

US EPA ARCHIVE DOCUMENT

Summary of State / Local NOx Regulations for Stationary Sources

This is a summary of state/local regulations on stationary NOx sources ordered by EPA regions. In preparing this spreadsheet, the EPA NOx Regional contacts were of great assistance in reviewing the drafts and circulating to their state/local agencies for review. The draft spreadsheet was prepared in late 2003 and finalized in May 2004. If there are errors or new NOx regulations are developed, please send an email to neuffer.bill@epa.gov.

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
CT	05/31/95	Major Stationary sources	premises with PTE at least 50 TPY in serious NA area	40 % reduction from 1990	Statewide - serious/severe NA areas	Annual	>100 TPY-CEM; others - stack test/5 yrs	Sec. 22a-174-22
	05/31/95	Same as above	or 25 TPY in severe NA area	Specified source categories also meet limits below	Same as above	Annual	Same as above	same as above
	05/31/95	Same as above	Gas Turbines at least 100 mmBtu/hr	Gas - 55 ppmvd; other oil - 75 ppmvd	Same as above	Annual	same as above	same as above
	05/31/95	Same as above	Gas turbines less than 100 mmBtu/hr	Gas;oil - 0.9	Same as above	Annual	same as above	same as above
	05/31/95	Same as above	Cyclone furnace	all fuels - 0.43	Same as above	Annual	same as above	same as above
	05/31/95	Same as above	Naval boiler	Gas-0.2; other fuels - 0.3	Same as above	Annual	same as above	same as above
	05/31/95	Same as above	FBC	Coal - 0.29	Same as above	Annual	same as above	same as above
	05/31/95	Same as above	Other boilers	Gas, other oil -0.2; Resid oil - 0.25;Coal- 0.38	Same as above	Annual	same as above	same as above
	05/31/95	Same as above	IC engines at least 3 mm Btu/hr; at least 1,000hrs/consecutive 12 mo since 1990	Gas -2.5 g/bhp-hr; Oil - 8.0	Same as above	Annual	same as above	same as above

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	05/31/95	Same as above	Other fuel burning equipment firing other fuels	0.3	Same as above	Annual	same as above	same as above
	05/31/95	Same as above	Waste combustor - burning RDF	SNCR or other controls - 30% from 1990;0.38	Same as above	Annual	same as above	same as above
	05/31/95	Same as above	Other waste combustor	0.33	Same as above	Annual	same as above	same as above
	05/31/95	Same as above	Glass melting furnace	5.5 lb/ton of glass	Same as above	Annual	same as above	same as above
	05/31/95	Same as above	Other stationary sources	700 ppmvd	Same as above	Annual	same as above	same as above
	05/01/03	Same as above	Municipal waste combustor-mass burn refractory	177 ppmvd(7% O2)	Statewide	Annual	CEM	22a-174-38
	05/01/03	Same as above	Municipal waste combustor-mass burn waterwall on or before 12/31/85	200 ppmvd@7% oxygen	Statewide	Annual	CEM	22a-174-38
	05/01/03	Same as above	Municipal waste combustor-mass burn waterwall after 12/31/85 before 9/20/94	177 ppmvd(7% O2)	Statewide	Annual	CEM	22a-174-38
	05/01/03	Same as above	Municipal waste combustor-mass burn waterwall after 9/20/94	177-1st yr -150 after ppmvd(7% O2)	Statewide	Annual	CEM	22a-174-38
	05/01/03	Same as above	Processed Municipal waste combustor	146 ppmvd(7% O2)	Statewide	Annual	CEM	22a-174-38
	05/31/95	NOx Budget source	Fossil fuel boiler or indirect heat exchanger at least 15MW or 250 MMBtu/hr	0.15 or allowances or DERC	Statewide - serious/severe NA areas	10/1-4/30	>100 TPY-CEM; others stack test-every 5 yrs	22a-174-22

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	05/01/99	NOx Budget Program	>15 MW; >250mmBtu/hr		Statewide	5/1-9/30	CEM	Sec.22a-174-22a
	05/01/03	NOx Budget Program	Same as above		Statewide	5/1-9/30	CEM	Sec 22a-174-22b
				www.dep.state.ct.us/air2/regs/mainregs.htm				
ME	05/31/1995	RACT -PTE at least 100 TPY	Large boilers at least 1,500million Btu/hr	0.3	Statewide	24-hr avg	CEM	Chapter 138
	05/31/1995	RACT -PTE at least 100 TPY	Mid-size boilers 50-1,500 million Btu/hr	Oil, biomass-0.30 or LNB	Moderate NA areas	1 hr avg; 24 hr if using CEM	CEM->200 mmBtu/hr	Chapter 138
	05/31/1995	RACT -PTE at least 100 TPY	Same as above	Biomass&coal - 0.38;biomass& other fuels-0.30	Moderate NA areas	Same as above	CEM->200 mmBtu/hr	Chapter 138
	05/31/1995	RACT -PTE at least 100 TPY	Kraft recovery boilers	120 ppm@ 8% oxygen	Statewide	24-hr avg	CEM	Chapter 138
	05/31/1995	RACT -PTE at least 100 TPY	MgO recovery boilers	250 ppm@ 4% oxygen	Statewide	24-hr avg	CEM	Chapter 138
	05/31/1995	RACT -PTE at least 100 TPY	Lime kiln	120 ppmvw @10% oxygen	Statewide	1 hr avg	Stack test	Chapter 138
	05/31/1995	RACT -PTE at least 100 TPY	RDF MSW incinerator	180 ppmv @7% oxygen	Statewide	24-hr avg	CEM	Chapter 138
	05/31/1995	RACT -PTE at least 100 TPY	Mass burn MSW incinerator	200 ppmv@7% oxygen	Statewide	24-hr avg	CEM	Chapter 138
	05/31/1995	RACT -PTE at least 100 TPY	Miscellaneous Stationary sources	Conduct alternative RACT determination	Statewide			Chapter 138
	05/31/1995	RACT -PTE at least 100 TPY	Small boilers - 20-50 mmBtu/hr	Annual tune up	Statewide			Chapter 138
	05/31/1995	RACT -PTE at least 100 TPY	Auxiliary/standby boilers	100 TPY; <20 tons/mo;annual tuneup	Statewide	12-mo - rolling avg		Chapter 138
	06/15/03-12/30/04	NOx Control Program	EGU <750mmBtu/hr;at least 750mmBtu/hr	0.27; 0.19	Statewide	90-day rolling avg	CEM	Chapter 145

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	06/15/03-12/30/04	NOx Control Program	Indirect heat exchangers; boilers; resource recovery>250mmBtu/hr	0.2	Statewide	90-day rolling avg	CEM	Chapter 145
	01/01/05	NOx Control Program	EGU <750 mmBtu/hr; at least 750mmBtu/hr	0.22;0.15	Statewide	90-day rolling avg	CEM	Chapter 145
	01/01/05	NOx Control Program	Indirect heat exchangers; boilers; resource recovery>250mmBtu/hr	0.2	Statewide	90-day rolling avg	CEM	Chapter 145
			www.maine.gov/sos/crc/rcn/apa/06/096/096c138.doc					
			WEB SITE					
Mass	05/31/95	RACT	Facilities PTE before controls at least 50 TPY		Statewide			7.19
	05/31/95	RACT	Boilers at least 100 mm Btu/hr - Coal	Dry bottom - tang - 0.38;face - 0.45;stoker-0.33	Statewide	Hourly or daily if CEM	CEM required>250mmBtu/hr	7.19
	05/31/95	RACT	Boilers at least 250 mm Btu/hr - oil/gas	Tang/oil - 0.25;tang/gas-0.20;face-0.28	Statewide	Daily	CEM required	7.19
	05/31/95	RACT	Boilers 100-250 mmBtu/hr - oil/gas	heat release rate <70,000btu/hr-ft3-0.30	Statewide	Hourly or daily if CEM	Annual stack test or CEM	7.19
	05/31/95	RACT		heat release rate >70,000btu/hr-ft3-0.40	Statewide	Hourly or daily if CEM	Same as above	7.19
	05/31/95	RACT	Boilers - gas only	0.2	Statewide	Hourly or daily if CEM	Same as above	7.19

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	05/31/95	RACT	Repowering by 12/31/03	Dry bottom - tang,face - solid fuel-0.2	Statewide	Hourly or daily if CEM	Same as above	7.19
	05/31/95	RACT		Oil/gas - 0.1	Statewide	Hourly or daily if CEM	Same as above	7.19
	05/31/95	RACT	Medium size boiler-50-100mmBtu/hr	Tang,face,stoker - solid fuel-0.43	Statewide	Hourly or daily if CEM	Same as above	7.19
	05/31/95	RACT		Tang,face -gas-0.1;Dist oil,oil/gas-0.12;resid-0.3	Statewide	Hourly or daily if CEM	Same as above	7.19
	05/31/95	RACT	Small boilers - 20-50 mmBtu/hr or <20mmbtu/hr with PTE >50 TPY	Tune boiler annually;operate boiler at most typical firing rate	Statewide			7.19
	05/31/95	RACT	Gas Turbines at least 25 mm Btu/hr; combined cycle	42 ppmvd-gas;65 - oil	Statewide	Hourly or daily if CEM	>100 mmBtu/hr-CEM;annual stack test others	7.19
	05/31/95	RACT	GT at least 25 mmBtu/hr; simple cycle	65 ppmvd-gas;100-oil	Statewide	Hourly or daily if CEM	Annual stack test or CEM	7.19
	05/31/95	RACT	IC engines at least 3 mm Btu/hr; at least 1,000hrs/consecutive 12 mo since 1990	Rich -1.5 g/bhp-hr;lean-3.0;lean-oil/dual - 9.0	Statewide	Hourly or daily if CEM	>30 mmBtu/hr - CEM	7.19-emergency engines<30 hr/yr exempt
	05/31/95	RACT	Less than 1,000 hrs/yr	Above emission standard or ignition timing retard-4	Statewide			7.19
	05/31/95	RACT	MWC's - PTE at least 25 TPY at facility with PTE before controls at least 50 TPY	0.6	Statewide	Hourly or daily if CEM	PTE>25TPY -annual stack test	7.19

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	05/31/95	RACT	Glass melting furnace - container glass producing at least 14 TPH	5.3 lbs/T	Statewide	Hourly or daily if CEM	Annual stack test or CEM	7.19
	05/31/95	NOx Allowance Program			Statewide		CEM	7.27
	05/31/95	Trading Program			Statewide		CEM	7.28
	10/01/04	Power Plants	>500 TPY in 1997,98 or 99;at least 100 MW	1.5 lbs/MWH	Statewide	Running 12 month avg	CEM	7.29
	10/01/04	Power Plants		3.0 lbs/MWH	Statewide	Monthly avg	CEM	7.29
			WEB SITE	www.state.ma.dep/bw/p/dapc/files/regsg/airnav.htm				
NH		Nitrogen Oxides			All statewide			Env-A 1211
	05/31/95	Utility Boilers	5-50 MMBtu/hr	Annual - efficiency test; adjust combustion process			Env-A 803.04;807.03	Env-A 1211.03
	05/31/95	Utility Boilers	At least 50 mmBtu/hr - coal,wet bottom	Tangential or face - 1.0		Daily	Initial compliance test & CEM	Env-A1211.03;1211.21(b)
	05/31/95	Utility Boilers	Cyclone furnace	<320 MW-0.92; >320 MW -1.4 or SNCR		Daily	Initial compliance test&CEM	Env-A1211.03;1211.21(b)
	05/31/95	Utility Boilers	At least 50 mmBtu/hr - coal,dry bottom	Tang - 0.38;Face-0.50;stoker-0.30		Daily	Initial compliance test&CEM	Env-A1211.03;1211.21(b)
	05/31/95	Utility Boilers	At least 50 mmBtu/hr-firing oil	Tang,face-oil - 0.35;Face-gas or oil and gas-0.25;Tang-0.25		Daily	Initial compliance test&CEM	Env-A1211.03;1211.21(b)
	05/31/95	Utility Boilers	At least 50 mmBtu/hr - only gas	0.2		Hourly	Initial compliance test&CEM	Env-A1211.03;1211.21(b)

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	05/31/95	Utility Boilers	At least 50 mmBtu/hr - wood fuel and oil	Stationary grate-0.25; other grates - 0.33		Daily	Initial compliance test&CEM	Env-A1211.03;1211.21(b)
	05/31/95	Utility Boilers	Wet-bottom cyclone	Coal or coal combination 15.4 TPD; other fuels - 3.8 TPD		Daily	Initial compliance test&CEM	Env-A1211.03;1211.21(b)
	05/31/95	Steam electric boilers	5-50 mmBtu/hr	Annual - efficiency test, adjust combustion process		Yearly	Env-A803.04;807.03	Env-A 1211.04
	05/31/95		>50 mmBtu/hr	RACT controls or comply with Industrial boilers limits		Daily	Initial compliance test&CEM or test every 3 yrs	Env-A 1211.04
	05/31/95	Industrial Boilers	5-50 mmBtu/hr	Annual - efficiency test, adjust combustion process		Yearly	Env-A803.04;807.03	Env-A 1211.05
	05/31/95	Industrial Boilers	50-100 mmBtu/hr; dry-bottom coal	Tang-0.38; Face-0.50; stoker - 0.30		Daily	Initial compliance test&CEM or test every 3 yrs	Env-A 1211.05
	05/31/95	Industrial Boilers	50-100 mmBtu/hr; oil only	No.2-0.12; No.4-6-0.30 or LNB		Hourly; Daily	Same as above	Env-A 1211.05
	05/31/95	Industrial Boilers	50-100 mmBtu/hr; Combination oil/gas	Firing gas only - 0.10 or LNB		Hourly	Same as above	same as above
	05/31/95	Industrial Boilers	50-100 mmBtu/hr; Combination oil/gas	Firing oil only - No.2-0.12; Nos.4-6-0.30 or LNB		Hourly; Daily	Same as above	same as above
	05/31/95	Industrial Boilers	50-100 mmBtu/hr; Combination oil/gas	Combination No.2 oil/gas-0.12; Nos.4-6 oil/gas-0.30 or LNB		Hourly; Daily	Same as above	same as above

