

**TCEQ COMBUSTION SOURCES
HISTORICAL BEST AVAILABLE CONTROL TECHNOLOGY (BACT) REQUIREMENTS**

TURBINES

This information is maintained by the Combustion/Coatings Section and is subject to change. Last update 10/2006

Year	Source Type	Pollutant	Minimum Acceptable Control	Control Efficiency or Details
1996	Gas-Fired	NOx	9-15 ppmvd at 15% O2	Dry Low NOx burner
	Turbine	CO	9 - 25 ppmvd at 15% O2	
thru	Greater than 20 MW	NOx	25 - 42 ppmvd at 15% O2	
	Gas-Fired	CO	9 - 25 ppmvd at 15% O2	
1999	Turbine	NOx	9 - 25 ppmvd at 15% O2	
	Less than 20 MW	CO	9 - 25 ppmvd at 15% O2	

Year	Source Type	Pollutant	Minimum Acceptable Control	Control Efficiency or Details
2000	Gas-Fired	NOx	9 - 15 ppmvd at 15% O2	Dry Low NOx burner SCR Does not include Electric Generating Units
	Turbine	CO	9 - 25 ppmvd at 15% O2	
	Less than 2500 hours per year	VOC	2 ppmvd at 15% O2 with SCR	
		NH3	7 ppmvd at 15% O2 with SCR	
2006	Gas-Fired	NOx	9 ppmvd at 15% O2	Dry Low NOx burner SCR Does not include Electric Generating Units
	Turbine	CO	9 - 25 ppmvd at 15% O2	
	Simple Cycle	VOC	2 ppmvd at 15% O2 with SCR	
		NH3	7 ppmvd at 15% O2 with SCR	
	Gas-Fired	NOx	5 ppmvd at 15% O2	Dry Low NOx burner SCR Does not include Electric Generating Units
	Turbine	CO	9 - 25 ppmvd at 15% O2	
	Combined Cycle	VOC	2 ppmvd at 15% O2 with SCR	
		NH3	7 ppmvd at 15% O2 with SCR	
	Gas-Fired	NOx	5 ppmvd at 15% O2	Dry Low NOx burner SCR Does not include Electric Generating Units
	Turbine	CO	9 - 25 ppmvd at 15% O2	
	Combined Cycle with Duct Burner	VOC	4 ppmvd at 15% O2 with SCR	
		NH3	7 ppmvd at 15% O2 with SCR	
Electric Generating Units Greater than 10MW	NOx	0.14 lb/MW-hr (over 300 hr/yr) 0.38 lb/MW-hr (under 300 hr/yr)	May Be Authorized By Standard Permit	
Electric Generating Units Less than 10MW East Texas	NOx	1.77 lb/MW-hr	May Be Authorized By Standard Permit Units Firing Landfill Gas, Oil Field Gas, or Digester Gas With Less Than .5 grains H2S or 30 grains Sulfur	
		0.47 lb/MW-hr (over 300 hr/yr) 1.65 lb/MW-hr (under 300 hr/yr)	May Be Authorized By Standard Permit Units Installed before 1/1/2005	
		0.14 lb/MW-hr (over 300 hr/yr) 0.47 lb/MW-hr (under 300 hr/yr)	May Be Authorized By Standard Permit Units Installed On or After 1/1/2005	
Electric Generating Units Less than 10MW West Texas	NOx	3.11 lb/MW-hr (over 300 hr/yr) 21 lb/MW-hr (under 300 hr/yr)	May Be Authorized By Standard Permit	
Electric Generating Units	SO2	Gaseous Fuel: 10 grains Sulfur per 100 dscf Liquid Fuel: 0.05 wt % Sulfur		