check one): testing other process heat; material heated\_\_\_\_\_ 6. SIC Number 4931 If unknown leave blank 7. Equipment type (check one) Internal Use Form ICE (Internal Combustion Engine) unless it is a gas turbine combustion gas turbine other \_\_\_\_ pathological waste Temperature Incinerator salvage operation other \_\_\_\_\_ Residence time \_\_\_\_ Sec ☐ liquid waste Others boiler dryer afterburner oven flare ☐ furnace Material dried, baked, or heated: open burning kiln other If yes, what percent \_\_\_\_\_% 8. Overfire air? yes  $\bowtie$  no 9. Flue gas recirculation?  $\bowtie$  no If yes, what percent yes Temperature ∘<sub>F</sub> 10. Air preheat? yes  $\boxtimes$  no 11. Low NO<sub>x</sub> burners? ⊠ ves Make, Model GE Water Injected Combustors 12. Maximum flame temperature NA°F 13. Combustion products: Wet gas flowrate 1050333 acfm at 780 °F Typical Oxygen Content 14.4 dry volume % or \_\_\_\_\_ wet volume % or \_\_\_\_\_ % excess air 14. Typical Use 11 hours/day 7 days/week 52 weeks/year

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

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>%

With regard to air pollutant flow, what source(s) or abatement device(s), and/or emission points are immediately

16. With regard to air pollutant flow, what source(s) or abatement device(s) are immediately UPSTREAM?

#### **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.								

Use the appropriate	Natural Gas	therm*	Btu/hr	N/A	N/A	N/A	N/A
units for each fuel	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)

			Particu	lates	NO	х	CO	C
	Fuel Name	Fuel Code**				**Basis		
			Factor	Code	Factor	Code	Factor	Code
1.								
2.								
3.								
4.								

Use the appropriate units for each fuel: Natural Gas = Ib/therm\*

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

(revised: 6/01)

**Data Form C FUEL COMBUSTION SOURCE** 

939	Ellis	Street	. San Francisco,	CA 94109	(415) 749-4990	fax (41	5) 749-5030

Website: www.baaqmd.gov

Person completing this form:

Keith McGregor

New ☐ Modified ☐ Retro ☐

Date: 06/03/2009

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.

L		on Form A (using the source			
				(If unknown,	leave blank)
1.	Company Name:	Mariposa Energy, LLC		Plant No:	Source No. 4
2.	Equipment Name 8	& Number, or Description:	GE LM6000 PC-Sprint C	Combustion Turbine	
3.	Make, Model: G	E LM6000 PC-Sprint Combu	ustion Turbine N	Maximum firing rate: 481	MM Btu/hr
4.	Date of modification	n or initial operation: 201	2 (if unknown,	leave blank)	
5.	Primary use (check	abatement de			
6.	SIC Number 4931	own leave blank			
7.	Equipment type (ch	neck one)			
	Internal combustion	Use Form ICE (Internal Cor	mbustion Engine) unless	it is a gas turbine	
		⊠ gas turbine □ other		hp	
	Incinerator	salvage operation liquid waste	pathological waste	-	rature°F nce timeSec
	Others	☐ boiler ☐ afterburner ☐ flare ☐ open burning ☐ other	☐ dryer ☐ oven ☐ furnace Mat ☐ kiln	erial dried, baked, or hea	ated:
9.	Overfire air? Flue gas recirculat Air preheat?	☐ yes ☐ no tion? ☐ yes ☐ no ☐ yes ☐ no	If yes, what percent _ If yes, what percent _ Temperature	% % °F	
11.	Low NO <sub>x</sub> burners?	? ⊠ yes □ no	Make, Model GE Wate	- er Injected Combustors_	
12.	Maximum flame te	emperature <u>NA</u> °F			_
13.		ucts: Wet gas flowrate <u>1050</u> ontent <u>14.4</u> dry volume % o		r % excess air	
14.	Typical Use 1	1 hours/day 7	days/week	52 weeks/year	
15.	Typical % of annua	al total: Dec-Feb 25%	Mar-May <u>25</u> %	Jun-Aug <u>25</u> %	Sep-Nov <u>25</u> %
16.	=	pollutant flow, what source(s			
	With regard to air DOWNSTREAM?  S S		) or abatement device(s),	·	are immediately

#### **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)
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2.								
3.								
4.								
5.								

Use the appropriate	Natural Gas	therm*	Btu/hr	N/A	N/A	N/A	N/A
units for each fuel	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)

			Particu	lates	NO	х	CO	C
	Fuel Name	Fuel Code**				**Basis		
			Factor	Code	Factor	Code	Factor	Code
1.								
2.								
3.								
4.								

