

DRAFT

Industrial/Commercial/Institutional (ICI) Boiler Control Strategy Proposal

ICI Boiler Size (mmBtu/hr)	Control Strategy/ Compliance Option	NOx Control Measure	SO ₂ Control Measure	Notes
Less than 25	OTC Proposal	Annual Boiler Tune-Up (OTC-10% Reduction from 2009)	#2 fuel oil - 0.05% S by wt. by 2012 #4 fuel oil - 0.25% S by wt. by 2012	For 5-25 mm Btu/hr Annual Boiler Tune-Up #2 fuel oil same as On-road low sulfur diesel oil
25-100	OTC Proposal Strategy #1 (Choice of strategy is at the discretion of the source)	Natural Gas 0.05 lb NOx/mmBtu #2 Fuel Oil 0.08 lb NOx/mmBtu #4 or #6 Fuel Oil 0.20 lb NOx/mmBtu	#2 fuel oil - 0.05% S by wt. by 2012 #4 fuel oil - 0.25% S by wt. by 2012 #6 fuel oil - 0.50% S by wt. by 2012	For 25-50 mmBtu/hr Initial stack test then Annual Boiler Tune-Up
	OTC Proposal Strategy #2 (Choice of strategy is at the discretion of the source)	Coal 0.30 lb NOx/mmBtu** 50% Reduction from uncontrolled (OTC: for 25-50 mm Btu/hr 50% Reduction from 2009, for 50-100 mm Btu/hr 10% Reduction from 2009)		For 50-100 mmBtu/hr Initial NOx stack test then once every 5 years and Annual Boiler Tune-Up
	OTC Proposal Strategy #3 (Choice of strategy is at the discretion of the source)	Purchase Current year CAIR NOx Allowances		#2 fuel oil same as On-road low sulfur diesel oil
	100-250	OTC Proposal Strategy #1 (Choice of strategy is at the discretion of the source)		Natural Gas 0.10 lb NOx/mmBtu #2, #4, or #6 Fuel Oil 0.20 lb NOx/mmBtu Natural Gas & Fuel Oil Combined 0.20 lb NOx/mmBtu Coal Wall-fired 0.14 lb NOx/mm Btu Tangential 0.12 lb NOx/mm Btu Stoker 0.22 lb NOx/mm Btu FBC 0.08 lb NOx/mm Btu
Strategy #2		LNB/SNCR*, LNB/FGR*, SNCR, SCR, or some combination of these controls	#2 fuel oil same as On-road low sulfur diesel oil	
Strategy #3		60% Reduction from uncontrolled (OTC-Nat gas 75%, Oil 40%, Coal 25% Reduction from 2009)		
Strategy #4		Purchase Current year CAIR NOx Allowances		

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ICI Boiler Size (mmBtu/hr)	Control Strategy/Compliance Option	NO _x Control Measure	SO ₂ Control Measure	Notes
Greater than 250	OTC Proposal Strategy #1 (Choice of strategy is at the discretion of the source)	Include in NO _x SIP Call or purchase Current year CAIR NO _x allowances	Purchase Current year CAIR SO ₂ allowances	NY - currently includes these in the NO _x SIP Call trading program NO _x CEMS
	OTC Proposal Strategy #2 (Choice of strategy is at the discretion of the source)	Phase I - 2009 0.12 NO _x lb/mmBtu (OTC-20% Reduction from 2009 if NO _x SIP call and 30% Reduction if not NO _x SIP call)	Phase I - 2009 0.35 lb SO ₂ /mmBtu	Equivalent to proposed. EGU Control Measures
		Phase II - 2013 0.08 NO _x lb/mmBtu	Phase II - 2013 0.25 lb SO ₂ /mmBtu	NO _x CEMS

*LNB/SNCR and LNB/FGR are examples of NO_x control technologies for achieving NO_x reductions.

**Emission rate from March 6, 2001 OTC Model Rule, not discussed with LADCO.