



**FORM 400-E-12
GAS TURBINE**

Mail Application To:
 SCAQMD
 P.O. Box 4944
 Diamond Bar, CA 91765

Tel: (909) 396-3385

www.aqmd.gov

This form must be accompanied by a completed Application for a Permit to Construct/Operate -Form 400A, Form CEQA, Plot Plan and Stack Form

Permit to be issued to (Business name of operator to appear on permit):
Address where the equipment will be operated (for equipment which will be moved to various location in AQMD's jurisdiction, please list the initial location site):
Fixed Location
Various Locations

SECTION A: EQUIPMENT INFORMATION

Turbine	Manufacturer:		
	Model No.:	Serial No.:	
	Size (based on Higher Heating Value - HHV):		
	Manufacturer Maximum Input Rating:	MMBTU/hr	kWh
Manufacturer Maximum Output Rating:	MMBTU/hr	kWh	
Function (Check all that apply)	Electrical Generation	Driving Pump/Compressor	Emergency Peaking Unit
	Steam Generation	Exhaust Gas Recovery	Other (specify):
Cycle Type	Simple Cycle	Regenerative Cycle	
	Combined Cycle	Other (specify):	
Combustion Type	Tubular	Can-Annular	Annular
Fuel (Turbine)	Natural Gas	LPG	Digester Gas*
	Landfill Gas*	Propane	Refinery Gas*
	Other* :		
	* (If Digester Gas, Landfill Gas, Refinery Gas, and/or Other are checked, attach fuel analysis indicating higher heating value and sulfur content).		
Heat Recovery Steam Generator (HRSG)	Steam Turbine Capacity	MW	
	Low Pressure Steam Output Capacity:	lb/hr @	°F
	High Pressure Steam Output Capacity:	lb/hr @	°F
	Superheated Steam Output Capacity:	lb/hr @	°F
Duct Burner	Manufacturer:		Model:
	Number of burners:	Rating of each burner (HHV):	
	Low NOx (please attach manufacturer's specifications)		
	Type:	Other:	
	Show all heat transfer surface locations with the HRSG and temperature profile		
Fuel (Duct Burner)	Natural Gas	LPG	Digester Gas*
	Refinery Gas*	Landfill Gas*	Propane
	Other* :		
	*(If Digester Gas, Landfill Gas, Refinery Gas, and/or Other are checked, attach fuel analysis indicating higher heating value and sulfur content).		

Air Pollution Control	Selective Catalytic Reduction (SCR)*		Selective Non-catalytic Reduction (SNCR)*		
	Oxidation Catalyst*		Other (specify)*		
	Steam/Water Injection: Injection Rate: lbs. water/lbs. fuel, or mole water/mole fuel * Separate application is required.				
	Capital Cost:	Installation Cost:	Annual Operating Cost:		
Oxidation Catalyst Data (If Applicable)	Manufacturer:		Model:		
	Catalyst Dimensions: Length: ft. in. Width: ft. in. Height: ft. in.				
	Catalyst Cell Density: cells/sq. in.	Pressure Drop Across Catalyst:			
	Manufacturer's Guarantee	CO Control Efficiency: %	Catalyst Life: yrs.		
		VOC Control Efficiency: %	Operating Temp. Range: °F		
	Space Velocity (gas flow rate/catalyst volume):	Area Velocity (gas flow/wetted catalyst surface area):			
VOC Concentration into Catalyst: PPMVD @ 15 % O ₂	CO Concentration into Catalyst: PPMVD @ 15 % O ₂				

SECTION B: OPERATION INFORMATION

	Pollutants	Maximum Emissions Before Control*		Maximum Emissions After Control	
		PPM @15% O ₂ , dry	lb/Hour	PPM @15% O ₂ , dry	lb/Hour
On-line Emissions Data	ROG				
	NOx				
	CO				
	PM10				
	SOx				
	NH3				
	* Based on temperature, fuel consumption, and MW output				
Reference (attach data):					
	Manufacturer Emission Data	EPA Emission Factors		AQMD Emission Factors	
		Source Test			
Stack or Vent Data	Stack Height: ft. in.	Stack Diameter: ft. in.			
	Exhaust Temperature: °F	Exhaust Pressure: inches water column			
	Exhaust Flow Rate: CFM	OxygenLevel: %			
Operating Schedule	Normal:	hours/day	days/week	weeks/yr	
	Maximum:	hours/day	days/week	weeks/yr	

Startup Data	No. of Startups per day:	No. of Startups per year:	Duration of each startup:	hours	
Shutdown Data	No. of Shutdowns per day:	No. of Shutdowns per year:	Duration of each shutdown:	hours	
Startup and Shutdown Emissions Data	Pollutants	Startup Emissions		Shutdown Emissions	
		PPM @15% O₂, dry	lb/Hour	PPM @15% O₂, dry	lb/Hour
	ROG				
	NOx				
	CO				
	PM10				
	SOx				
NH3					
Monitoring and Reporting	Continuous Emission Monitoring System (CEMS)				
	CEMS Make:		CEMS Model:		
	Will the CEMS be used to measure both on-line and startup/shutdown emissions?			Yes	No
	The following parameters will be continuously monitored:				
NOx	CO	O₂			
Fuel Flow Rate	Ammonia Injection Rate	Other (specify)			
Ammonia Stack Concentration:	Ammonia CEMS Model	Ammonia CEMS Make			

SECTION C: APPLICANT CERTIFICATION STATEMENT			
I hereby certify that all information contained herein and information submitted with this application is true and correct.			
SIGNATURE OF PREPARER:	TITLE OF PREPARER:	PREPARER'S TELEPHONE NUMBER:	
		PREPARER'S E-MAIL ADDRESS:	
CONTACT PERSON FOR INFORMATION ON THIS EQUIPMENT:		CONTACT PERSON'S	DATE SIGNED:
E-MAIL ADDRESS:		TELEPHONE NUMBER:	
		FAX NUMBER:	

CONFIDENTIAL INFORMATION

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 as confidential, please complete the following steps:

(a) Make a copy of any page containing confidential information blanked out. Label this page "public copy."
 (b) Label the original page "confidential." Circle all confidential items on the page.
 (c) Prepare a written justification for the confidentiality of each confidential item. Append this to the confidential copy.