Use the appropriate units for each fuel: Natural Gas = Ib/therm\*

Other Gas = Ib/MSCF\* Liquid = Ib/m gal\* Solid = Ib/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	<b>3</b>		**Basis Codes
Code	Fuel	Code	Fuel	Code	Method
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315 392 551 158 160 165 167 494	Distillate oil Fuel oil #2 Gasoline Jet fuel LPG Lignite Liquid waste Municipal solid waste	466 304 305 198 200 203	Solid waste Wood - hogged Wood - other Other - gaseous fuels Other - liquid fuels Other - solid fuels	8	Guess

(revised: 6/01)





ati	omoni	· Dovico:	Equipment/pr	ocoss whoso	primary purpose is to	roduco the gua	ntity of pollutant(s)	omittoo
		sphere.	Equipment/pi	ocess whose	primary purpose is to	reduce the qua	initity of politicanit(s)	emillec
В	usines	s Name:	Mariposa Ene	rgy, LLC			Plant No: (If unknown, le	ave hlank)
NI-	ame or	r Descripti	on SCR NO	v Control		Ahatement	Device No: A- 1	
1 1	arrie oi	Descripti	011 001(140)	K CONTROL		Abatement	Device No. A- 1	
M	lake, M	lodel, and	Rated Capacity	/ TBD				
Al	bateme	ent Device	Code (See tab	ole*) 66	Dat	e of Initial Opera	ition 2012	
١.٨	<i>!!</i> 41					(a) = = =   (a = =   b = + a = =		
		ard to air   <b>ately</b> upsti		to this abateme	ent device, what sources	(s) and/or abate	ment device(s) are	
	S-	1	S-	S-	S	S-		
	S- _	<u>'</u>						
	•		Α.	<b>A</b>	A-	Δ-	Α-	
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nis Ie	form	is being s ndatory.	n temperature a submitted as p If not, and the	at inlet: 848	°F Cation for an <i>Authorit</i> evice is <i>already in ope</i> Weight Percent Reduc	ty to Construceration, comple	t, completion of the tion of the table is  Basis Codes	
nis le n	s form is man	is being s ndatory. uired.	n temperature a	at inlet: 848	°F cation for an <i>Authorit</i> evice is <i>already in ope</i> Weight Percent Reduc	ty to Construceration, comple	<i>t</i> , completion of the tion of the table is	
nis le n	form is mar ot requ	is being s ndatory. uired. ulate	n temperature a submitted as p If not, and the	at inlet: 848	°F cation for an <i>Authorit</i> evice is <i>already in ope</i> Weight Percent Reduce (at typical operation	ty to Construceration, comple	t, completion of the tion of the table is  Basis Codes	
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e n	Fartice Organ Nitrog	is being s ndatory. uired. ulate iics en Oxides Dioxide in Monoxid	n temperature a submitted as p If not, and the	at inlet: 848	cation for an <i>Authorit</i> evice is <i>already in ope</i> Weight Percent Reduce (at typical operation NA  NA  90  NA	ty to Construceration, comple	t, completion of the tion of the table is  Basis Codes (See Table**)	
nis le no	Particu Organ Nitrog Sulfur Carbo	is being s ndatory. uired. ulate nics en Oxides Dioxide	n temperature a submitted as p If not, and the	at inlet: 848	cation for an <i>Authorit</i> evice is <i>already in ope</i> Weight Percent Reduce (at typical operation NA  NA  90  NA	ty to Construceration, comple	t, completion of the tion of the table is  Basis Codes (See Table**)	
nis le no	Partice Organ Nitrog Sulfur Carbo Other:	is being sondatory.  uired.  ulate  iics  en Oxides  Dioxide  in Monoxide  eck box if	r temperature a submitted as p If not, and the Pollutant (as NO <sub>2</sub> )	at inlet: 848 Part of an appli Abatement D	or cation for an <b>Authorit</b> evice is already in ope (at typical operation NA)  NA  90  NA	eration, comple	t, completion of the tion of the tion of the table is  Basis Codes (See Table**)	request
nis le no	Particu Organ Nitrog Sulfur Carbo Other: Other:	is being sondatory.  uired.  ulate  ics  en Oxides  Dioxide  in Monoxide  eck box if vice No. aligard to air	r temperature a submitted as p If not, and the Pollutant (as NO <sub>2</sub> ) de	Device burns furce No.) and a	oF Ication for an Authorit evice is already in ope  Weight Percent Reduce (at typical operation NA NA 90 NA	etion n)	t, completion of the tion of the tion of the table is  Basis Codes (See Table**)  3	tement

P:www\FormA (revised: 7/99)

#### \*ABATEMENT DEVICE CODES

Code	DEVICE
Code	ADSORBER (See Vapor Recovery)
4	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 10	Moving Belt
16	Other
47	DRY INERTIAL COLLECTOR
17	Cyclone, Dynamic
18	Cyclone, Multiple (12 inches dia. or more)
19	Cyclone, Multiple (less than 12 inches
20	dia.)
20 21	Cyclone, Simple Settling Chamber, Baffled/Louvered
22	Settling Chamber, Simple
23	Other
25	ELECTROSTATIC PRECIPITATOR
24	Single Stage
2 <del>4</del> 25	Single Stage Single Stage, Wet
26 26	Two Stage
27	Two Stage Two Stage, Wet
28	Other
20	INCINERATOR (See Afterburner)
	INTERNAL COMBUSTION ENGINE CONTROL
69	Catalyzed Diesel Particulate Filter
70	Non-Cat. Diesel Part. Filter w/ Active
70	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, Farier, Dry Mist Eliminator, Spray/Irrigated
33	Mist Eliminator, Opray/Imgated Mist Eliminator, Vertical Tube, Dry
34	Mist Eliminator, Vertical Tube, Bry Mist Eliminator, Other
35	Other
00	NO <sub>X</sub> Control
66	Selective Catalytic Reduction (SCR)
	Total Talany ilo Hoddollott (OOH)

