

Texas Commission on Environmental Quality
Table 31
Combustion Turbines

Equipment Information	
Manufacturer:	
Model No.:	Serial No.:
Emission Point Number (EPN) From Table 1(a):	
Turbine Application	
<input type="checkbox"/> Electric Generation <input type="checkbox"/> Base Load <input type="checkbox"/> Peaking <input type="checkbox"/> Load Following <input type="checkbox"/> Gas Compression <input type="checkbox"/> Other (specify): _____	
Cycle	
<input type="checkbox"/> Simple Cycle _____ Hours Per Year <input type="checkbox"/> Regenerative Cycle <input type="checkbox"/> Cogeneration <input type="checkbox"/> Combined Cycle	
Model represented is based on (<i>see 30 TAC § 116.116(a)</i>):	
<input type="checkbox"/> Preliminary Design <input type="checkbox"/> Contract Award <input type="checkbox"/> Other (specify): _____	
Nominal Power Output at Baseload, ISO: _____ <input type="checkbox"/> MW or <input type="checkbox"/> hp	
Manufacturer's rated gross heat rate at baseload at expected conditions (efficiency in BTU/kW-hr): _____	
Fuel Data	
Primary Fuels:	
<input type="checkbox"/> Natural Gas (Sulfur content _____ gr S/100 dscf; HHV _____ Btu/scf) <input type="checkbox"/> Process Offgas <input type="checkbox"/> Landfill/Digester Gas <input type="checkbox"/> Fuel Oil <input type="checkbox"/> Refinery Gas <input type="checkbox"/> Other (specify): _____	
Backup Fuels:	
<input type="checkbox"/> Not Provided <input type="checkbox"/> Process Offgas <input type="checkbox"/> Ethane <input type="checkbox"/> Fuel Oil <input type="checkbox"/> Refinery Gas <input type="checkbox"/> Other (specify): _____	
If using fuels other than natural gas, attach fuel analyses, including maximum sulfur content, heating value (specify LHV or HHV) and mole percent of gaseous constituents.	
Emissions Data	
Attach manufacturer's information showing emissions of NO _x , CO, VOC, SO _x , and PM for each proposed fuel at turbine loads and site ambient temperatures representative of the range of proposed operation. The information must be sufficient to determine maximum hourly and annual emission rates. Annual emissions may be based on a conservatively low approximation of site annual average temperature. Provide emissions in pounds per hour and except for PM, parts per million by volume at actual conditions and corrected to dry, 15% oxygen conditions. In Table 1(a), provide speciation of PM/PM _{1.0} /PM _{2.5} .	
Method of Emission Control:	
<input type="checkbox"/> Lean Premix Combustors <input type="checkbox"/> Oxidation Catalyst <input type="checkbox"/> Water Injection <input type="checkbox"/> Low-NO _x Combustors <input type="checkbox"/> SCR Catalyst <input type="checkbox"/> Steam Injection <input type="checkbox"/> Other (specify): _____	

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Additional Information

On separate sheets attach the following:

- A. Details regarding principle of operation of emission controls. If add-on equipment is used, provide make and model and manufacturer's information. Example details include: controller input variables and operational algorithms for water or ammonia injection systems, combustion mode versus turbine load for variable mode combustors, etc.
- B. Stack parameters (not required if represented on Page 2 of Table 1(a)).
- C. If fired duct burners are used (as often used with a Combined Cycle Heat Recovery Steam Generator), supplementary fuel firing information as specified on Table 6, Boilers and Heaters (TCEQ Form Number 10163).