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	05/31/95	Industrial Boilers	50-100mmBtu/hr;gas only	0.10 or LNB		Hourly;Daily	Same as above	same as above
	05/31/95	Industrial Boilers	50-100mmBtu/hr; wood or wood fuel/oil	Stationary grate-0.25;other grates - 0.33		Daily	Same as above	same as above
	05/31/95	Industrial Boilers	>100mmBtu/hr;Wet-bottom -coal or coal with other fuels	Tang,face-1.0; cyclone -0.92		Daily	Same as above	same as above
	05/31/95	Industrial Boilers	>100mmBtu/hr;dry-bottom -coal or coal with other fuels	Tang-0.38;Face-0.50;stoker - 0.30		Daily	Same as above	same as above
	05/31/95	Industrial Boilers	>100mmBtu/hr;oil,gas or combination	Tang,face -oil -0.30 or LNB;Face-gas or oil/gas-0.25		Daily	Same as above	same as above
	05/31/95	Industrial Boilers	>100mmBtu/hr;oil,gas or combination	Tang - gas or gas/oil - 0.25		Daily	Same as above	same as above
	05/31/95	Industrial Boilers	>100 mmBtu/hr;Gas only	Tang,face - 0.10 or LNB		Hourly	Same as above	same as above
	05/31/95	Industrial Boilers	>100mmBtu/hr;Wood or wood/oil	Stationary grate-0.25;other grates - 0.33		Daily	Same as above	same as above
	05/31/95	Gas Turbines	Combined/regenerative - no oil backup	42 ppmvd@15% oxygen or 0.155		Hourly	Same as above	Env-A 1211.06
	05/31/95	Gas Turbines	Oil backup	Gas - 42 ppmvd or 0.155; Oil-65 ppmvd or 0.253(more string)		Hourly	Same as above	same as above
	05/31/95	Gas Turbines	Combined/regenerative - oil fired	65 ppmvd or 0.253		Hourly	Same as above	same as above
	05/31/95	Gas Turbines	Simple cycle no oil backup	55 ppmvd@15% oxygen or 0.203		Hourly	Same as above	same as above
	05/31/95	Gas Turbines	Simple cycle - oil fired	75 ppm @15% oxygen or 0.292		Hourly	Same as above	same as above

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	05/31/95	Gas Turbines	Simple cycle - oil backup	Gas-55 ppmvd or 0.203; Oil - 75 ppmvd or 0.292		Hourly	Same as above	same as above
	11/01/02	Gas Turbines	Gas-fired constructed after 5/27/99	25 ppmvd; @15% oxygen or 0.092		Hourly	Same as above	same as above
	05/31/95	IC engines	Rich burn	1.5 g/bhp-hr		Hourly	Same as above	Env-A 1211.07
	05/31/95	IC engines	Lean burn	Gas-2.5; oil - 8.0 or 2.44 lb/mmBtu		Hourly	Same as above	Same as above
	05/31/95	Asphalt plant dryers	Rotary dryers - batch type; drum mix	0.12 lb/T of asphalt or 0.429		Hourly	Same as above	Env-A 1211.08
	05/31/95	Incinerators		0.53		Daily	Same as above	Env-A 1211.09
	05/31/95	Wallboard Manu.	Dryers, calcining mills, calciners, gypsum rock dryers	Gas - 0.10; or LNB or equivalent control		Hourly	same as above	Env-A 1211.10
	05/31/95	Wallboard Manu.	#2/#4-6 oil	0.10/0.30 or LNB or equivalent control		Hourly	Same as above	Same as above
	05/31/95	Emergency Gen	<500 hrs/12 consecutive mos. - turbines	Adjust combustion process			same as above	Env-A 1211.11
	05/31/95	Emergency Gen	<500 hrs/12 consecutive mos. - IC engines	Ignition timing -4 degrees retarded			Env-A803.04;807.03	Same as above
	05/31/95	Auxiliary Boilers		0.2		Daily	Same as above	Env-A 1211.12
	05/31/95	Load shaving units	Gas Turbines	0.9		Hourly	Same as above	Env-A 1211.13
	05/31/95	Load shaving units	IC engines	Rich - 2.0 g/hp-hr; Lean - gas -3.0; oil-fired-9.0 or 2.74 lb/mmBtu		Hourly	Same as above	Same as above

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	05/31/95	Multiple sources	Bubble from 2 or more sources in NH under single owner	Calculated by equation in Env-A12.11.17			CEM if generating emission credits for emission averaging	Env-A 1211.16;1211.21 (d)
	Note: NOx RACT orders, which take the place of the above rules	upon approval by EPA, have been issued to the following sources:	Groveton Paper Board; Plymouth Cogen; Waterville Valley Ski Area; Hampshire Chemical Corp.;	Crown Vantage (now Fraser); PSNH; Waste Management of NH - Turnkey; & Newington Energy				
	NOx RACT	DER trading	10% DERs retired	01/21/97	Statewide	daily	same as RACT	Env-A 3100
	NOx Budget Program	>15 MW; >250mmBtu/hr	5,119 allowances	05/01/99	Statewide	5/1-9/30	CEM	Env-A 3200
	NOx Budget Program	>15 MW; >250mmBtu/hr	3,639 allowances	05/01/03	Statewide	5/1-9/30	CEM	Env-A 3200
	NOx Budget Program	>15 MW; >250mmBtu/hr	2,900 allowances	05/01/06	Statewide	5/1-9/30	CEM	Env-A 3200
	Multi-P Budget Program	>25 MW pre-2002	3,644 allowances	01/01/07	Statewide	annual	CEM	Env-A 2900
			WEB SITE	www.des.state.nh.us/rules/env-a1200.pdf				
RI	05/31/95	Facilities with PTE at least 50 TPY- RACT required	Utility Boilers	Gas or LPG - 0.20; Fuel oil - 0.25	Statewide		CEM	APC Reg 27
		Same as above	Non-utility boilers at least 50 mmBtu/hr	Gas - 0.10; Distillate oil/LPG - 0.12	Statewide		CEM or source test	APC Reg 27

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
		Same as above		Residual oil-LNB+FGR or equivalent controls	Statewide		CEM or source test	APC Reg 27
		Same as above	Non-utility boilers 1-50 mmBtu/hr	annual tune up	Statewide		CEM or source test	APC Reg 27
		Same as above	IC engines	Gas -rich or lean burn-1.5g/bhp-hr; Fuel oil-lean-9.0	Statewide		CEM or source test	APC Reg 27
	10/21/99	Trading Program			statewide			APC Reg 41
			WEB SITE	www.state.ri.us/dem/pubs/regs/REGS/AIR				
VT	05/31/95	Fossil fuel burning equip	At least 250 mmBtu/hr - excluding gas turbines	Gas-0.20; liquid-0.3;solid - 0.7	Statewide			5-251
	05/31/95	RACT	Sources with allowable emissions at least 100 TPY	Install RACT controls	Statewide			5-251
		IC engines	At least 450 bhp-installed or manu before 7/1/07	6.9 g/bhp or 505 ppmv @15% oxygen-dry basis	Statewide			5-271
		IC engines	At least 450 hp-Installed or manu after 7/1/07	4.8 g/bhp-hr or 350 ppmv@15% oxygen-dry basis	Statewide			5-271
			WEB SITE	www2.anr.state.vt.us/dec/air/docs/apcregs.pdf				
NJ	05/31/95	Utility Boilers	Coal - wet bottom - Tangential, Face, Cyclone	1.0, 1.0, 0.60	All statewide	Yearly	CEM	7:27-19.4 RACT
			Coal - dry bottom - Tangential, Face,	0.38, 0.45, 0.55		Yearly	CEM	
			Oil and/or gas - same as above	0.20, 0.28, 0.43		Yearly	CEM	
			Gas only	0.20, 0.20, 0.43		Yearly	CEM	
	05/31/95	Gas turbines	Simple cycle - Oil, Gas (≥30 mmBtu/hr)	0.4, 0.2		Yearly		7:27-19.5 RACT

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
			Combined or regenerative cycle - oil, gas (≥30mmBTU/hr)	0.35, 0.15		Yearly		
	5/31/1995	Emissions Averaging	In lieu of complying with 19.4, 19.5, 19.7 thru 19.10	Determine daily emission limit using equations		Yearly		7:27-19.6 RACT
	05/31/95	Non-utility Boilers & other indirect heat exchangers	≥20< 50 mmBtu/hr	Annually adjust combustion process or CEM(20-50) & meet limit below for 50-100mmBTU/hr		Yearly	Annually adjust comb process or install CEM	7:27-19.7 RACT
			>50<100 mm Btu/hr- Coal wet bottom - Tang,face,cyclone	1.0, 1.0, 0.55		Yearly	50-250 - annually adjust or install CEM	
			Coal dry bottom - Tang, Face, cyclone	0.38, 0.43, 0.55		Yearly		
			#2 Fuel oil - same as above	0.12		Yearly		
			Other liquid fuels	0.3		Yearly		
			Refinery Fuel gas	0.2, 0.2, N/A		Yearly		
			Natural gas	0.1		Yearly		
			≥100 mmBtu/hr-coal wet bottom	1.0, 1.0, 0.6		Yearly	CEM>250m mBtu/hr	
			Coal dry bottom - Tang, Face, cyclone	0.38, 0.45, 0.55		Yearly		
			Oil and/or gas - same as above	0.20, 0.28, 0.43		Yearly		
			Refinery Fuel gas - same as above	0.2, 0.2, N/A		Yearly		
			Natural gas - same as above	0.2, 0.2, 0.43		Yearly		
		IC engines	Gas - rich burn > 500 HP	1.5 g/hp-hr		Yearly		7:27-19.8 RACT

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
			Gas- lean burn >500 HP	2.5 g/hp-hr		Yearly		
			Liquid - >500 HP	8.0 g/hp-hr		Yearly		
		Rotary Dryer at Asphalt plant	PTE ≥ 25 TPY	200 ppmvd@7% oxygen		Yearly	Annual adjust combustion	7:27-19.9 RACT
	05/01/97	Glass melting furnaces	Container glass ≥ 14 tpd glass & PTE >10 tpy	5.5 lb/t of glass pulled		Yearly		7:27-19.10 RACT
			Specialty glass ≥ 7 tpd glass & PTE >10 tpy	11 lb/t		Yearly		
			Borosilicate glass ≥ 5 tpd glass & PTE >10 tpy	30 % reduction from baseline		Yearly		
	05/31/95	Facility Specific	(1) Major facility not listed above, with PTE >10 TPY or (2) if a source seeks approval of an alternative maximum allowable emission rate in lieu of the presumptive emission limit	Analysis of RACT controls; select control; NJ approves RACT emission limit & submits to EPA as a SIP revision		Yearly		7.27-19.13 RACT
		Fuel switching	Combust clean fuel during the Ozone Season. In lieu of complying with 19.4, 19.5, 19.7 thru 19.10	Determine daily emission limit using equations		Yearly		7.27-19.20 RACT
				30 day average - no higher than rate under 19.4,5; 19.7-19.10		Yearly		
				Annual limit - determined by equation		Yearly		

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	05/31/95	Repowering	Applications were due by 6/22/95. In lieu of complying with 19.4,5,7-10	Evaluate controls; determine c/e;select control;interim emission limit		Yearly		7:27-19.21 RACT
			Utility boilers - repowered - coal wet bottom	Tang, Face, Cyclone 0.2		Yearly		
			-coal -dry bottom	Tang,face - 0.2		Yearly		
			-Oil and/or gas	All - 0.1		Yearly		
	5/31/1995	Exemption for emergency use of fuel oil	In lieu of complying with 19.4, 19.5, 19.7 thru 19.10, 19.13, 19.20 thru 19.23	Exemption for the emergency use of fuel oil or other liquid fuel in place of natural gas		Keep records		7:27-19.24 RACT
	5/31/1995	MEG Alert	EGUs operating at emergency capacity, at the direction of the load dispatcher, on or before 11/15/05	Temporary exemption from permit limit but must compensate for excess emissions at 1.3:1 ratio				7:27-19.25 RACT
	5/1/03	NOx Budget Trading Program	Fossil fuel fired boiler or other indirect heat exchanger-at least 250 mmBtu/hr or EGU at least 15MW	Allowances & Trading Program	Statewide	Ozone season	CEM	Subchapter 31
		By mid-2004 NJ is expected to propose revisions to Subchap.19		www.state.nj.us/dep.agm/rules.htm				
NY	5/1/03	NOx Budget Trading Program	EGUs ≥ 15 MW; non EGUs ≥ 250mmBtu/hr; Portland Cement Plants ≥ 250mmBTU/hr	Allowances & Trading Program	All statewide	Ozone season	CEM	Part 204