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)
40	SULFUR DIOXIDE CONTROL
48 49	Absorption and Regeneration, for Sulfur Plant Claus Solution Reaction, for Sulfur Plant
50	Dual Absorption, for H2S04 Plant
51	Flue Gas Desulfurization, for Fossil Fuel
31	Combustion
52	Reduction and Solution Regeneration, for
"-	Sulfur Plant
53	Reduction and Stretford Process, for Sulfur
	Plant
54	Sodium Sulfite-Bisulfite Scrubber, for H2S04
	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 63	Condenser, Water-Cooled Condenser, Other
64	Other
04	MISCELLANEOUS
74	Soil Vapor Extraction Abatement System
65	Not classified above
05	INULUIASSIIIEU ADUVE

#### \*\*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





			for office use	e only	
patement Device: Equipment/proc the atmosphere.	cess whose prima	ry purpose is to reduce	e the quantity of	pollutant(s) em	itted
Business Name: Mariposa Energy	y, LLC		Plan	nt No:	
				(If unknown, leave b	lank)
Name or Description Oxidation Ca	atalyst	Al	batement Device	No: <u>A- 2</u>	
Make, Model, and Rated Capacity	TBD				
Abatement Device Code (See table	*) 72	Date of Init	tial Operation _	2012	
With regard to air pollutant flow into immediately upstream?	this abatement dev	ice, what sources(s) and	or abatement de	evice(s) are	
<b>S-</b> 1 <b>S-</b>	S	S-	S-		
S				<u> </u>	
his form is being submitted as par	t of an application	for an <b>Authority to C</b>	construct, comp		
Typical gas stream temperature at in this form is being submitted as parole is mandatory. If not, and the At not required.	nlet: <u>848</u> °F t of an application batement Device	for an <b>Authority to C</b> is already in operation	construct, comp , completion of	oletion of the foll the table is requ	
Typical gas stream temperature at in his form is being submitted as parolle is mandatory. If not, and the A	nlet: 848 °F t of an application batement Device  Weigl	for an <i>Authority to C</i>	construct, comp , completion of Basis	bletion of the foll	
Typical gas stream temperature at innis form is being submitted as par le is mandatory. If not, and the A not required.  Pollutant	nlet: 848 °F t of an application batement Device  Weigl	for an <b>Authority to C</b> is already in operation	construct, comp , completion of Basis	oletion of the foll the table is requ Codes	
Typical gas stream temperature at innis form is being submitted as par le is mandatory. If not, and the A not required.  Pollutant Particulate	nlet: 848 °F t of an application batement Device  Weigl	for an <i>Authority to C</i> is <i>already in operation</i> of the propertion of the transfer of the tra	construct, comp , completion of Basis (See	oletion of the foll the table is requ Codes	
Typical gas stream temperature at in his form is being submitted as paralle is mandatory. If not, and the A not required.  Pollutant Particulate Organics	nlet: 848 °F t of an application batement Device  Weigl	for an <b>Authority to C</b> is already in operation of the second sec	construct, comp , completion of Basis (See	oletion of the foll the table is requ Codes Table**)	
Typical gas stream temperature at in his form is being submitted as par le is mandatory. If not, and the A not required.  Pollutant Particulate Organics	nlet: 848 °F t of an application batement Device  Weigl	for an <b>Authority to C</b> is already in operation of the second sec	construct, comp , completion of Basis (See	oletion of the foll the table is requ Codes Table**)	
Typical gas stream temperature at innis form is being submitted as paralle is mandatory. If not, and the Amot required.  Pollutant  Particulate  Organics  Nitrogen Oxides (as NO <sub>2</sub> )  Sulfur Dioxide	nlet: 848 °F t of an application batement Device  Weigl	for an <b>Authority to C</b> is already in operation of the second represent Reduction typical operation)  NA  82  NA	construct, comp , completion of Basis (See	oletion of the foll the table is requ Codes Table**)	
Typical gas stream temperature at in his form is being submitted as paralle is mandatory. If not, and the Amot required.  Pollutant  Particulate Organics Nitrogen Oxides (as NO <sub>2</sub> ) Sulfur Dioxide Carbon Monoxide	nlet: 848 °F t of an application batement Device  Weigl	for an <b>Authority to C</b> is already in operation  ont Percent Reduction typical operation)  NA  82  NA  NA  NA	construct, comp , completion of Basis (See	Detion of the foll the table is requ Codes Table**)	
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Typical gas stream temperature at in his form is being submitted as parable is mandatory. If not, and the At not required.  Pollutant Particulate Organics Nitrogen Oxides (as NO <sub>2</sub> ) Sulfur Dioxide Carbon Monoxide Other: Other:	nlet: 848 °F  t of an application batement Device  Weigl (at	for an <i>Authority to C</i> is already in operation of the Percent Reduction typical operation)  NA  82  NA  NA  91  mplete lines 1, 2 and 15-o this form.	Basis (See	Codes Table**)  3	ent

