

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

INTERNAL COMBUSTION ENGINES

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 thru	Internal Combustion Engines	NOx	2.0 g/bhp-hr with natural gas 11.0 g/bhp-hr with liquid fuel	catalytic converter for rich burn no liquid fuel except for back-up units (limited hours)
		CO	3.0 g/bhp-hr	
		VOC	1.0 g/bhp-hr	
2000	Liquid Fired ICE Compression Ignited		Usually Authorized By PBR	Alternative (Low Emission) Fuels Only

Year	Source Type	Pollutant	Minimum Acceptable Control	Control Efficiency or Details
2001 thru	Gas Fired Internal Com- bustion Engines (ICE)	NOx	2.0 g/bhp-hr with natural gas	catalytic converter for rich burn no liquid fuel except for back-up units (limited hours)
		CO	3.0 g/bhp-hr	
		VOC	1.0 g/bhp-hr	
2006	Spark Ignited		Usually Authorized By PBR	Does not include Electric Generating Units
	Liquid Fired ICE Compression Ignited		Usually Authorized By PBR	Alternative (Low Emission) Fuels Only
	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 1.5 grains H2S or 30 grains Sulfur
		NOx	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
		NOx	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	