

US EPA ARCHIVE DOCUMENT

Pioneer Valley Energy Center - Westfield, Massachusetts
Combustion Turbine Startup
Predicted Maximum 1-hr CO Ambient Air Impact Concentrations

Pollutant	Fuel	Max 1-hr Emission Rates		1-Hour Average Impact Concentrations				Result
		ppmvd@15%O ₂	lb/hr	Maximum Impact µg/m ³	Background µg/m ³	Total µg/m ³	NAAQS µg/m ³	
NOx	Natural Gas	40	57.00	76.50				
NOx	ULSD	60	100.00	93.10				
CO	Natural Gas	3,700	7,410	9,945	3,843	13,788	40,000	34.47
CO	ULSD	10,000	13,341	12,420	3,843	16,263	40,000	40.66

Note: The maximum NOx impact concentrations are from the results of refined modeling. The maximum CO impact concentrations have been derived by scaling the refined modeling results for NOx by the ratio of the maximum 1-hour average CO and NOx emission rates on each fuel provided by the turbine manufacturer.