Date:

06/03/2009

Person completing this form: Keith McGregor





	nt Device nosphere.	e: Equipment/pro	ocess whose	e primary purpose is to	reduce the qua	ntity of pollutant(s) e	emitte
Busine	ess Name:	Mariposa Ener	gy, LLC			Plant No:	
						(If unknown, leav	e blank
Name	or Descript	tion SCR NOx	Control		Abatement	Device No: A- 3	
Make,	Model, and	d Rated Capacity	TBD				
Abater	ment Devic	e Code (See tabl	le*) _ 66	Da	te of Initial Opera	tion 2012	
	egard to air diately ups		o this abatem	ent device, what sources	s(s) and/or abater	ment device(s) are	
S-	2	S	s	S	S		
S-				A-			
Туріса	l gas strea	m temperature at					
	•	·	t inlet: 848	°F	ity to Construc	<i>t</i> , completion of the f	ollowi
is forn e is m	n is being andatory.	submitted as pa	t inlet: 848 art of an app				
is forn e is m	n is being	submitted as pa	t inlet: 848 art of an app	°F lication for an <b>Authori</b> Device is <i>already in op</i>	eration, complet	tion of the table is re	
is forn e is m	n is being andatory.	submitted as pa	t inlet: 848 art of an app	°F lication for an <i>Authori</i>	eration, complet		
is forn e is m not re	n is being andatory.	submitted as pa If not, and the	t inlet: 848 art of an app	°F lication for an <i>Authori</i> Device is <i>already in op</i> Weight Percent Redu	eration, complet	tion of the table is re  Basis Codes	
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06/03/2009

Date:



nent Device: Equipment/process tmosphere.  iness Name: Mariposa Energy, Li ne or Description Oxidation Cataly te, Model, and Rated Capacity T tement Device Code (See table*) in regard to air pollutant flow into this nediately upstream?	LC yst BD 72	Aba  Date of Initial	Plant No: (If un	utant(s) emitted  hknown, leave blank)  A- 4
iness Name: Mariposa Energy, Lone or Description Oxidation Cataloge, Model, and Rated Capacity Tement Device Code (See table*)  The regard to air pollutant flow into this	LC yst BD 72	Aba  Date of Initial	Plant No: (If un tement Device No:	nknown, leave blank) A- 4
ne or Description Oxidation Catalyce, Model, and Rated Capacity Tement Device Code (See table*)  n regard to air pollutant flow into this	yst BD 72	Date of Initial	(If un	A- 4
te, Model, and Rated Capacity	BD 72	Date of Initial		
tement Device Code (See table*)  n regard to air pollutant flow into this	72		Operation 2012	
n regard to air pollutant flow into this			Operation 2012	
	abatement device,			<u>2</u>
		, what sources(s) and/or	r abatement device(	s) are
	S	_ s s	S	
	Α-	A- A	\- A	<b></b>
	ement Device is a	already in operation, c	ompletion of the ta	able is requested
Pollutant			<b>Basis Cod</b> (See Table	
articulate		NA		
rganics		82	3	
itrogen Oxides (as NO <sub>2</sub> )		NA		
ulfur Dioxide		NA		
arbon Monoxide		91	3	
ther:				
ther:				
Check box if this Abatement Device No. above for the Source N	e burns fuel; compl lo.) and attach to th	lete lines 1, 2 and 15-36 is form.	on Form C (using t	he Abatement
		e, what sources(s), aba	tement device(s) an	nd/or emission
A-	A	A	<b>P-</b> 2	P
i	A-  ical gas stream temperature at inlet:  orm is being submitted as part of mandatory. If not, and the Abat required.  Pollutant  articulate rganics itrogen Oxides (as NO <sub>2</sub> ) ulfur Dioxide arbon Monoxide ther: ther:  Check box if this Abatement Device Device No. above for the Source No h regard to air pollutant flow from the nt(s) are immediately downstream?	A	A- A	A- A

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Person completing this form: Keith McGregor