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	12/6/2005	Small MWC	Small Municipal Waste Combustion (MWC) units constructed on or before 8/30/99 with unit capacity's $\geq 35 \leq 250$ TPD municipal waste. .	Class I units (plant capacity >250 TPD) - 170 to 380 ppmvd at 7% O2 depending upon type combustor; Class II units (plant capacity ≤ 250 TPD) - no limit.		Yearly	CEM	Part 219-8
	8/26/2002	Large MWC	Large MWC units constructed on or before 9/20/94 with unit capacity >250 TPD municipal waste.	205-250 ppmvd at 7% O2 depending upon type combustor; no limit for mass burn refractory type.		Yearly	CEM	Part 200.10 Table 2, (40 CFR 60 Subpart Cb)
	05/31/95	Portland cement kilns	Sources with PTE 25 TPY in NYC and lower Orange county metro areas; PTE 100 TPY elsewhere in State	Analysis of RACT controls; select control; NY approves RACT emission limit & submits to EPA as a SIP revision				Part 220 RACT
	05/31/95	General Process Sources, including existing nitric acid plants	PTE - same as above for cement kilns (RACT)	RACT determination - as described above for cement kilns.		Yearly	Stack test	Part 212 RACT
	New Sources after 8/18/71	Nitric acid plants		3.0 lbs/T of 100% nitric acid produced		Yearly	CEM	Part 224
	05/31/95	By-Product Coke Oven Batteries	PTE - same as above for cement kilns (RACT)	RACT determination - as described above for cement kilns.		Yearly	Stack test or CEM	Part 214 RACT

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	05/31/95	Iron and/or steel processes	PTE - same as above for cement kilns (RACT)	RACT determination - as described above for cement kilns; OR permit that limits PTE to below 25 or 100 TPY, as applicable.		Yearly		Part 216 RACT
	05/31/95	Boilers >250 mm btu/hr	Gas - Tangential, Wall	0.2		Yearly	CEM (24 hr average)	Part 227-2 RACT
	05/31/95		Gas/Oil - Tangential, Wall	0.25		Yearly	CEM	
	05/31/95		Coal - wet bottom - Tangential, Wall, Cyclone	1.0, 1.0, 0.6		Yearly	CEM	
	05/31/95		Coal dry bottom - Tangential, Wall, Stoker	0.42, 0.45, 0.30		Yearly	CEM	
	05/31/95	Boilers >100<250 mmBtu/hr	Gas; Gas/oil	0.20, 0.30		Yearly	CEM or yearly stack test	
	05/31/95		Pulverized Coal	0.5		Yearly	CEM or yearly stack test	
	05/31/95		Coal (overfeed stoker)	0.3		Yearly	CEM or yearly stack test	
	05/31/95	Boilers >50≤100 mmBtu/hr	Gas; distillate oil	Install LNB for both OR meet 0.10; 0.12		Yearly	Initial compliance test	
	05/31/95		Residual oil	Install LNB + FGR OR meet 0.30		Yearly	Stack test or CEM	
	05/31/95		where physical restraints prevent meeting presumptive	Case by case RACT analysis submitted to EPA as a SIP revision		Yearly	Stack test or CEM	
	05/31/95	Boilers >20≤50 mmBtu/h	All	Annual tuneup prior to June 1		Yearly		

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	05/31/95	Turbines > 10 mmBtu/hr	Simple cycle; regenerative - gas; multiple fuels	50 ppmvd @15% oxygen; 100	Statewide	Yearly	CEM(24 hr) or stack test	
			Combined cycle - gas; oil	42 ppmvd; 65 ppmvd	Statewide	Yearly	CEM(24 hr) or stack test	
			Other fuels (e.g. - landfill gas)	Case by case RACT analysis submitted to EPA as a SIP revision	Statewide	Yearly		
	05/31/95 AND 4/1/2005	IC engines	≥200 HP - severe NA; ≥400 HP - rest of state	Rich - 2.0 g/bhp-hr till 3/31/05 then 1.5; Lean spark ignited (gas) - 3.0 till 3/31/05 then 1.5; Lean compression ignited - 9.0 till 3/31/05 then 2.3; landfill or digester gas - 9.0 till 3/31/05 then 2.0. ALTERNATIVELY - an emission limit that reflects 90% reduction from 1990 baseline, if applicable.	Statewide	Yearly	CEM(24 hr) or stack test	
	5/31/1995	Other combustion sources	Applicable to major sources not having a presumptive emission limit	Case-by-case RACT analysis submitted to EPA as a SIP revision	Statewide	Yearly		

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	5/31/1995	Compliance options	Fuel switching - sources that combust cleaner fuels during ozone season	Must result in quantifiable emissions equivalent to emissions if the source complied with presumptive limit.	Statewide	Yearly		
			System wide averaging all units	Average emissions from owner operated units to be equivalent to emissions if units operated at presumptive emission limits.	Statewide	Yearly		
			Alternative RACT emission limit	Case-by-case RACT analysis submitted to EPA as a SIP revision	Statewide	Yearly		
			WEB SITE	www.dec.state.ny.us/website/regs/				
DE	05/31/95	RACT	Fuel burning equipment- at least 100 mmBtu/hr	Gas - face and tang- 0.20; Oil or oil/gas- Face, tang- 0.25; cyclone- 0.43; coal face, tang- 0.38; stokers- 0.40	All Statewide	24-hr rolling avg	>250-CEM; 150-250 - CEMS/enhanced monitoring w/periodic source tests ; 100-150 - same as 150-250 or periodic source tests	Regulation No.12

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	05/31/95		Fuel burning equipment-50-100 mmBtu/hr	LEA/LNB or FGR				
	05/31/95		Fuel burning equipment-<50 mmBtu/hr	annual tune up				
	05/31/95		Stationary IC engines	Gas-pre-ignition chamber or clean burn;diesel-lean burn				
	05/31/95		Gas turbines	Gas, liquid - 42, 88 ppm @ 15% oxygen		1 hr average	CEMS	
	05/01/99	NOx Budget Program	Unit serving generator at least 15MW; or at least 250 mm Btu/hr	Hold allowances for each ton emitted				Regulation No.37
	05/01/03	Trading Program	Unit serving generator at least 15MW; or at least 250 mm Btu/hr	Hold allowances for each ton emitted				Regulation No.39
	05/1/04	Beyond RACT	Any combustion unit>=100mmBtu/hr, except those emitting NOx at a rate <=rate in Table 1 of Regulation No.12 equipped with LNB, FGR, SCR, SNCR or subject to Reg. No.39	0.1	Statewide-ozone season	24-hr calender day average	CEMS	Reg. No 42
	05/1/04	Beyond RACT	Same as above	0.25	Statewide(Oct 1- April 30)	24-hr calender day average	CEMS	Reg. No 42
			WEB SITE	www.dnrec.state.de.us/air/aqm_page/docs/pdf/reg_12.pdf				
MD	????	Nitric Acid	Nitric acid plants	3.0 lb/T of 100%acid produced	Statewide			COMAR26.11.06.15

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	??????	EGU-Fuel-burning equip>250mmBtu/hr	Coal	Tang-0.45; Wall-0.50	Premises w/ PTE at least 25 TPY - Balt/DC areas; at least 100 TPY other cos	30 day rolling avg	CEM or approved alternate	26.11.09.08
			Oil or gas/oil	0.3		30 day rolling avg	Same as above	Same as above
			Coal -cyclone	0.70(May 1-Sept 30);1.5(Oct1-Apr30)		ozone season;rest of yr	Same as above	Same as above
			Coal - high heat release rate	Tang-0.70;Wall-0.80		30 day rolling avg	Same as above	Same as above
			Coal- cell burners	0.6		30 day rolling avg	Same as above	Same as above
		NonEGU Fuel burning>250mmBtu/hr	All fuels	0.7(May 1-Sept30-);0.99(OCT1-Apr30)		ozone season;rest of yr	Same as above	Same as above
		Fuel-burning equip-100-250mmBtu/hr	Coal	0.65				Same as above
			Gas only;Gas/Oil	0.20;0.25				Same as above
		Fuel-burning equipment<100 mmBtu/hr		Annual combustion analysis and optimization				Same as above
		Gas Turbines	>15% capacity factor	Gas - 42 ppm;Oil-65ppm@15% oxygen				Same as above
		Cement kilns	Capacity no more than 600,000 TPY	0.5 TPH		30 day rolling avg	CEM	Same as above
			Capacity greater than 600,000 TPY	0.9 TPH		30 day rolling avg	CEM	Same as above
		MWC		205 ppm		24-hr avg	CEM	Same as above
		HMII		250 ppm		24-hr avg		Same as above

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
		Glass melting furnace	Daily oxygen tests	Excess oxygen-no more than 4.5%				Same as above
		IC engines over 15%capacity	Facilities with 5 or less engines;more than 5	300lb/hr; 566 lb/hr				Same as above
	05/01/00	Budget Source	>=250mmBtu/hr or>=15MW	Hold allowances for each ton emitted			CEM	26.11.29.01-.14
	05/1/03	Trading Source	EGU>250 MW;nonEGU>250mmBtu/hr	Hold allowances for each ton emitted			CEM	26.11.29.01-.14
	05/1/03	Non-trading source	Cement Kilns	Long wet-6.0 lb/T of clinker;long dry-5.1;preheater/precalciner or pre-calciner-2.8			CEM	26.11.29.15
	05/1/03	Non-trading source	IC engine with average daily emissions>=1 TPD	90% reduction or rich burn>=2400HP-110ppmv@15%O2;Lean burn>=2400HP-125;Diesel >=3100HP-175;Dual fuel>=4400HP-125			CEM	Same as above
			WEB SITE	www.dsd.state.md.us/comar/26/26.11.09.08.htm				
PA	05/01/05	Boilers	Gas - 100-250 mmBtu/hr	0.1 or 60 % reduction from 1990 rate	Bucks, Chester, Montgomery, Phil	All Ozone season		Chapters 121, 129
	05/01/05		Solid/liquid fuel	0.2 or 60 % from 1990	Same as above	All Ozone season		Same as above-large sources in Chap 145-not covered

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	05/01/05		> 250 mmBtu/hr	lower of permit limit or 0.17-mayaverage	Same as above	All Ozone season		Proposed rule/amendments to Chapters 121,129.201-.203
		Turbines	100 -250 mmBtu/hr -	Gas-44 ppmvd	Same as above	All Ozone		Same as above
				Oil - 65 ppmvd or 60% reduction from 1990	Same as above	All Ozone season		Same as above
			100-250mmBtu/hr - Simple cycle	Gas - 55 ppmvd or 60%	Same as above	All Ozone season		Same as above
				Oil - 75 ppmvd or 60%	Same as above	All Ozone season		Same as above
			>250 mmBtu/hr	lower of 0.17 or Chapter 127 permit	Same as above	All Ozone season		Same as above
	5/1/2003	Cap and Trade	Units serving EGU > 25 MWe	Hold 1 allowance per ton of NOx emitted	Statewide			Chapter 145, Subchapter A
	05/01/03	Cap and Trade	Non-EGU>250 mmBtu/hr	Hold 1 allowance per ton of NOx emitted	Statewide			Chapter 145, Subchapter A
		IC engines	>1,000 HP Spark ignited	1.5 g/bhp-hr or 80% from 1990-may average	Statewide			Proposed rule/amendments to Chapters 121,129.201-.203
	05/01/05			Compression - 2.3 or 80%	Statewide			Same as above
		IC engines	Lean burn > 2,400 HP	91% from 1990-may average	Statewide		CEM or alternate	Chapter 145;Subchapter B-proposed
	05/01/05		Rich burn > 2,400 HP	90% from 1990	Statewide			Same as above
			Diesel >3,000 HP	90% from 1990	Statewide			Same as above
			Dual > 4,400 HP	90% from 1990	Statewide			Same as above
		Cement	Kilns	LNB or mid-kiln firing or alt. that achieves 30% reduction	Statewide		CEM	Chapter 145-Subchapter C-proposed

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	09/11/71	Nitric Acid		5.5 lbs/ton of 100% acid	Statewide			Section 129.11
	07/31/95	Major sources		RACT	Statewide		>250mmBtu/hr- CEM	Section 129.91
			Coal fired>100 mmBtu/hr	LNB+SOFA	Statewide			Section 129.93
			Combustion unit 20-50mmbtu/hr	annual adjustment/tuneup	Statewide			Same as above
			Combustion sources <20mmBtu/hr	Manufacturer's specs	Statewide			Same as above
			GT <25mmbtu/hr - natural gas distribution	same as above	Statewide			Same as above
			IC engines <500 HP;4 degree ignition retard	same as above	Statewide			Same as above
			Incinerators/oxidizers used for air pollution control	same as above	Statewide			Same as above
			Fuel burning, GT or IC engine <5% annual capacity	same as above	Statewide			Same as above
			Emergency engine <500 hrs in consecutive 12-mo	same as above	Statewide			Same as above
			Sources meeting LAER since 11/15/90	same as above	Statewide-but not in approved SIP			Sections 129.93(c)(6) and (7) are not in the approved SIP
			Sources meeting BACT since 11/15/90	same as above and any limits set by EPA /PA	Statewide-but not in approved SIP			Same as above

