

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

**BOILERS, HEATERS**

This information is maintained by the Combustion/Coatings Section and is subject to change. Last update 07/2007

Year	Source Type	Pollutant	Minimum Acceptable Control	Control Efficiency or Details
1996 thru	Boiler >40 MMBtu/hr	NOx	0.06 lb/MMBtu when firing natural gas 0.06 lb/MMBtu when firing plant fuel gas 0.16 lb/MMBtu when firing No. 2 fuel oil	fuel oil firing less than 720 hr/yr plant fuel gas may contain up to 75% natural gas plant fuel gas specifics: <50% H2; >920 Btu/dscf
		CO	100 ppmvd at 3% O2	
1999	Process Heater	NOx	0.06 - 0.10 lb/MMBtu when firing natural gas 0.06 - 0.10 lb/MMBtu when firing plant fuel gas 0.16 lb/MMBtu when firing No. 2 fuel oil	fuel oil firing less than 720 hr/yr
		CO	100 ppmvd at 3% O2	

Year	Source Type	Pollutant	Minimum Acceptable Control	Control Efficiency or Details
2000 thru	Boiler >40 MMBtu/hr	NOx	0.036 lb/MMBtu when firing 75% - 100% natural gas 0.036 lb/MMBtu when firing plant fuel gas	plant fuel gas may contain up to 75% natural gas plant fuel gas specifics: <50% H2; >920 Btu/dscf fuel oil firing less than 720 hr/yr
		CO	50 - 100 ppmvd at 3% O2	
		PM	Less than 5% opacity	
		NH3	10 ppmvd at 3% O2	
2002	Process Heater	NOx	0.06 lb/MMBtu when firing natural gas 0.06 lb/MMBtu when firing plant fuel gas	fuel oil firing less than 720 hr/yr
		CO	100 ppmvd at 3% O2	

Year	Source Type	Pollutant	Minimum Acceptable Control	Control Efficiency or Details
2003 thru	Boiler >40 MMBtu/hr	NOx	0.01 lb/MMBtu when firing 75% - 100% natural gas 0.015 lb/MMBtu when firing plant fuel gas	plant fuel gas may contain up to 75% natural gas plant fuel gas specifics: <50% H2; >920 MMBtu/dscf fuel oil firing less than 720 hr/yr
		CO	50 ppmvd at 3% O2	
		PM	Less than 5% opacity	
		NH3	10 ppmvd at 3% O2	
2005	Process Heater	NOx	0.036 lb/MMBtu when firing 75% - 100% natural gas 0.036 lb/MMBtu when firing plant fuel gas	fuel oil firing less than 720 hr/yr
		CO	100 ppmvd at 3% O2	