							r office use o	-	
		nt Device: nosphere.	Equipment/pro	cess whose pri	mary purpose is to	reduce the qu	uantity of p	ollutan	t(s) emitt
В	usine	ess Name:	Mariposa Energ	ıy, LLC			Plant l		
							(	If unknow	n, leave blar
N	ame	or Descripti	on SCR NOx (	Control		Abateme	nt Device N	lo: <u>A-</u>	5
M	lake,	Model, and	Rated Capacity	TBD					
Αl	baten	ment Device	Code (See table	e*) <u>66</u>	Dat	te of Initial Ope	ration 2	012	
		egard to air diately upst		this abatement	device, what sources	s(s) and/or abat	ement devi	ice(s) ar	·e
	S-	3	S	S	S	S		<u>_</u> .	
	S-								
	•							_	
is e	ypical form	n is being s	n temperature at i	inlet: 848 rt of an applica	^- _ °F tion for an <i>Authori</i> t ice is <i>already in ope</i>	ty to Constru			
is le	ypical form	n is being s andatory.	n temperature at i submitted as par If not, and the A	inlet: 848 rt of an applica Abatement Dev	oF tion for an <b>Authori</b> tice is already in ope	ty to Construeration, comple	letion of th  Basis C	etion of e table	
is le	ypical form is ma ot red	n is being s andatory. quired.	n temperature at i	inlet: 848 rt of an applica Abatement Dev	°F tion for an <i>Authori</i> tice is <i>already in ope</i> reight Percent Reduction (at typical operation)	ty to Construeration, comple	letion of th	etion of e table	
nis le n	ypical form is ma ot red Parti	n is being s andatory. quired.	n temperature at i submitted as par If not, and the A	inlet: 848 rt of an applica Abatement Dev	oF tion for an <b>Authori</b> tice is already in ope	ty to Construeration, comple	letion of th  Basis C	etion of e table	
nis le n	ypica form is ma ot red Parti Orga	n is being s andatory. quired.	n temperature at issubmitted as particular for the A	inlet: 848 rt of an applica Abatement Dev	eight Percent Reduction (at typical operation)	ty to Construeration, comple	letion of th  Basis C	etion of e table codes able**)	
e ne	ypical form is ma ot red Parti Orga	n is being s andatory. quired. iculate	n temperature at issubmitted as particular for the A  Pollutant  (as NO <sub>2</sub> )	inlet: 848 rt of an applica Abatement Dev	oF tion for an <b>Authori</b> tice is already in operation and the second seco	ty to Construeration, comple	Basis 0	etion of e table codes able**)	
nis le no	ypicals form is made of red Parti Organ Nitro	n is being s andatory. quired. iculate anics	n temperature at issubmitted as parallel finot, and the A  Pollutant  (as NO <sub>2</sub> )	inlet: 848 rt of an applica Abatement Dev	eight Percent Reduction for an Authoristice is already in operation of the NANA	ty to Construeration, comple	Basis 0	etion of e table codes able**)	
nis le no	ypicals form is made of red Parti Organ Nitro	n is being s andatory. quired. iculate anics ogen Oxides ur Dioxide	n temperature at issubmitted as parallel finot, and the A  Pollutant  (as NO <sub>2</sub> )	inlet: 848 rt of an applica Abatement Dev	eight Percent Reduction (at typical operation NA NA NA NA NA	ty to Construeration, comple	Basis 0	etion of e table codes able**)	
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his ble t no	Parti Orga Nitro Carb Othe	n is being standatory. quired.  iculate anics ogen Oxides on Monoxide or: er: Check box if bevice No. a	r temperature at insubmitted as parallel front, and the A  Pollutant  (as NO <sub>2</sub> )  de  this Abatement D bove for the Sour	inlet: 848  In the second seco	tion for an <i>Authoris</i> ice is <i>already in ope</i> reight Percent Reduce (at typical operation NA	ction n)	Basis C (See Ta	etion of e table codes able**)	batement
nis le no	Parti Orga Nitro Sulfu Carb Othe Othe	n is being standatory. quired.  iculate anics ogen Oxides ur Dioxide con Monoxide er: er: check box if device No. a	r temperature at insubmitted as parallel front, and the A  Pollutant  (as NO <sub>2</sub> )  de  this Abatement D bove for the Sour	inlet: 848  rt of an applica Abatement Dev  W  Device burns fuel rce No.) and atta m this abatemer	tion for an <i>Authoris</i> ice is <i>already in ope</i> reight Percent Reduce (at typical operation NA  NA  90  NA  NA  NA  State of the complete lines 1, 2 and the complete line	ction n)	Basis C (See Ta	etion of e table codes able**)	batement

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	osphere.		·	mary purpose is to	·	, , ,	,
Busines	ss Name:	Mariposa Energ	y, LLC			Plant No:	
						(If unknown,	
Name o	or Description	on Oxidation Ca	atalyst		Abatemen	t Device No: A-	6
∕lake, N	Model, and	Rated Capacity	TBD				
Abatem	nent Device	Code (See table	*) 72	Dat	e of Initial Oper	ation 2012	
	gard to air p liately upstr		this abatement	device, what sources	(s) and/or abate	ement device(s) are	
S-	3	S	S	S	S		
S-			Α-	Α-	A-	A	
Typical s form e is ma	n is being s		nlet: 848	°F tion for an <b>Authorit</b> ice is <i>already in ope</i>	ty to Construc		
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Fypical s forme is manot reconnected Partic	n is being s andatory. quired. culate	n temperature at insubmitted as par If not, and the A	nlet: 848 rt of an applica batement Dev	°F tion for an <b>Authorit</b> ice is already in ope eight Percent Reduce (at typical operation	eration, comple	Basis Codes (See Table**)	
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Fypical s form e is ma not rec  Partic  Orga  Nitro  Sulfu	culate anics gen Oxides on Monoxic	n temperature at insubmitted as par If not, and the A  Pollutant  (as NO <sub>2</sub> )	nlet: 848 rt of an applica batement Dev	oF tion for an <b>Authorit</b> ice is already in ope eight Percent Reduce (at typical operation) NA 82 NA NA NA	eration, comple	Basis Codes (See Table**)	
Fypical s form e is ma not rec  Partic  Orga  Nitrog  Sulfu  Carbe	culate gen Oxides ar Dioxide for Monoxider:	n temperature at insubmitted as par If not, and the A  Pollutant  (as NO <sub>2</sub> )	nlet: 848 rt of an applica batement Dev	oF tion for an <b>Authorit</b> ice is already in ope eight Percent Reduce (at typical operation) NA 82 NA NA NA	eration, comple	Basis Codes (See Table**)	