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
			WEB SITE	www.dep.state.pa.us/dep/deputate/airwaste/aq/regs/regs.htm				
VA	03/17/92	Nitric acid	Production unit	5.5 lb/Tof 100% acid produced	Statewide		CEM> 300 TPD of 100% acid	9VAC 5 Chap40;article 23
	05/31/95	RACT	PTE before controls at least 50 TPY	RACT as defined in 9 VAC 5-40-310	Northern VA			9VAC 5 Chapter40-310
	03/17/92	RACT	Steam gen & process heaters - coal -wet bottom	Face or Tang-1.0;cyclone-0.55	Northern VA	Daily		9VAC 5 -40-311
	03/17/92		Coal-dry bottom	Face or Tang-0.38;stokers-0.4	Northern VA	Daily		Same as above
	03/17/92		Oil or gas or both	Face or Tang-0.25;cyclone-0.43	Northern VA	Daily		Same as above
	03/17/92		Gas only	Face or Tang-0.20	Northern VA	Daily		Same as above
	03/17/92		Gas turbines -gas	Simple and combined cycle - 42 ppmv@15% oxygen	Northern VA	Daily		Same as above
	03/17/92		Gas turbines - oil	Simple and combined cycle - 65; 77 if FBN at least 0.015%	Northern VA	Daily		Same as above
	07/01/00		HMIWI	250 ppmv	Northern VA			9VAC 5-40-6070
	8/4/1999		MWC	Massburn(ww) - 205ppm;RDF-250;FBC-180	Northern VA			9VAC5-40-8050
			WEB SITE	www.deq.state.va.us/air/regulations				
DC	5/31/95	RACT	PTE before controls at least 50 TPY		District-wide			chapter 8, section 805
	5/31/95	RACT	Steam Gen 20 mmBTU/hr or greater	annual adjustment/tuneup	District-wide			Same as above

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	5/31/95	RACT	Gas turbines or at least 100 mmBTU/hr operated for 500 hr/yr or more	simple cycle oil-fired, 75 ppmvd @15% O ₂ ,	District-wide			Same as above
	5/31/95	RACT	Gas turbines or at least 100 mmBTU/hr operated less than 500 hr/yr	maintain records showing less than 500 hr/yr operation.	District-wide			Same as above
	5/31/95	RACT	with PTE at least 50 TPY	& 500 ppmvd CO @ 7% O ₂	District-wide			Same as above
	5/31/95	RACT	mmBTU/yr & <= 100 mmBTU/hr	tang or face, oil- fired 0.30	District-wide	Calendar Day		Same as above
	5/31/95	RACT	Steam Gen >= 100 mmBTU/hr	dry bottom coal - face, tang, stoker - 0.43; oil/gas-oil, face of tang - 0.25; gas only fueled - 0.20	District-wide	Calendar Day		Same as above
	5/1/2000	NOx Budget Program	fossil-fuel-fired boiler/indirect heat exchanger 250 mmBTU/hr or more or electric generating facility 15 MWe or more	hold allowance for each ton emitted	District-wide		CEMS if subject to 40 CFR part 75	20 DCMR Chapter 10.
	5/1/03	NOx SIP Call	sources subject to 40 CFR part 96	hold allowance for each ton emitted	District-wide			Chapter 10, section 1014.
	1/1/05	RACT	PTE before controls at least 25 TPY					
	1/1/05	RACT	with PTE at least 25 TPY	& 500 ppmvd CO @ 7% O ₂				
AL	04/06/01	Cement kilns	Long dry -12 TPH; Long wet - 10TPH;Preheater-16TPH ; Precalciner & PH/PC-22 TPH	LNB or mid-kiln firing or equivalent controls	Various counties	Ozone season		335-3-8-.01

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	01/18/72	Nitric acid plants	Plants >150 TPD of 100% acid	20 lb/T of 100% acid produced	Statewide			335-3-8.02
			Other nitric acid plants	5.5 lb/T of 100% acid produced	Statewide			335-3-8.02
	05/01/03	EGU		0.21	Walker, Jefferson counties	30-day rolling average during ozone season	CEM	335-3-8.03
	04/06/01	Trading Program			Various counties			335-3-8.05
			WEB SITE	www.adem.state.al.us/Regulations/regulations.htm				
GA		Fuel-burning equip	At least 250 mmBtu/hr constructed or modified after 1/1/72	Coal -0.7; Oil - 0.3; Gas - 0.2	Statewide			Rule 391-3-1-.02(d)
		Major sources	PTE > 50TPY	RACT	Various counties			(yy)
	05/01/03		PTE > 100 TPY	RACT	Various counties			
	05/01-9/30/99	EGU's	Average of all affected units	0.34				(jjj)
	05/01/03	GT/IC engines-electricity	IC engines operating before 4/1/00	160 ppm@15% oxygen	Statewide	ozone season		(mmm)
	Upon startup	At least 100 kW & no larger than 25 MW	IC engines installed or modified after 4/1/00	80 ppm@ 15% oxygen	Statewide	ozone season		
	05/01/00		GT - operating on or after 1/1/99 and before 10/1/99	42 ppm@ 15% oxygen	statewide	ozone season		
	Upon startup		GT installed or modified after 10/1/99		Statewide	ozone season		

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	5/1/03	Large GT>25MW	Permitted before 4/1/00;after 4/1/00	30 ppm; 6 ppm	Various counties	ozone season		(nnn)
			WEB SITE	www.state.ga.us/dnr/environ				
KY	08/15/01	NOx Budget Trading	Large utility and industrial boilers			ozone season		401 KAR 51:160
	08/15/01	Cement kilns	Process rates at least(TPH)-long dry-12;long wet-10;preheater-16;PH/PC-22	6.6 lbs/T of clinker	Statewide	30 day rolling avg-ozone season	CEM	401 KAR 51:170
	06/06/79	Nitric acid plants		5.8 lb/T of 100% nitric acid				401 KAR 61:065
			WEB SITE	www.lrc.state.ky.us/kar/401/051/160.htm				
NC	07/15/02	Boilers/indirect PH	<= 50 mmBtu/hr	Annual tune up	Char;Triad, Tri angle	ozone season		15A NCAC 2D.1407
			>50 mmBtu/hr;coal(wet bottom)	Tang - 1.0; Wall-0.50	Char;Triad, Tri angle	ozone season	CEM>250m mBtu/hr;	
			Coal(dry bottom)	Tang-0.45; Wall-0.50;Stoker - 0.40	Char;Triad, Tri angle	ozone season	annual test 50-250mmBtu/hr	
			Wood or refuse	Tang-0.20; Wall-0.30;Stoker-0.20	Char;Triad, Tri angle	ozone season	Same as above	
			Oil	Tang, Wall, Stoker - 0.30	Char;Triad, Tri angle	ozone season	Same as above	
			Gas	Tang, Wall, Stoker - 0.20	Char;Triad, Tri angle	ozone season	Same as above	
	07/05/02	Gas Turbines	100 - 250 mmBtu/hr	75 ppmv @ 15% oxygen-gas; 95 ppmv-oil	Char;Triad, Tri angle	ozone season	CEM or annual source test	D.1408
	07/05/02	IC engines	At least 650 HP	Rich,lean-2.5 g/hp-hr;compression ignition-8.0	Char;Triad, Tri angle	ozone season	Annual test	D.1409

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	2006		TGP Stations 150, 155,160	76;127;149 T		ozone season	CEM or alternate	
	07/15/02	Emission averaging	Applies to sources subject to Rule 1402	Total emissions < or = sources meet emission limits	Statewide	ozone season		D.1410
	07/15/02	Seasonal fuel switching	Coal or oil	Comply by burning natural gas 10/1-4/30- resulting in less annual emissions than burning coal	Statewide	Yearly		D.1411
	07/05/02	Sources not listed	other sources at facilities with PTE >100 TPY or 560 lbs/day	RACT	Statewide	ozone season		D.1413
	07/15/02	EGU's permitted after 10/31/00	Fossil fired boiler,gas turbine;combined cycle >25MW	0.15 -gaseous and solid;0.18-liquid-not subject to PSDor NSR	Statewide	ozone season	CEM	D.1418
		New Large boilers	same as above >250mmBtu/hr	0.17-gas, solid fuels;0.18-liquid fuel-not subject to PSD or NSR	Statewide	ozone season	CEM	
		New IC engines	Rich, lean burn >2,400HP;Diesel>3,000 HP;dual>4,400HP	More stringent-Rule1423 or BACT	Statewide	ozone season	CEM	
		Budget Training Program	Existing sources	Sources under Rule 1416,1417 may comply with 40CFR96	Statewide			D.1419
			New sources except IC engines	Sources under Rule 1418 may comply with 40CFR96				
			Opt-in sources not covered by Rule 1416-1418 or IC engines	40CFR Part 96				

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	07/15/02	IC engines	permitted after 10/30/00- not subject to PSD or NSR					D.1423
			Rich,lean burn at least 2,400HP-30 day avg	Rich-110 ppm; lean- 125 ppm @15% oxygen-dry basis	Statewide		CEM	
			Diesel at least 3,000HP;dual fuel at least 4,400HP	Diesel - 175 ppm; dual fuel - 125 ppm	Statewide		CEM	
			For engines with efficiency>30%	Adjust emission limit - % eff/30% eff	Statewide		CEM	
SC	05/31/04	Cement kilns	Process rates at least(TPH)-long dry- 12;long wet- 10;preheater-16;PH/PC- 22 or NOx>1 TPD	LNB or mid-kiln firing or similar controls	All Statewide	ozone season	CEM or annual source test	61-62.99 Subpart B
	05/31/04	NOx Budget Trading						61-62.96 Subpart A
		EAC	sources not subject to BACT;new sources; burner replacement; relocated sources					Reg61- 62.5;Standard No.5.2
			New or relocated- Boilers -natural gas - 10- 100 mmBtu/hr; >100mmBtu/hr	LNB or equiv. - 0.036; 0.036				
			N/R- Boilers - DO - 10- 100mmBtu/hr;>100mm Btu/hr	0.15;0.14				
			N/R- Boilers - RO - 10- 100mmBtu/hr;>100mm Btu/hr	0.3				
			N/R - Boilers - Wood residue	0.2				

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
			N/R- Boilers - Coal-fired stokers- <250mmBtu/hr;>250 mmBtu/hr	0.35;0.25				
			N/R-Boilers-PC-<250 mmBtu/hr;>250	0.35;0.14				
			N/R- Boilers- Municipal refuse;<250; >250	0.35; 0.18				
			IC engines-compression ignition	7.64 g/bhp-hr				
			IC engines-spark ignition	1.0 g/bhp-hr				
			IC engines- landfill or digester	1.25 g/bhp-hr				
			Gas Turbines -simple cycle- natural gas;<50MW;>50MW	25ppmv@15% O2;9.0 ppmv@15% O2				
			GT- combined cycle - natural gas;<50MW;>50 MW	9.0ppmv@15% O2; 3.0				
			GT- simple cycle-DO	42 ppmv				
			GT-combined cycle- distillate oil;<50MW;>50 MW	42 ppmv; 10 ppmv				
			GT- landfill gas	25 ppmvd;@15% oxygen				
			Cement kilns	LNB or equivalent capable of achieving 30% reduction				
			FBC boiler-coal or wood fired	51.8 ppm@ 3% O2				
			Recovery furnaces	100 ppm@8% O2				
			Lime kiln	175 ppm@ 10% O2				

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
			Other fuel combustion sources	LNB or equivalent capable of 30% reduction				
			Existing sources	Replacing existing burner- LNB				
			WEB SITE	www.sdhec.gov/eqc/baq/regs/pdf/r61-61.pdf				
TN		General Provisions	Any facility that emits at least 25 TPY annually	Submit yearly report	Davidson, Ruth erford, Sumner, Williamson, Wilson Cos			1200-3-27-.02
	07/31/95	RACT	Facilities that emit or PTE 100 TPY before control	RACT required	Same as above			1200-3-27-.03
	07/31/95		Tangential fired coal burning boilers > 600 mmBtu/hr	0.45	Same as above	30-day rolling average		
	05/31/04	Cement kilns	Process rates (TPH) at least-long dry-12; long wet-10; preheater-16; PH/PC-22	LNB or mid-kiln firing or similar controls or RACT	Statewide	ozone season		1200-3-27-.04
	05/31/04	NOx Budget Trading			Statewide			1200-3-27-.06
			WEB SITE	www.state.tn.us/sos/rules/1200/1200-03/1200-03.pdf				
IL	03/15/01	New Fuel combustion	At least 250 mm Btu/hr	Gas - 0.20; Liquid - 0.30	Statewide	Hourly		Part 217; Subpart B
				Dual - 0.30; solid -0.7	Statewide	Hourly		
		Existing Fuel combustion	At least 250 mm Btu/hr	Gas/liquid -0.3; solid-0.9	Chicago/St Louis metro areas	Hourly		Part 217; Subpart C

