

TCEQ COMBUSTION SOURCES CURRENT BEST AVAILABLE CONTROL TECHNOLOGY (BACT) GUIDELINES

INTERNAL COMBUSTION ENGINES

This information is maintained by the Combustion/Coatings Section and is subject to change. Last update 3/2010

Year	Source Type	Pollutant	Minimum Acceptable Control	Control Efficiency or Details
2010	Gas Fired Internal Combustion Engines (ICE) Spark Ignited	NOx (<500 hp)	1.0 g/bhp-hr	catalytic converter for rich burn no liquid fuel except for back-up (limited hours) Electric Generating Units May Be Authorized By Standard Permit
		NOx (>=500 hp)	0.5 g/bhp-hr	
		CO	3.0 g/bhp-hr	
		VOC	1.0 g/bhp-hr	
	Liquid Fired ICE Compression Ignited		Usually Authorized By PBR	Alternative (Low Emission) Fuels Only
	Electric Generating Unit Greater than 10MW	NOx (>300 hrs)	0.14 lb/MW-hr (over 300 hr/yr)	May Be Authorized By Standard Permit
		NOx (<=300 hrs)	0.38 lb/MW-hr (under 300 hr/yr)	
	Electric Generating Unit Less than 10MW East Texas	NOx	1.90 lb/MW-hr	May Be Authorized By Standard Permit
				Only Units Firing Landfill Gas, Oil Field Gas, or Digester Gas With Less Than 30 Grains Sulfur per 100 dscf
		NOx (>300 hrs) NOx (<=300 hrs)	0.47 lb/MW-hr 1.65 lb/MW-hr	May Be Authorized By Standard Permit Units Installed before 1/1/2005
Electric Generating Unit Less than 10MW West Texas	NOx (>300 hrs and >250 kw) NOx (<=300 hrs or <250 kw)	0.14 lb/MW-hr 0.47 lb/MW-hr	May Be Authorized By Standard Permit Units Installed On or After 1/1/2005	
	NOx (>300 hrs) NOx (<=300 hrs)	3.11 lb/MW-hr 21 lb/MW-hr	May Be Authorized By Standard Permit	
Electric Generating Unit	SO2	Gaseous Fuel: 10 grains Sulfur per 100 dscf Liquid Fuel: 0.05 wt % Sulfur		