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	ent Device: nosphere.	Equipment/proces	s whose pri	mary purpose is to	reduce the q	uantity of pollu	tant(s) emitte
Busine	ess Name:	Mariposa Energy, L	.LC			Plant No:	
	_					(If unk	known, leave blan
Name	or Description	on SCR NOx Con	trol		Abateme	ent Device No:	A- 7
Make,	Model, and	Rated Capacity1	ГВD				
Abater	ment Device	Code (See table*)	66	Da	te of Initial Ope	eration 2012	
	egard to air p <b>diately</b> upstr		s abatement	device, what sources	s(s) and/or aba	atement device(s	s) are
S-	4	S	_ S	S	S		
S-							
is forn	m is being s		f an applica	A- _ °F tion for an <i>Authori</i> ice is <i>already in op</i>			n of the follov
is forn	m is being s nandatory. I	n temperature at inlet submitted as part o If not, and the Aba	t: 848 f an applica tement Dev	°F tion for an <i>Authori</i> ice is <i>already in op</i>	ty to Construeration, comp	<i>uct</i> , completion oletion of the ta	n of the followable is reques
is forn e is m not re	m is being s nandatory. I	n temperature at inlet	t: 848 f an applica tement Dev	°F tion for an <i>Authori</i> ice is <i>already in op</i> eight Percent Redu (at typical operatio	ty to Construeration, comp	<i>uct</i> , completion pletion of the ta	n of the followable is reques
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s former is mot re  Part  Orga  Nitro	m is being s nandatory. lequired.	n temperature at inlet submitted as part of If not, and the Abar Pollutant	t: 848 f an applica tement Dev	°F tion for an <i>Authori</i> ice is <i>already in op</i> reight Percent Redu (at typical operation	ty to Construeration, comp	uct, completion pletion of the ta Basis Code (See Table*	n of the followable is reques
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Part Orga Nitro Sulfa Othe	m is being shandatory. Equired.  Iticulate anics ogen Oxides fur Dioxide bon Monoxide er: er: Check box if to Device No. at	reperature at inlets submitted as part of life not, and the Abar Pollutant  (as NO <sub>2</sub> )  Ite  this Abatement Device to your for the Source I	t: 848  f an applica tement Dev  W  ce burns fuel No.) and atta	tion for an <i>Authori</i> ice is <i>already in operation</i> reight Percent Redu (at typical operation NA NA 90 NA	ction on)	Basis Code (See Table*	n of the followable is reques  es  *  ne Abatement





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					for	office use only	
	nt Device: nosphere.	Equipment/proces	ss whose prim	nary purpose is to re	educe the qu	antity of pollu	tant(s) emitte
Busine	ess Name:	Mariposa Energy,	LLC			Plant No:	
						(If unk	known, leave blank
Name	or Description	on Oxidation Cata	alyst		Abatemer	nt Device No:	A- 8
Make,	Model, and	Rated Capacity	TBD				
Abaten	ment Device	Code (See table*)	72	Date	e of Initial Oper	ration 2012	
	egard to air <sub>l</sub> diately upsti		is abatement de	evice, what sources(	s) and/or abate	ement device(s	s) are
S-	4	S	S	S	S		
S-							
his form	n is being s		et: <u>848</u> of an applicatio	°F on for an <i>Authority</i> e is <i>already in ope</i>	y to Constru	<i>ct</i> , completior	n of the follow
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P:www\FormA (revised: 7/99)

				MENT DISTRICT (49-4990 Fax (415)	749-5030		
	m P is for well-dedows, room vent		sion points such a	as stacks or chimn	eys only; do not	use for	
Bus	siness Name: M	ariposa Ener	gy, LLC		Plant N	o:	
				Emission	Point No: P-1		
are	immediately up	stream? <b>S</b> - <b>A</b> - 1	S- A- 2	S- A- Height above	es(s) and/or about the state of	A	e(s)
			Effluent	Flow from Stack			
			Typical Ope	rating Condition	Maximum O	perating Cond	ition
	Actual Wet Gas I	Flowrate	1032441	cfm	1050333		cfm
	Percent Water V	apor	7.4	Vol %	8.0	Vo	ol %
	Temperature		848	°F	780		°F
I	s monitoring con	tinuous?	sure (monitor) the	e emission of any a	ir pollutants,		
			h McGregor	Data 0	06/03/2009		

BAY AREA AIR QUA		<b>AGEMENT DISTRICT</b> 415) 749-4990 Fax (415) 7	749-5030	
Form P is for well-defined emissi windows, room vents, etc.	on points su	uch as stacks or chimne	eys only; do not	use for
Business Name: Mariposa Energy	, LLC		Plant N	0:
		Emission	Point No: P-2	
With regard to air pollutant flow is are <b>immediately</b> upstream?  S- 2 S- A- 3  Exit cross-section area: 113.1	S- A- sq. ft.	S- 4 A-	. ,	A
	1	Operating Condition	Maximum O	perating Condition
Actual Wet Gas Flowrate	1032441	cfm	1050333	cfm
Percent Water Vapor	7.4	Vol %	8.0	Vol %
Temperature	848	°F	780	°F
If this stack is equipped to measure is monitoring continuous?  What pollutants are monitored	⊠ yes	□ no	ir pollutants,	
Person completing this form <u>Keith</u>	McGregor	Date <u>0</u>	6/03/2009	