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
		Process emissions	Producing products of organic nitrations and oxidations using nitric acid	New - 5 lb/T of nitric acid used; Existing - 10 lb/T	Statewide			Part 217; Subpart K
		Nitric acid manufacturing	Weak acid processes - new	3 lb/T of 100% acid; 0.1 from storage tank vents	Statewide			Part 217; Subpart O
			Weak acid processes - existing	5.5 lb/t; 0.2 from storage tank vents	Statewide			
			Concentrated acid processes	3.0 lb/t; 225 ppm	Statewide			
			Acid concentrating process	3.0 lb/T	Statewide			
	05/30/04	Cement kilns	Long dry kilns at least 12 TPH	5.1 lb/T or 30% reduction or LNB or mid kiln firing	Statewide	Ozone season	Annual stack test	Part 217; Subpart T
			Long wet kilns at least 10 TPH	6.0 lb/T or same as above	Statewide	Ozone season	Annual stack test	
			Preheater kilns at least 16 TPH	3.8 lb/T or same as above	Statewide	Ozone season	Annual stack test	
			Preheater/precalciner kilns at least 22 TPH	2.8 lb/T or same as above	Statewide	Ozone season	Annual stack test	
	4/17/01	EGU's; Non-utility Boilers; Gas Turbines	Various identified units > 250 mmBtu/hr; EGU's < 25 MW	Allocation requirements	Statewide	Ozone season	CEM	Part 217; Subpart U
	5/1/03	EGU's	EGU's > 25 MW	0.25 lb/mmBtu-may average	Statewide	Ozone season	CEM	Part 217; Subpart V
	05/31/04	EGU's	>25 MW	Trading Program	Statewide	Ozone season	CEM	Part 217; Subpart W
			WEB SITE	www.ipcb.state.il.us/Archive				
IN	12/14/96	Clark, Floyd Cos	Any source PTE at least 100 TPY from all facilities	RACT	Clark, Floyd Cos	Annual	CEM	326 IAC 10-1-1

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
			Any facility PTE >40 TPY and located at source PTE>100 TPY	RACT	Same as above	Annual	CEM	
			Sources constructed, modified or reconstructed	More stringent - BACT or this rule	Same as above	Annual	CEM	
					Same as above	Annual	CEM	
	Util - 11/1/96	Requirements	Fuel switching;emission averaging; alt emission limit		Same as above	Ozone season		326 IAC 10-1-3
		Emission limits	Cement kilns - long dry-at least 20 TPH	Daily - 10.8 lb/T; Rolling 30 day - 6.0 lb/T	Clark, Floyd Cos;may avg among plants statewide under same owner	ozone season	CEM	326 IAC 10-1-4
			Preheater kilns at least 20 TPH	Daily - 5.9 lb/T; Rolling 30 day - 4.4 lb/T	Same as above	ozone season	CEM	
			EGU -at least 250 mmBtu/hr;PC - wall fired, dry bottom	Rolling 30 day - 0.5	Same as above	ozone season	CEM	
			EGU - Dist; resid;natural gas	Rolling 30 day - 0.2;0.3;0.2	Same as above	ozone season	CEM	
			ICI boilers at least 100 mmBtu/hr - coal	Rolling 30 day - wall, spreader stoker - 0.5	Same as above		CEM	
				Rolling 30 day - tangential, overfeed stoker-0.4	Same as above	ozone season	CEM	
			Dist oil, gas;resid oil	Rolling 30 day-0.2, 0.3	Same as above	ozone season	CEM	

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
			Other facilities - PTE at least 40 TPY	At least 40% control - 3 hr basis or rolling 30 day	Same as above	ozone season	CEM or alt. Method if CEM-not technically feasible	
		Reduction - certain categories	Cement kilns - long dry at least 12 TPH; long wet- 10 TPH	5.1, 6.0 lb/T or LNB or mid kiln firing or 30%control	Statewide	ozone season	CEM unless LNB or mid-kiln	326 IAC 10-3
			Preheater kilns at least 16 TPH;precalciner and PH/PC - 22 TPH	3.8, 2.8 lb/T; same as above	Statewide	ozone season	same as above	
			Boilers - applies to specified boilers	0.17	Specified boiler	ozone season	Monitor fuel usage	
		Budget Training Program			Statewide			326 IAC-1-4
		MWC	>250 TPD - constructed before 9/20/94	205 ppmv@7%oxygen www.in.gov/legislative/iac/title326.html	Statewide			326 IAC -11-7
			WEB SITE					
MI	12/04/02	Non SIP Call	Fossil fired EGU PTE>25 T/Ozone season; generate at least 25 MW	5/31/04 - system wide average-0.25 or 65% reduction from 1990	Statewide	ozone season	CEM	336.1801
			Fossil fired EGU PTE>25 T/Ozone season; generate < 25MW &>250mmBtu/hr	Table 81	Statewide	ozone season	Stack test or CEM	
			Fossil fired boiler; PTE >25 T/ozone season; >250 mmBtu/hr	Table 81	Statewide	ozone season	Stack test or CEM	
			Table 81 - ozone control period average	NG - 0.2;DO-0.3;RO, coal - 0.4;other gas - 0.25	Statewide	ozone season		

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
			IC engines	NG - 14 g/bhp-h; Diesel-10 g/bhp-h	Statewide	ozone season		
			Cement kilns	LNB or mid-kiln or 25% red from 1995	Statewide	ozone season		
			Gas turbines	75 ppm @15% oxygen	Statewide	ozone season		
		Budget Training Program	EGU & large affected units -fine grid		Fine grid	ozone season		336.1802
		Allowance allocation	EGU	29,038 T in 2004-06; 28,150 T - later yrs	Fine grid	ozone season		336.181
			Large affected units	2,209 T	Fine grid	ozone season		
		New source set aside	EGU/large affected units	EGU - 0.15; Large - 0.17	Fine grid	ozone season		336.1811
		Compliance supp pool	Only for 2004-05	No more than 9,907 T	Fine grid	ozone season		336.1816
		Cement kilns	Long dry -12 TPH; Long wet - 10TPH; Preheater-16TPH	LNB or mid-kiln or long wet - 6.0 lbs/T; long dry - 5.1 lbs/T	Fine grid	ozone season	Annual stack test or CEM	
			Precalciner & PH/PC-22 TPH	Preheater - 3.8 Lb/T; PH/PC-2.8 lb/T or 30%red	Fine grid	ozone season		
			WEB SITE	www.deq.state.mi.us/documents/deq-aqd-rules-apc-part8.doc				
MN		Class A waste combustor	Mass burn waterwall&rotary waterwall;RDF;FBC	205ppmv;250;180	Statewide			7011.1228
	07/01/99	Existing nitric acid units	any production unit	40lb/T of 100% nitric acid	Statewide			7011.1705
			WEB SITE	www.revisor.leg.state.mn.us/arule/7011/1228.html				

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
OH		Budget Training Program			Statewide			3745-14
	04/30/04	Cement kilns	Long dry -12 TPH; Long wet - 10TPH;Preheater-16TPH	LNB or mid-kiln firing or similar controls	Statewide	ozone season	Annual stack test or CEM	3745-14-11
			Precalciner & PH/PC-22 TPH		Statewide			
	02/15/72	Stationary sources	Gas fired boilers at least 250 mmBtu/hr	0.2	Statewide	Annual		3745-23-06
			Oil-fired boilers at least 250 mm Btu/hr	0.3	Statewide	Annual		
			Coal fired boilers at least 250 mm Btu/hr	0.9	Statewide	Annual		
			Nitric acid plants	5.5 lb/ton of 100% acid	Statewide	Annual		
	07/31/97	Stationary sources	Emit at least 25 TPY - any yr since 1992	Yearly emission statements; control devices	Butler;Clermont, Hamilton, Warren Cos.			3745-24
			WEB SITE	www.epa.state.oh.us/dapc/regs				
LA	05/01/05	NOx Controls	EGU boilers - at least 80 mmBtu/hr	Coal-0.21;No.6 oil-0.18; all others-0.10	Baton Rouge NA area and Region of Influence(9 Parishes)	30 day rolling average or TPD cap-ozone season	>250mmBtu/hr-CEM;compliance test;<250mmBtu/hr-totalizing fuel meter;compliance test	Title 33,Part III;Chapter 22
			Industrial boilers - at least 80 mmBtu/hr	0.1	Same as above	Same as above	Same as above	
			Ammonia Reformers - at least 80 mmBtu/hr	0.23	Same as above	Same as above	Same as above	

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
			Other process heaters/furnaces at least 80 mmBtu/hr	0.08	Same as above	Same as above	Same as above	
			Gas turbines -at least 10 MW	peaking, oil-0.3;peaking, gas-0.20;all others-0.16	Same as above	Same as above	<30MW-compliance test;totalizing meter;>30MW-CEM;compliance test	
			IC engines-lean burn at least 1,500 HP	4 g/hp-hr	Region of influence	Same as above	Compliance test;totalizing meter	
			IC engines-lean burn at least 320 HP	4 g/hp-hr	Baton Rouge NA area	Same as above		
			IC engines - rich burn at least 300 HP	2g/hp-hr	Baton Rouge NA area and Region of Influence(9 Parishes)	Same as above		
			WEB SITE	www.deq.state.la.us/planning/regs/title33/33v03.pdf				

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
NM	11/30/95	Coal burning equipment	Greater than 25 MW or 250 mmBtu/hr	New(construction commenced after 8/17/71)-0.45;operating before 12/31/63-0.85;began operating 12/31/63-8/17/71-0.65;construction began prior to and operations began after 8/17/71-0.7	Statewide		CEM	Title 20;Chapter 2;Part 32
	04/30/92		System wide	<335,000 lb/day	Statewide			
	11/30/95	Gas burning equipment	Greater than 1,000,000 millionBTU/Yr/unit	Construction began after 2/17/72-0.2;all others-0.3	Statewide			Part 33
	11/30/95	Oil burning equipment	Greater than 1,000,000 millionBTU/Yr/unit	0.3	Statewide			Part 34
	11/30/95	MWC		100 ppmv -nitrogen dioxide	Statewide	24 hr avg	CEM	Part 62
			WEB SITE	www.nmenv.state.nm.us/aqb/aqb_regs.html				
OK		Fossil fuel burning equip	At least 50 mmBtu/hr;installed after 2/14/72 or GT installed after 7/1/77	Gas-0.20; liquid-0.3;solid - 0.7. Gas limit does not apply to glass melting furnaces that have BACT installed	Statewide	3-hr avg		Subchapter 252:100-33
			WEB SITE	www.deq.state.ok.us/rules/100.pdf				
TX	09/04/00	IC engines/gas turbines	Portable, emergency or standby	Not exceed 10% of normal operating schedule	Statewide			Chapter 106 - subchapter W

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	06/13/01	IC engines/stat	at least 500 HP -rich burn	2.0 g/hp-hr	Statewide			
			at least 500 HP -lean burn;or dual fuel-manufactured new after 6/18/92	2.0 g/hp-hr;except 5.0 g/hp-hr-reduced speed, 80-100% of full torque	Statewide			
			Lean-burn; or dual fuel-manufactured 9/23/82-6/18/92	5.0 g/hp-hr	Statewide			
		<825 HP	Lean-burn - 4 cycle; or dual fuel-manufactured prior to 6/18/92 or	5.0 g/hp-hr except 8.0 g/hp-hr at reduced speed, 80-100% of full torque	Statewide			
			Manufactured before 9/23/82		Statewide			
			Lean burn- 2cycle-manu before 6/18/92 and <825HPor	8.0 g/hp-hr	Statewide			
			Manufactured before 9/23/82		Statewide			
			Compression - liquid fired	11.0 g/hp-hr	Statewide			
		GT at least 500 HP	Gas fired	3.0 g/hp-hr	Statewide			
	10/18/01	EGUs in NA areas	Exemptions-new units after 11/15/92;annual heat inut<2.2x10 to 11th		Beaumont;Houston;Dallas		CEM or PEMS	Chap.117;sub.B; Div.1;117.103
			or GT and IC engines - solely power other engines or GT	during startup or operate <850hrs/yr on rolling 12 mo avg				
	11/15/99-Beau/PAr	RACT	Utility boiler or auxiliary steam boiler-gas or gas/waste oil	0.26-rolling 24hr avg&0.20-30 day rolling avg				117.105
	03/31/01-Dal/FW		Coal fired-tangential;wall	0.38; 0.43- rolling 24 hr avg				

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	11/15/99-Hou/Gal		Oil-fired	0.3				
			GT at least 30 MW & MWhr > 2,500 hrs x MW rating	42 ppmv-gas; 65 ppmv-oil		Hourly		
			GT- peaking - < 2,500 hrs x MW rating	0.2=gas; 0.3-oil;		Hourly		
		Attain Demo	Utility boiler	0.1	Beaumont/Port Arthur	Daily	CEM or PEMS	117.106
			Utility boiler	large DFW system-0.033; small - 0.06	Dallas/Fort Worth	Daily		
			Utility boiler, auxiliary steam generator, gas turbine	Lower of permit limits or UB-0.03; coal or gas fired-wall-0.05	Houston/Galveston	Daily; 30-day average		
				Tang-0.045; Aux-0.03; GT- 0.032				
		Alt system wide	Coal fired-EGU; GT subject to RACT	Option - systemwide emission limit; excludes GT-peaking;	Statewide	Gas-rolling 24 hr & 30 days		117.107
				auxiliary steam boilers. Coal and oil fired-separate		Coal, oil - rolling 24 hr		
				systemwide averages				
		System Cap	Electric generating facility -option to comply with Attain Demo		Beaumont/Port Arthur	Daily; 30 days	CEM	117.108
					Dallas/Fort Worth	Daily; 30 days	CEM	
			mandatory - Houston/Galveston		Houston/Galveston	Daily; 30 days	CEM	Chapter 117; Section 210

