



**Form 400-E-12
Gas Turbine**

This form must be accompanied by a completed Application for a Permit to Construct/Operate - Forms 400-A, Form 400-CEQA, and Form 400-PS.

Mail To:
SCAQMD
P.O. Box 4944
Diamond Bar, CA 91765-0944
Tel: (909) 396-3385
www.aqmd.gov

Section A - Operator Information

Facility Name (Business Name of Operator That Appears On Permit): _____ Valid AQMD Facility ID (Available On Permit Or Invoice Issued By AQMD): _____

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 B - Equipment Description

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

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Section B - Equipment Description (Cont.)

Air Pollution Control	Selective Catalytic Reduction (SCR)* Oxidation Catalyst* Steam/Water Injection: Injection Rate: _____ lbs. water/lbs. fuel, or _____ mole water/mole fuel * Separate application is required.	Selective Non-Catalytic Reduction (SNCR)* Other (specify)*: _____ Capital Cost: _____ Installation Cost: _____ Annual Operating Cost: _____
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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 inot Catalyst: _____ PPMVD@ 15%O ₂
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Section C - 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
ROG				
NOx				
CO				
PM ₁₀				
SOx				
NH ₃				

* Based on temperature, fuel consumption, and MW output.

Reference (attach data):

Manufacturer Emission Data	EPA Emission Factors	AQMD Emission Factors	Source Test
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Stack or Vent Data	Stack Height: _____ ft. _____ in. Stack Diameter: _____ ft. _____ in. Exhaust Temperature: _____ °F Exhaust Pressure: _____ inches water column Exhaust Flow Rate: _____ CFM Oxygen Level: _____ %
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