

NRCA Stack Emission Targets for Existing Sources, 2006

SOURCE CATEGORY	SEGMENT	TARGET FOR EXISTING SOURCES	
		Pollutant	Value
ALL SOURCES (except where specifically noted)		Opacity	20% opacity and up to 40% opacity for six (6) consecutive minutes in any hour or 6 hours in 10 days except during start-up, shutdown, soot blowing or malfunction for each stack
MINERAL INDUSTRIES	Portland Cement	PM	800 g/t clinker for kilns
		PM	300 g/t clinker for clinker cooler
		PM	50 g/t clinker for finish grinding
		PM	100 g/t aggregate for all other sources
		SO ₂	3.0 % sulphur in heavy (Nos. 5 or 6) fuel oils
	Lime manufacture	PM	1000 g/t for all plant sources
		SO ₂	3.0 % sulphur in heavy (Nos. 5 or 6) fuel oils
	Alumina manufacture	PM	100 mg/dscm (20°C, 101.3 kPa, dry gas) OR 20% opacity with 40% opacity for six (6) consecutive minutes in any hour or 6 hours in 10 days except during start-up, shutdown or malfunction for each stack
		SO ₂	Up to 3.0 % sulphur in heavy fuel oil
	Glass manufacture	Opacity	20% opacity with 40% opacity for six (6) consecutive minutes in any hour for each stack
FUEL COMBUSTION	Liquid fuels	SO ₂	3% sulphur in heavy fuel oils (Nos. 5 & 6) 2.0 % sulphur in Nos. 3 and 4 oils 0.5% sulphur in light fuel oils (Nos. 1 & 2) and diesel oils

PETROLEUM REFINING	Coal Fired >70 MW	PM	60 ng/J input except during start-up, shutdown, soot blowing or malfunction for each stack
	All Other Coal Fired	PM	85 ng/J input except during start-up, shutdown, soot blowing or malfunction for each stack
		NO _x	300 ng/J input
	Oil Fired	Opacity	20% opacity with 40% opacity for six (6) consecutive minutes in any hour for each stack except during start-up, shutdown, soot blowing or malfunction for each stack
	Gas turbines	NO _x	200 ng/J input
	Oil fired ≤ 20MW	PM	85ng/J heat input
	Oil fired > 20MW	PM	42ng/J heat input
	Gas Turbines > 50 MW	NO _x	200ng/J input
	Gas Turbines 20- 50 MW	NO _x	140 ng/J input
	Gas Turbines peaking	NO _x	300 ng/J input
		NO _x	530ng/J output
	< 20 MW	NO _x	300 ng/J input
	Gas turbines (all)	SO ₂	0.5% for medium (Nos. 1 and 2) oils
	Bagasse Boilers	PM	Develop code of practice based on combustion efficiency optimisation
	Sulphur Plant	SO ₂	98% Sulphur Removal
		Steam Plant	PM
		SO ₂	1650 mg/m ³ Exhaust

	All	VOC	Leak detection and repair program
WASTE TREATMENT	Municipal/Biomedical Incinerators (<1 tonne/h) (1)	PM	200 mg/m^3 (a)
		CO	150 mg/m^3 (a)
		SO ₂	300 mg/m^3 (a)
		VOC	20 mg/m^3 as C (a)
INORGANIC CHEMICALS	Sulphuric Acid	SO ₂	15 kg/tonne 100% acid produced