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	01/17/03	Attain Demo	Boiler	Gas-0.10	Beau/Port Arthur	rolling 30-day avg or block 1 hr	CEM or PEMS	Chapter 117;Section 206
	01/17/03		Process Heater	Gas-0.08	Same as above	Same as above	same as above	
	01/17/03		Boiler or Process Heater	30 ppmvd@3% - O2	Dallas/Fort Worth	Same as above	same as above	
	01/17/03		Stationary IC engines - lean burn at least 300 HP	2.0 g/hp-hr	Same as above	Same as above	same as above	
	01/17/03		Boiler at least 100 mmBtu/hr	Gas-0.02	Houston/Galveston	Same as above	Same as above	
	01/17/03		Boiler - 40- 100 mmBtu/hr	Gas-0.03	Same as above	Same as above	same as above	
	01/17/03		Boiler<40mmBtu/hr	Gas-0.036 or 30ppmvd@3% O2	Same as above	Same as above	same as above	
	01/17/03		FCCUs(includes CO Boilers, CO furnaces,and catalyst regenerator	40 ppmvd @0%-O2 or 90% reduction- 6-8/97	Same as above	Same as above	same as above	
	01/17/03		Boilers, industrial furnaces at least 100 mmBtu/hr	0.015	Same as above	Same as above	same as above	
	01/17/03		Boilers, industrial furnaces less than 100 mmBtu/hr	0.030 or 80% red from 6-8/97	Same as above	Same as above	Same as above	
	01/17/03		Coke-fired boiler	0.057	Same as above	Same as above	same as above	
	01/17/03		Wood fuel-fired boiler	0.06	Same as above	Same as above	same as above	
	01/17/03		Rice hull-fired boiler	0.089	Same as above	Same as above	same as above	
	01/17/03		Liquid-fired boiler	2.0 lb/1000 gallons	Same as above	Same as above	same as above	

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	01/17/03		Process heaters at least 40 mmBtu/hr	0.025	Same as above	Same as above	same as above	
	01/17/03		Process Heaters < 40 mmBtu/hr	0.036 or 30 ppmvd @ 3% O2	Same as above	Same as above	same as above	
	01/17/03		Pyrolysis reactors	0.036	Same as above	Same as above	same as above	
	01/17/03		IC Engines - Rich burn	0.50 g/hp-hr;0.6-landfill gas	Same as above	Same as above	same as above	
	01/17/03		IC engines- lean burn	0.50 g/hp-hr;0.6-landfill gas	Same as above	Same as above	same as above	
	01/17/03		IC engines - dual fuel	Startup before 12/31/00-5.83; after-0.53	Same as above	Same as above		
	01/17/03		IC engines-diesel excluding dual fuel	Not mod, reconst, or relocated after 10/1/01-11.0	Same as above	Same as above		
	01/17/03		Same as above <11 HP	mod, reconst, or relocated after 10/1/01 and before 10/1/04- 7.0	Same as above	Same as above		
	01/17/03		Same as above	mod, reconst, or relocated after 10/1/04- 5.0	Same as above	Same as above		
	01/17/03		IC engines - diesel 11-25HP	mod, reconst, or relocated after 10/1/01 and before 10/1/04- 6.3	Same as above	Same as above		
	01/17/03		Same as above	mod, reconst, or relocated after 10/1/04- 5.0	Same as above	Same as above		
	01/17/03		IC engines-diesel-25-50 HP	mod, reconst, or relocated after 10/1/01 and before 10/1/03- 6.3	Same as above	Same as above		

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	01/17/03		Same as above	mod, reconst, or relocated after 10/1/03- 5.0	Same as above	Same as above		
	01/17/03		IC engines-diesel- 50-100 HP	mod, reconst, or relocated after 10/1/01 and before 10/1/03- 6.9	Same as above	Same as above		
	01/17/03		Same as above	mod, reconst, or relocated after 10/1/03- 5.0	Same as above	Same as above		
	01/17/03		Same as above	mod, reconst, or relocated after 10/1/07- 3.3	Same as above	Same as above		
	01/17/03		IC engines- diesel-100-175 HP	mod, reconst, or relocated after 10/1/01 and before 10/1/02- 6.9	Same as above	Same as above		
	01/17/03		Same as above	mod, reconst, or relocated after 10/1/02 and before 10/1/06- 4.5	Same as above	Same as above		
	01/17/03		Same as above	mod, reconst, or relocated after 10/1/06- 2.8	Same as above	Same as above		
	01/17/03		IC Engines - Diesel 175-300 HP	mod, reconst, or relocated after 10/1/01 and before 10/1/02- 6.9	Same as above	Same as above		
	01/17/03			mod, reconst, or relocated after 10/1/02 and before 10/1/05- 4.5	Same as above	Same as above		
	01/17/03			mod, reconst, or relocated after 10/1/05- 2.8	Same as above	Same as above		

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	01/17/03		IC Engines-Diesel 300-600HP	mod, reconst, or relocated after 10/1/01 and before 10/1/05-4.5	Same as above	Same as above		
	01/17/03			mod, reconst, or relocated after 10/1/05- 2.8	Same as above	Same as above		
	01/17/03		IC Engines-diesel - 600-750HP	mod, reconst, or relocated after 10/1/01 and before 10/1/05-4.5	Same as above	Same as above		
	01/17/03			mod, reconst, or relocated after 10/1/05- 2.8	Same as above	Same as above		
	01/17/03		IC engines -diesel >750 HP	mod, reconst, or relocated after 10/1/01 and before 10/1/05-6.9	Same as above	Same as above		
	01/17/03			mod, reconst, or relocated after 10/1/05- 4.5	Same as above	Same as above		
	01/17/03		Stationary GT at least 10 MW	0.32	Same as above	Same as above		
	01/17/03		1-10 MW	0.15	Same as above	Same as above		
	01/17/03		<1.0 MW	0.26	Same as above	Same as above		
	01/17/03		Pulping liquor recovery furnaces	0.050 or 1.08 lb/ADTP	Same as above	Same as above		
	01/17/03		Lime kiln	0.66 lb/T	Same as above	Same as above		
	01/17/03		LWA kilns	0.087	Same as above	Same as above		
	01/17/03		Metallurgical heat treat furnaces	0.087	Same as above	Same as above		

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	01/17/03		Metallurgical reheat furnaces	0.062	Same as above	Same as above		
	01/17/03		Incinerators	0.030 or 80% red from 6-8/97 daily emissions	Same as above	Same as above		
	1/17/2003	Alt system wide	For attainment demo	lowest of 117.206;actual 9/10/93 emission;permit limit	Beaumont/Port Arthur	Same as above		Chap 117;Sec207
			For attainment demo	lowest of 117.206;actual 9/10/97 emissions;permit limit	Dallas/Fort Worth	Same as above		
	06/09/93	Adipic acid	Production unit	2.5 lbs/T of acid produced	Beau/PA; Houston/Gal	24 hr rolling avg	CEM	117.305
	06/09/93	Nitric acid	Absorber of any production unit	2.0 lbs/T of 100% acid produced	Beau/PA; Houston/Gal	24 hr rolling avg	CEM	117.405
	06/09/93	Nitric acid	Production unit	600 ppmv	Rest of Texas			117.455
	01/17/03	Small combustion	Water Heaters, small boilers, process heaters		Statewide			117.465
			Type O(<75,000Btu/hr)manufactured between 7/1/02-12/31/04	40 ng/J or 55 ppmv @3% oxygen	Statewide			
			Type O manufactured after 1/1/05	10 ng/J or 15 ppmv@3% oxygen	Statewide			
			Type 1(75,000-400,000 Btu/hr) manu after 7/1/02	40 ng/J or 55 ppmv @3% oxygen	Statewide			
			Type 2(400,000-2.0 mil Btu/hr) manu after 7/1/02	30 ppmv@3% oxygen or 0.037	Statewide			

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	01/17/03	Minor sources	Boilers, process heaters, IC engines, gas turbines	Boilers, PH - gas - 0.036 or 30 ppmv@3% oxygen	Houston/Galveston			117.475
			Exempt-boilers, PH-< 2.0 million Btu/hr; IC engines<50 HP	Boilers, PH - liquid - 0.072 or 60 ppmv@3% oxygen	Same as above			
			or used exclusively-emergency; GT <1MW that began	IC engines -0.50g.hp-hr; landfill gas - 0.60 g/hp-hr	Same as above			
			operation before 10/1/01	IC engines dual fuel - 5.83 g/hp-hr	Same as above			
			Operating before 10/1/01 - not been modified, reconst or relocated	IC engines diesel - 11.0 g/hp-hr	Same as above			
			Begin operating after 10/1/01 - 50-100 HP	Until 10/1/03-6.9; 10/1/03-10/1/07-5.0; after 10/1/07-3.3	Same as above			
			100-175HP - diesel	Until 10/1/02-6.9; 10/1/02-10/1/06-4.5; after 10/1/06-2.8	Same as above			
			175-300 HP - diesel	Until 10/1/02-6.9; 10/1/02-10/1/06-4.5; after 10/1/06-2.8	Same as above			
			300-600 HP -diesel	Until 10/1/05-4.5; after 10/1/05 - 2.8	Same as above			
			600-750 HP - diesel	Until 10/1/05-4.5; after 10/1/05 - 2.8	Same as above			
			At least 750 HP - diesel	Until 10/1/05 - 6.9; after 10/1/05 - 4.5	Same as above			
			Gas turbines inc. duct burners	0.15	Same as above			

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	03/27/03	Cement kilns	Wet kilns	6.0 lb/T of clinker	Bexar, Hays, Comal and McLennan Cos	30 day rolling avg	CEM or PEMS	Chap.117; Sec.265
			Wet kilns	4.0 lb/T	Ellis Co.	Same as above	same as above	
			Long dry kilns	5.1 lb/T	Bexar, Hays, Comal and McLennan Cos	Same as above	same as above	
			Preheater kilns	3.8 lb/T	Same as above	Same as above	same as above	
			Preheater/precalciner or precalciner kilns	2.8 lb/T	Same as above	Same as above	same as above	
	01/17/03	Regional NOx Controls	electric power boilers	Gas-fired- 0.14	East and Central Texas	Calendar yr avg	same as above	Chap.117; Sec 135
				Coal -fired 0.165	Same as above	Same as above	same as above	
			Stationary GT(inc. duct burners used in exhaust ducts at least 10 MW	0.14 for units subject to Tx Utilities Code 39.264	Same as above	Same as above	same as above	
				0.15 or 42 ppmvd - not subject to 39.264	Same as above	Same as above	same as above	
				0.15 or 42 ppmvd - TUC 39.264(i)	Same as above	Same as above	same as above	
			WEB SITE	www.tnrcc.state.tx.us/oprd/rules/pdflib/117b.pdf				
IO		HMIWI	All sizes	250 ppm				
			WEB SITE	www.legis.state.ia.us/Rules/Current/iac/567iac				
KS	01/01/71	Fossil fuel burning equip	At least 250 mmBtu/hr	Gas, oil-0.3; Coal - 0.9	Statewide			28-19-30

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
			WEB SITE	www.kdhe.state.ks.us/pdf/regs/28-19.pdf				
MO	05/01/02	PTE at least 100 TPY	Boilers at least 100 mm Btu/hr - Gas	Tang, Wall - 0.2; cyclone-0.5	St Louis NA area		Stack test every 3 years or CEM	10 CSR 10-5.510
			Boilers at least 100 mmBtu/hr - Resid, Distillate oil	Tang, Wall - 0.3			Same as above	
			Boilers at least 100 mmBtu/hr - Coal	Wet bottom cyc-0.86; Dry bottom - tang-0.45, Wall, stoker-0.5			Same as above	
			Boiler or incinerator - 50-100 mmBtu/hr	Annual tune up			Same as above	
			Gas turbine	Gas-75 ppm@15% oxygen; Dist.oil or diesel-110 ppm			Same as above	
			IC engine>20 mmBtu/hr -burning gaseous fuels	Rich burn - 500-1,000HP-9.5 g/hp-hr;>1,000 HP- 2.5			Same as above	
				Lean burn - 500-1,000 HP - 10.0;>1,000 HP-3.0			Same as above	
			IC engine>20 mmBtu/hr -burning diesel or distillate	500-1,800HP-8.5; >1,800 HP-2.5			Same as above	
			IC engine>20 mmBtu/hr-burning dual fuel	500-2,000HP-6.0; >2,000 HP-2.5			Same as above	
			Regenerative container glass melting furnace	5.5 lb/T			Same as above	
			Cement kiln	Good combustion practice			Same as above	