BAY AREA AIR QUA	ALITY MANAGE	EMENT DISTRICT		
939 Ellis Street San Francisco, CA	94109 (415) 7	749-4990 Fax (415) 7	749-5030	
Form P is for well-defined emissi windows, room vents, etc.	on points such a	as stacks or chimne	eys only; do not (	use for
Business Name: Mariposa Energy	, LLC		Plant No	):
		Emission I	Point No: P-3	
With regard to air pollutant flow in are <b>immediately</b> upstream?  S- 3 S- A- 5  Exit cross-section area: 113.1	S- A- 6		S- A-	tement device(s)  A ft.
	Typical Ope	rating Condition	Maximum Op	erating Condition
Actual Wet Gas Flowrate	1032441	cfm	1050333	cfm
Percent Water Vapor	7.4	Vol %	8.0	Vol %
Temperature	848	°F	780	°F
If this stack is equipped to measure is monitoring continuous?  What pollutants are monitored	⊠ yes □	] no	ir pollutants,	

BAY AREA AIR QUA				
939 Ellis Street San Francisco, CA	A 94109 (415) 7	49-4990 Fax (415) 7	'49-5030	
Form P is for well-defined emiss windows, room vents, etc.	ion points such a	s stacks or chimne	eys only; do not	use for
Business Name: Mariposa Energy	/, LLC		Plant No	0:
		Emission I	Point No: P-4	
With regard to air pollutant flow i are <b>immediately</b> upstream?  S- 4 S- A- 7  Exit cross-section area: 113.1	S- A- 8	S- A-	. ,	A
Exit 61033-360tion area. 110.1	<u> </u>	ricigiii above	grade. <u>- 73.3</u>	11.
	Effluent	Flow from Stack		
	Typical Oper	rating Condition	Maximum Op	perating Condition
Actual Wet Gas Flowrate	1032441	cfm	1050333	cfm
Percent Water Vapor	7.4	Vol %	8.0	Vol %
Temperature	848	°F	780	°F
If this stack is equipped to meas Is monitoring continuous? What pollutants are monitored	⊠ yes □	no	ir pollutants,	
Person completing this form Keith N	McGregor	Date 0	6/03/2009	

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#### **Health Risk Screening Analysis**

**IMPORTANT:** For any permit application that requires a Health Risk Screening Analysis, <u>fill out one form for each source that emits a Toxic Air Contaminant(s)</u> [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). <u>You must provide a plot plan (drawn to scale, if possible) and a local map (aerial photos are recommended)</u>, 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.

ma	jor dimensions of all buildings surrounding the source in Section C.
Pla	int Name: Mariposa Energy, LLC Plant No.:
So	urce Description: GE LM600 PC-Sprint Combustion Turbine
So	urce No.: S-1 Emission Point No.: P-1
	(if known) (if known)
	SECTION A (Point Source)
1.	Does the source exhaust at clearly defined emission point; i.e., a stack or exhaust pipe? XES 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? 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   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? 1,032,441 cfm (cubic feet/min) OR meters <sup>3</sup> /second
8.	What is the typical temperature of the exhaust gas? 848 degrees Fahrenheit OR degrees Celsius
	(Skip Section B and Go on to Section C)
	SECTION B (Area/Volume Source)
or c	s section applies to fugitive emissions that are NOT captured by a collection system nor directly emitted through a stact other emission point. Volume sources have fugitive emissions generally released within a building or other defined space of, 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:

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		
В3	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		
В6	Power Distribution Center	18.5	25	80		
B7	Fuel Gas Compressor	25	52	98		
B8	Maintenance	23	52	98		
В9	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 #2: 25 ft diameter, 25 ft high
	Tank #3: 40 ft diameter, 40 ft high
(G	o on to Section D)
	SECTION D (Receptor Locations)
NO	TE: 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
2.	Distance from source (stack or building) to nearest facility property line = $\frac{45}{13.4}$ meters
3.	Distance from source (stack or building) to the property line of the nearest residence = $\frac{3,200}{1}$ 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 = $\frac{\sim 1,300}{\sim 1,300}$ 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

Tank #1: 45 ft diameter, 45 ft high

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#### **Health Risk Screening Analysis**

**IMPORTANT:** For any permit application that requires a Health Risk Screening Analysis, <u>fill out one form for each source that emits a Toxic Air Contaminant(s)</u> [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). <u>You must provide a plot plan (drawn to scale, if possible) and a local map (aerial photos are recommended)</u>, 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.