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
			WEB SITE	www.sos.mo.gov/adrules/csr/current				
NE	12/15/1998	Nitric acid production	As end product or for use in producing other products	More stringent of 5.5 lb/T of 100% acid or 400 ppm				Title 129, Chapter 25
	07/01/01	Acid Rain		40 CFR Parts 72, 76		40CFR part 75		Title 129, Chapter 26
			WEB SITE	www.deq.state.ne.us/RuleandR.nsf				
CO	06/30/94	Acid Rain		40 CFR Parts 72, 76	Statewide	40CFR part 75		Reg. No. 18
			WEB SITE	www.cdphe.state.co.us/op/regs/airregs				
ND	06/01/01	Acid rain		40 CFR Parts 72, 76	Statewide	40 CFR; part 75		Chap.33-15-21
			WEB SITE	www.state.nd.us/lr/information/acdata				
SD	01/05/95	Acid Rain		40 CFR Parts 72, 76	Statewide			Chap 74:36:16
			WEB SITE	legis.state.sd.us/rules/rules				
UT		RACT	Major sources		Davis, Salt Lake cos;NA areas			R307-325-2
	07/01/98	Acid Rain		40 CFR Part 72	Statewide			R307-417
	08/18/97	Offset requirements	Major sources - PTE - at least 100 TPY	Offset the proposed increase in Nox by a ratio of 1.15:1	Davis, Salt Lake cos			R307-420
			Significant source category - under Sec 111,112	Same as above	Same as above			
			WEB SITE	www.airquality.utah.gov/ADMIN/Rules/RULES-8-5-03.pdf				
WY		Emission standards for NOx	Gas-fired fuel equip	New -0.2; existing - 0.23	Statewide			Section 3

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
		NA - IC engines < 200 mmBtu/hr	New oil fired fuel burning equip	At least 1 mmBtu/hr-0.30; <1 mmBtu/hr-0.60	Statewide			
			Existing oil fired fuel equip	At least 250 mmBtu/hr-0.46;<250mmBtu/hr-0.60	Statewide			
			New nitric acid plants	3 lb/T of acid produced	Statewide	2-hr avg		
			Solid fossil fuel fired burning equip	New-0.70; Existing-0.75	Statewide			
		Existing nitric acid units		5.5 lb/T of acid produced	Statewide	2-hr avg		
		HMIWI	All sizes	250 ppmv	Statewide			
			WEB SITE	deg.state.wy.us/aqd/downloads				
AZ	9/26/1990	Fossil fuel burning equip and stem generators	>73 MW	Gas-0.2;Liquid-0.3;Solid-0.7	Statewide	3 hr avg		R-18-2-703
	09/26/90	Existing nitric acid plants		3.0 lbs/T of acid produced	Statewide			R-18-2-706
	08/10/99	HMIWI		250 ppmv	Statewide			R-18-2-732
			WEB SITE	www.sosaz.com/public_services/Title_18/18-02.htm				
Maricopa Co; AZ	07/02/03	Power Plants - commence construction prior to 5/10/96	At least 100 mmBtu/hr(29 MW);gas turbines at least 2.9 MW - fossil fuel	Gaseous-155 ppmv; liquid-230 ppmv	Maricopa Co(Phoenix)	30 day avg-CEM	>250mmBtu/hr-CEMS	Rule 322
	07/02/03	ICI Boilers	steam gen & process heaters > 10 mmBtu/hr; gas turbines at least 2.9 MW	gaseous fuel - 155 ppm; liquid-230 ppm			annual tune-up; every 6 mos->100 mmBtu/hr	Rule 323

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
		IC engines > 250 HP	Compression ignition - 250-399 HP; at least 400 HP	770 ppmvd or 10 g/bhp-hr or turbocharger with aftercooler; 550 ppmvd or 7.2 g/bhp-hr or turbocharger with aftercooler				Rule 324
			Spark ignition >250 HP	280 ppmvd or 4.0 g/bhp-hr or 3- way catalyst				
		New engines(commence construction after 10/22/03)	Lean burn	110 ppmvd or 1.5 g/bhp-hr				
			Rich burn	20 ppmvd or 0.3 g/bhp-hr				
			Compression	530 ppmvd or 6.9 g/bhp-hr				
			WEB SITE	www.maricopa.gov/envsvc/airqual.asp				
	Some CA	District Regs	All District regs can be found at		www.arb.ca.gov/drdb/drdb.htm			
BA AQ MD		Heat Transfer Operations	Existing-at least 1.75 billion Btu/hr	Gas fuel - 175 ppm; Liquid - 300 ppm	Districtwide			
			New/modified - at least 250 million Btu/hr	Gas fuel- 125 ppm; liquid - 225 ppm	Districtwide			Regulation 9; Rule 3
	1/1/84 - manufacture	Gas fired residential furnaces	<175,000 Btu/hr	40 nanograms/joule	Districtwide			Regulation 9; Rule 4
	7/1/92 - manufacture	Gas fired water heaters	< 75,000 Btu/hr	40 nanograms/joule	Districtwide			Regulation 9; Rule 6

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	1/1/96	ICI boilers; steam generators,PH	Gas units - at least 10 mmBtu/h;others - at least 1 mmbtu/h (exempt<90,000 therms-annual)	Gas fuel - 30 ppm; Liquid - 40 ppm	Districtwide			Regulation 9; Rule 7
	1/1/97	IC engines	Fossil fuel fired units at least 250 BHP (exempt <1,000 BHP;<200 hrs/12 mos>1,000HP)	Rich - 56 ppm; Lean - 140 ppm	Districtwide			Regulation 9; Rule 8
			Waste-derived fuel	Rich - 210 ppm; Lean - 140 ppm	Districtwide			
	1/1/97	Gas turbines	0.3 - 10.0 MW	42 ppmv; refinery fuel gas - 55 ppmv	Districtwide			Regulation 9; Rule 9
			At least 10 MW; without SCR	15 ppmv	Districtwide			
			At least 10 MW; with SCR	9 ppmv	Districtwide			
			At least 4.0 MW - <877 hrs/yr operating	Gas - 42 ppmv; other fuel - 65 ppmv	Districtwide			
	1/1/00		Alternate - 10-30 MW - without SCR;	Gas -15 ppmv; non-gaseous -42 ppmv	Districtwide			
	7/1/97	Boilers, steam generators, process heaters	Gas units - at least 10 mmBtu/h;others - at least 1 mmbtu/h (exempt<90,000 therms/12 mos)	Refinery wide, excluding CO boilers - 0.033 lb/mmBtu	Districtwide	Daily average		Regulation 9 ; Rule 10
	7/1/97		CO boilers	150 ppm or 50% control	Districtwide	Daily average	CEM - NOx;CO; oxygen	
	12/31/01	EGU boilers	> or = 1.75 billion Btu/hr	Gas - 10 ppmv; other fuel - 25 ppmv	Districtwide		CEM - NOx;CO; oxygen	Regulation 9; Rule 11
	12/31/04		1.5-1.75 billion Btu/hr	Gas - 25ppmv; other fuel - 110 ppmv	Districtwide		Same as above	

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	12/31/04		250 million - 1.5 billion Btu/hr	Gas - 30 ppmv; other fuel - 110 ppmv	Districtwide		Same as above	
	05/31/95		Systemwide	0.28 lb/mmBtu	Districtwide	30 day	Same as above	
			Systemwide-in lieu of other standards	2002-0.057;2004-0.037;2005 -0.018	Districtwide	Hourly	Same as above	
	1/1/01	Glass melting furnaces		5.5 lbs/T	Districtwide	3 hrs	Annual stack tests	Regulation 9;Rule12
			WEB SITE	www.baaqmd.gov/rules				
SD CA PC D	09/21/93	Standard for nitrogen oxides	Natural gas and distillate oil	Low HRR-0.10; High HRR-0.20	Districtwide			Rule 260.44b
			Residual oil	Low HRR-0.30; High HRR-0.40	Districtwide			
			Coal	Mass feed stoker-0.5;spreader stoker-0.60				
				Pulverized-0.70; lignite-0.60				
				Lignite mined in SD, ND or MT-0.80				
			Duct burner/cc	NG and DO-0.20;Resid oil-0.40				
	09/20/94	Fuel-Burning Equip	Non-vehicular fuel burning equip	Gaseous fuel - 125 ppm;liquid or solid-225ppm				Rule 68
		EGU - replacement and new		LAER or BACT required; also aggregate annual limits for EGU - Starting 2001- 800 TPY;Starting 2005-650 TPY	Encina,South Bay, Silvergate Power plants			Rule 69

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	09/27/94	Ind/Com boilers;process heaters;steam generators > 5mmBtu/hr	less than or =50 mmBtu/hr and annual heat input of at least 220,000 therms	Gaseous fuel - 30 ppm;liquid-40 ppm @3% oxygen			Stack gas - oxygen	Rule 69.2
			> 50 mmBtu/hr and annual capacity at least 10 %	Same as above			Stack gas - oxygen	
			less than or =50 mmBtu/hr and annual heat input of less than 220,000 therms	Stack gas oxygen content-<or=3% or annual tune up or meet above emission limit			Stack gas - oxygen	
			> 50 mmBtu/hr and annual capacity less than 10 %	same as above			Stack gas - oxygen	
	12/16/1998	Stationary Gas Turbines -RACT	At least 0.3 MW	Gaseous fuel- 42 ppmv -15% oxygen;liquid-65 ppmv			continuous operational monitors such as exhaust gas flow rate; gas temp; ammonia injection rate or CEMS	Rule 69.3
	12/16/98	Stationary Gas turbines - BARCT	Existing at least 1.0 MW or new at least 0.3 MW	0.3-2.9 MW(new) &1-2.9 MW(existing)- Gas-42;liquid-65			Same as above	Rule 69.3.1
		E= unit thermal efficiency	>2.9 and <10 MW	Gas-25xE/25;liquid-65				

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
			at least 10 MW w/o post combustion control	Gas-15xE/25;liquid-42xE/25				
			at least 10 MW with post-combustion control	Gas-9xE/25;liquid-25xE/25				
	7/30/03	Stationary IC Engines	At least 50 HP located at stationary source with PTE at least 50 TPY	Rich burn - 90% reduction or 0.9 g/hp-hr			Monthly-operating parameters;	Rule 69.4
				Lean burn - 80% reduction or 2.3			Continuous operating parameters monitor->1,000HP-installed after 7/30/03	
			Waste derived gaseous fuel; Diesel	80% or 2.3; 9.0			CEM->5,000 HP - installed after 7/30/03	
	11/15/2000	Stationary IC engines - BARCT	>50 HP	Rich burn -96% or 25 ppmv; 50 -waste derived gaseous fuel			Operating parameters; fuel meter	Rule 69.4.1
				Lean burn - 90% or 65				
				Diesel or kerosene-90% or 9.0;				
	1/01/99	Natural gas fired water heaters	< 75,000 Btu/hr; and not used to heat swimming pools	Can't sell any that emits more than 93 lbs/ billion Btu				Rule 69.5

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	01/1/99	Natural gas fired central furnaces	< 175,000 Btu/hr	Can't sell any that emits more than 93 lbs/ billion Btu				Rule 69.6
			WEB SITE	www.sdapcd.co.sandiego.ca.us/rules/rules				
SM AQ MD	07/01/95	IC engines at major NOx sources > 50 BHP	RACT	Rich burn -50 ppmvd @15% oxygen;lean burn-125;compression-700			shorter time period-8,760 operating hrs or 5 yrs	Rule 412
	05/31/97		BARCT	Rich-25;lean-65;compression-80				
				Or rich,lean, compression- 90% control				
	05/31/97	ICI Boilers, steam generators, process heaters at least 5 mmBtu/hr	BARCT	Gaseous fuel -30 ppmvd @3% oxygen;nongaseous fuel - 40;			At least 25 mmBtu/hr-every yr; 5-25 mmBtu/hr-every 2 yrs	Rule 411
				Biomass fuels-70;emergency stndbynongaseous-150				
	05/31/95	Gas turbines at least 0.3 MW or 3 mmBtu/hr	RACT	gaseous fuel- 42 ppmvd -15% oxygen;liquid-65			At least 10 MW; operated for more than 4,000 hrs/yr	Rule 413
	05/31/97		BARCT -gaseous fuel	<2.9 MW; or >2.9 MW operating <877 hrs/yr-42			others - annual stack tests	

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
				2.9-10 MW -35				
				>10 MW without SCR-15;with SCR -9				
			BARCT-liquid fuel	<10 MW or at least 2.9 MW operating < 877 hrs/yr-65				
				At least 10 MW;operated at least 877 hr/yr; without SCR - 42;with SCR-25				
	03/01/97	Natural gas-fired water heaters	< 75,000 Btu/hr	93 lbs/billion Btu				Rule 414
			mobile home heaters	116 lbs/billion Btu				
			WEB SITE	www.arb.ca.gov/drdb/sac/cur.htm				
SJV UA PC D	9/30/1988	Existing steam generators - enhanced oil recovery	At least 35 mmBtu/hr operated by small producers	Oil-0.35; natural gas-0.14				Rule 4405
			At least 35 mmBtu/hr operated by other producers	oil-0.20; natural gas-0.14				
			Small units(15-35 mm Btu/hr)	Oil-0.38; natural gas-0.18				
	04/25/02	Stationary gas turbines at least 0.3 MW or at least 3 million Btu/hr	< 2.0 MW Solar Saturn - centrifugal compressor	Gas, liquid - 50 ppmvd @15% O2				Rule 4703
	4/30/04		<10 MW, if DLN available on 4/30/03	Gas -25; liquid - 65				
	4/30/03		< 10 MW; DLN not available -4/30/03	Gas- 35; liquid-65				