ma	ligor dimensions of all buildings surrounding the source in Section C.
Pla	ant Name: Mariposa Energy, LLC Plant No.:
So	urce Description: GE LM600 PC-Sprint Combustion Turbine
So	urce No.: S-2 Emission Point No.: P-2
	urce No.: S-2 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?   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? 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   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? 1,032,441 cfm (cubic feet/min) OR meters <sup>3</sup> /second
8.	What is the typical temperature of the exhaust gas? 848 degrees Fahrenheit OR degrees Celsius
	(Skip Section B and Go on to Section C)
	SECTION B (Area/Volume Source)
or o	s section applies to fugitive emissions that are NOT captured by a collection system nor directly emitted through a stac other emission point. Volume sources have fugitive emissions generally released within a building or other defined spac- 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.
	(On an to Continu O)
	// to on to broation [1]

#### **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:

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		
В3	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		
В6	Power Distribution Center	18.5	25	80		
B7	Fuel Gas Compressor	25	52	98		
B8	Maintenance	23	52	98		
В9	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
(G	o on to Section D)
	SECTION D (Receptor Locations)
NO	TE: 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 commercial and/or industrial use □ zoned for agricultural use
2.	Distance from source (stack or building) to nearest facility property line = $\frac{45}{13.4}$ meters
3.	Distance from source (stack or building) to the property line of the nearest residence = $\frac{\sim 3,200}{\sim}$ 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 = $\frac{\sim 1,150}{}$ 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)

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#### **Health Risk Screening Analysis**

**IMPORTANT:** For any permit application that requires a Health Risk Screening Analysis, <u>fill out one form for each source that emits a Toxic Air Contaminant(s)</u> [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). <u>You must provide a plot plan (drawn to scale, if possible) and a local map (aerial photos are recommended)</u>, 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.

ma	jor dimensions of all buildings surrounding the source in Section C.
Pla	nt Name: Mariposa Energy, LLC Plant No.:
Soi	urce Description: GE LM600 PC-Sprint Combustion Turbine
Soi	urce No.: S-3Emission Point No.: P-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?   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? 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   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? 1,032,441 cfm (cubic feet/min) OR meters <sup>3</sup> /second
8.	What is the typical temperature of the exhaust gas? 848 degrees Fahrenheit OR degrees Celsius
	(Skip Section B and Go on to Section C)
	SECTION B (Area/Volume Source)
or c	s section applies to fugitive emissions that are NOT captured by a collection system nor directly emitted through a stac other emission point. Volume sources have fugitive emissions generally released within a building or other defined spaces, 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:

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		
В3	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		
В6	Power Distribution Center	18.5	25	80		
В7	Fuel Gas Compressor	25	52	98		
B8	Maintenance	23	52	98		
В9	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)
NO	TE: 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 = $\frac{45}{200}$ feet OR $\frac{13.4}{200}$ meters
3.	Distance from source (stack or building) to the property line of the nearest residence = $\frac{3,200}{}$ feet OR meters
4.	Describe the nearest nonresidential property (check one):  Industrial/Commercial OR  Other  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 = $\frac{1,000}{1}$ 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

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#### **Health Risk Screening Analysis**

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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-4Emission Point No.: P-4
Source No.: S-4Emission Point No.: P-4(if known) (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? 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   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? 1,032,441 cfm (cubic feet/min) OR meters <sup>3</sup> /second
8. What is the typical temperature of the exhaust gas? <u>848</u> 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 st or other emission point. Volume sources have fugitive emissions generally released within a building or other defined sp (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.
(On an to Continu O)

#### **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:

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		
В3	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		
В6	Power Distribution Center	18.5	25	80		
B7	Fuel Gas Compressor	25	52	98		
B8	Maintenance	23	52	98		
В9	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
(G	o on to Section D)
	SECTION D (Receptor Locations)
NO	TE: 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 = $\frac{-45}{}$ feet OR $\frac{13.4}{}$ meters
3.	Distance from source (stack or building) to the property line of the nearest residence = $\frac{3,200}{100}$ 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 = $\frac{800}{100}$ 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

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.

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Pla	nt Name: Mariposa Energy, LLC Plant No.:
So	urce Description: Diesel Fire Pump Driver
So	urce No.: S-5Emission Point No.: P-5(if known)
	· · · · · · · · · · · · · · · · · · ·
1	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
۷.	Important: If stack is on a roof, provide building dimensions on line B1 in Section C.
2	
3.	What is the height of the stack outlet above ground level? <u>12</u> feet OR meters?
4.	What is the inside diameter of the stack outlet? <u>6</u> 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 meters <sup>3</sup> /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)
or c	s section applies to fugitive emissions that are NOT captured by a collection system nor directly emitted through a stace other emission point. Volume sources have fugitive emissions generally released within a building or other defined space, 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
	If NO (source not inside building), provide a description of the source, dimensions, & indicate location on plot plan.

#### **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:

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		
В3	Admin Building	13.5	28	78		
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B5	CTG4 (Air Inlet Filter Height)	33.2	13.5	56.5		
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В9	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					
(G	o on to Section D)					
SECTION D (Receptor Locations)						
NO	TE: 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):					
2.	Distance from source (stack or building) to nearest facility property line = $\frac{40}{20}$ feet OR $\frac{12}{20}$ meters					
3.	Distance from source (stack or building) to the property line of the nearest residence = $\frac{\sim 3,200}{\sim 3,200}$ 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 = <u>~450</u> 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)					