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	4/30/04;4/30/05		> 10MW; all combined cycle; simple cycle > 877 hrs/yr	Gas - 5;liquid-25				
	4/30/03		> 10MW; simple cycle < 877 hrs/yr	Gas- 25;liquid-42				
	25% of engines-6/1/05;62.5%-6/1/06	IC engines-Phase 2 ->50 HP	Rich burn	Waste gas - 50 ppmvd @15% O2;cyclic loaded-50;others-25 or 96% reduction	Districtwide		CEM- NOx, CO and O2 or parametric monitors	Rule 4702
	100%-6/1/07		Lean-burn	2 stroke, gas fuel,< 100 HP- 75 or 85%;others- 65 or 90%	Districtwide		Same as above	
	3/14/1995	Glass Melting Furnaces Tier 1	Container glass or fiberglass	5.5 lb/t of glass pulled	Districtwide			Rule 4354
			Flat glass	32 lb/T -(0.2 x cap factor)	Districtwide			
	Next furnace rebuilt after 1/1/99 and not later than 3/31/08	Tier 2	Container glass or fiberglass	4.0 lb/T	Districtwide	24-hr avg	CEM	
			Flat glass	9.2; 7.0 lb/T	Districtwide	24 hr avg;rolling 30-day	CEM	
	5/31/1995	Solid Fuel fired boilers, steam generators, and process heaters- part of major source- 50 TPY	Municipal SW; Biomass; all others	200 ppmv@12% CO2;0.35;0.20	Districtwide	24-hr	Annual testing or CEM	Rule 4352

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	09/27/03	Lime Kilns	Gaseous fuel;dist oil;resid oil	0.10;0.12;0.20	Districtwide		CEM or parameter monitoring; annual stack tests	Rule 4313
	25% by 6/1/05; 62.5% by 6/1/06;100 % by 6/1/07	Boilers,steam generators, process heaters-phase 3-no solid fuel fired units	> 5-20 mmBtu/hr;except categ below	Gas fuel- 15 ppmvd@3% O2 or 0.018;liq-40 ppmvd or 0.052	Districtwide		CEM or parameter monitoring; fuel flow meter; annual stack tests	Rule 4306
			>20 mmBtu/hr;except below categories	Gas-9 ppmvd or 0.011;liq-40ppmvd or 0.052	Districtwide		Same as above	
			Oilfield steam generators	Gas- 15 ppmvd or 0.018;liq-40ppmvd or 0.052	Districtwide		Same as above	
			Refinery units - 5-65 mmBtu/hr	Gas-30ppmvd or 0.036;liquid-40 ppmvd or 0.052	Districtwide		Same as above	
			Refinery units - 65-110 mmBtu/hr	Gas -25 ppmvd or 0.031;liquid-40 ppmvd or 0.052	Districtwide		Same as above	
			Refinery units - >110 mmBtu/hr	Gas-5ppmvd or 0.0062;liq-40 ppmvd or 0.052	Districtwide		Same as above	
			Load following units	Gas-15 ppmvd or 0.018;liq-40 ppmvd or 0.052	Districtwide		Same as above	
			Units limited by PTO to annual heat input-9-30 billion Btu/yr	Gas-30ppmvd or 0.036;liquid-40 ppmvd or 0.052	Districtwide		Same as above	

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
			Each burner <5mmBtu/hr but total for all burners>5mmBtu/hr	Gas-30ppmvd or 0.036;liquid-40 ppmvd or 0.052	Districtwide		Same as above	
	Manufactured after 12/17/93	Residential Water Heaters	NG heaters < 75,000 Btu/hr	40 nanograms/Joule	Districtwide			Rule 4902
		Fuel Burning Equip	Burn fuel for primary purpose of producing heat or power by indirect heat transfer	<140 lbs/hr	Districtwide			Rule 4301
	12/20/2003	Flares- Owned&operated by major sources	Without steam-assist	<10mmBtu/h-0.0952;10-100 mmBtu/h-0.1330;>100mmBtu/h-0.524	Districtwide		Annual stack test	Rule 4311
			With steam assist	0.068	Districtwide		Annual stack test	
			WEB SITE	www.arb.ca.gov/drdb/sju/curhtml				
SC AQ MD	7/1/88- 12/31/92	Refineries	Boiler/Process Heater - refinery wide	0.14 -gas;0.308-liquid fuel	Districtwide			Rule 1109
	12/31/92- 12/31/95			0.03 -36% of total heat input	Districtwide			
			Each boiler/ph	0.03	Districtwide		CEM	
	01/01/95	IC engines	Exempt - Agricultural uses, emergency standby	90% -initial test, 80% after or 90 ppm	Districtwide			Rule 1110.1
			Lean burn > 50 BHP	80 % - initial test; 70 % after or 150 ppm	Districtwide			
				Combustion mods - 2.0 g/bhp-hr or 150 ppm	Districtwide			

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	12/31/04	IC engines	All stationary >50 HP	Replace w/electric or 36 ppm	Districtwide		CEM - >1,000 BHP; >2mmbhp-hr/yr; stack test every 3 yrs	Rule 1110.2
	12/31/99 - emission limits; 12/31/09 - engine mod		All portable spark ignition > 50 HP	1.5 g/bhp-hr	Districtwide	15 mins		
			Portable compression ignition 50 - 117 HP	10.0 g/bhp-hr or turbocharger and 4 degree ITR	Districtwide			
			Portable compression ignition 117 - 400 HP	7.2 g/bhp-hr or TC and aftercooler and 4 degree ITR	Districtwide			
			Portable compression ignition >400 HP	7.0 g/bhp-hr or same as above	Districtwide			
	04/02/84	NG Central Furnaces	< 175,000 Btu/hr	40 nanogram/joule	Districtwide			Rule 1111
	07/01/86	Cement kilns	Any gray cement kiln	11.6 lbs/T; 6.4 lbs/T	Districtwide	24 cons. Hrs/30 consecutive days		Rule 1112
	12/31/92	Glass furnaces	Flat glass; fiberglass; glass remelt furnace - exempt	4.0 lbs/T	Districtwide		CEM	Rule 1117

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	08/04/89	Gas Turbines	0.3 - 2.9; 2.9-10; 2.9-10- no SCR; >10; >10, no SCR MW	25;9;15;9;12 ppm;adjustment - EFF/25%	Districtwide	15 mins	At least 2.9 MW - CEM; oxygen monitor;At least 25 TPY - every 12 mos; others - every 8,400 hrs	Rule 1134 Exempt- Emergency standby; peaking GT<200 hrs/yr
			>60, no SCR; >60; 2.9 - 10 - minimum 60% sewage digester gas	15;9;25 ppm - same adjustment	Districtwide	15 mins		
	12/31/99	EGU	SoCalEd; LA W&P	0.15 lb/MWh, 13,400lb/d, 1,640 TPY;0.15, 7,400 lb/d,960 TPY	SoCal Gas & LA DWP - can combine to meet - 0.25 lb/MW; 5,360; 2,960 lb/day	SCE by 12/31/93 - install SCR - 480 MW - <0.25 lb/MWH;c an bubble except SCalEd	CEM/RTU	Rule 1135
			Cities of Burbank, Glendale, Pasadena	0.20,390,56 ; 0.20, 390, 35; 0.20, 900, 80	Districtwide		CEM/RTU	LA W&P by 12/31/93 -240 MW - BACT
	01/01/2002	ICI boilers, steam generators,process heaters	At least 10 mmBtu/hr- gaseous fuel	30 ppm or 0.036	Districtwide		CEM -at least 40 mmBtu/hr;a nnual heat input >200x10 to 9th	Rule 1146 - exempt - Boilers/PH-pet. Ref - >40 mm Btu/hr

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
	01/01/02		At least 10 mmBtu/hr - gas and non-gas fuels	30 ppm or 0.036 or weighted avg	Districtwide			
	07/01/02		At least 5-10 mmBtu/hr - gaseous or combination of fuels	Same as above	Districtwide			
	07/01/94	Small ICI boilers, steam generators, process heaters	2-5 mmBtu/hr	30 ppm or 0.037	Districtwide			Rule 1146.1
	12/31/93		Same as above; no more than 18,000 therms/yr	Stack oxygen - no >than 3%; or tune - 2/yr or 30 ppm or 0.037 lb/mmBtu;	Districtwide	15 mins		
	01/1/00	hot water heaters; boilers; process heaters	New units - 0.4-2.0 mmBtu/hr	30 ppm or 0.037	Districtwide			Rule 1146.2
	01/01/01		New units - 0.075 -0.4 mmBtu/hr	40 nanogram/joule or 55 ppm	Districtwide			
	07/01/02		Units manufacture before 1/1/92 - 1-2 mm Btu/hr	30 ppm or 0.037	Districtwide			
	01/1/05		Units manufacture 1992-1999 - 1-2 mm Btu/hr	30 ppm or 0.037	Districtwide			
	01/01/06		Units manufacture prior to 1/1/00; 0.4-1 mmBtu/hr	30 ppm or 0.037	Districtwide			
	12/06/85	Nitric Acid units	Pressure or atmospheric pressure process	450 ppm- 15 minutes; 237 ppm - 60 minutes or 3 lb/T - 60 min	Districtwide			Rule 1159
					Districtwide			
			WEB SITE	www.aqmd.gov/rules/html				

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
VC AP CD	1/1/1997	IC engines at least 50 HP	Rich burn;waste gas	25 ppmvd@15% oxygen or 96% red;50 ppmvd	Districtwide		Annual stack test	Rule 74.9
			Lean burn;waste gas	45 ppmvd or 94%; 125	Districtwide		Annual stack test	
			Diesel	80 or 90%	Districtwide		Annual stack test	
	12/31/00	water heater, boiler,steam generator,or process heater	OFS between 75,000 and 2mmBtu/hr	75,000 - 0.4 mmBtu/h-40 ng/J or 55 ppm	Districtwide		Certification	Rule 74.11.1
	12/31/1999		Offered for sale or installed	0.4-2 mmBtu/h-30 ppm	Districtwide		Certification	
	12/31/1985	NG Residential Water Heaters	Offered for sale or installed	40 ng/J	Districtwide		Certification	Rule 74.11
	07/15/97	EGU> 300 mmBtu/hr		0.10 lb/MW-hr (net)	Districtwide	24 hr rolling avg	CEM	Rule 59
			Auxiliary boiler	0.04	Districtwide	Hourly	CEM	
	05/11/95 (most)	Boilers.steam generators, process heater - 1-5 mmBtu/hr	Annual heat input at least 1.8x10E9 Btu	30 ppmv	Districtwide		Stack test-every 2 yrs	Rule 74.15.1
			Annual heat input between 0.3x10E9 Btu and 1.8x10E9 Btu	tuned every 6 mos or after 750 hrs of operation-whichever occurs last	Districtwide			
	>10mmBtu/hr-9/01/91; 5-10 mmBtu/hr-3/1/92	ICI Boilers.steam generators, process heater	>5mm Btu/hr & annual heat input capacity> 9x10E9 Btu	40 ppmv	Districtwide		Stack test-every 2 yrs	Rule 74.15

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
			>5mmBtu/hr & annual heat input capacity< 9x10E9 Btu	Stack oxygen<35 or oxygen trim system set at 3% or tuned twice/CY	Districtwide		O2 test - 6 mo;tuneup-12mos;	
	05/31/94	NG fired fan type central furnaces	Offered for sale or installed	40 ng/J	Districtwide		Certification	Rule 74.22
	03/14/95	Stationary Gas Turbines at least 0.3 MW	0.3-2.9MW	Gas- 42 ppmv; oil-65	Districtwide		Annual stack test;continuous parametric monitoring	Rule 74.23
			2.9-10.0 MW	Gas- 25xE/25; oil-65	Districtwide		Annual stack test	
			>10.0 MW w/SCR	Gas-9xE/25;liquid-25xE/25	Districtwide		Annual stack test; >4,000hrs/yr-CEM	
			>10.0 MW w/o SCR	Gas-15xE/25;Oil-42xE/25	Districtwide		Same as above	
Clark County NV	1/01/06- units operating before 1/1/04; other construction date after 1/1/04	Fossil fuel burning Boilers and steam generators	>4 mmBtu/hr - gas fired	30 ppmvd@3% - O2	Districtwide		test - every 5 yrs	Section 49
			WEB SITE	www.co.clark.nv.us/air_quality/regs.htm				
ID	????	HMIWI	Constructed before 6/20/96	250 ppm	Statewide			58.01.01.862

State	Effective Date	Source Type	Description	Emission Limit (lb/mmBtu)	Applicability	Avg. Time	Test/CEM	Rule
				www2.state.id.us/adminrules/idapa58				
			WEB SITE					
OR	12/22/94	Acid Rain	40 CFR 72, 75, 76		Statewide			340-228-0300
				www.deq.state.or.us/about/rules.htm				
			WEB SITE					
WA	12/24/94	Acid Rain	40 CFR 72, 75,76		Statewide			Chapter 173-406 WAC
				www.ecy.wa.gov/laws-rule/ecywac.html#air				
			WEB SITE					