

Russell City Energy Centre
Anticipated Yearly Operating Regime

6X16 Operation

	Number per Turbi	Hours	Numbers for 2 turb	NOx emissions lbs	Total lbs	CO Emissions lbs	Total Lbs
Base/peak Load Operation		5050	10100	16.5	166650	20	202000
Hot Starts	250		500	125	62500	720	360000
Warm Starts	50		100	125	12500	1225	122500
Cold Starts	3		6	480	2880	5028	30168
Shutdowns	303		606	40	24240	106	64236
				Total NOX in tons	134.385	Total CO in Tons	389.452
				Limits	134.6		389.3

Base Load Operation

CO Hot start based on 50% of highest average Delta hot start which assumes 50% catalyst efficiency.
CO warm start based on 50% of max Delta hot start data.
Shutdown based on 50% of estimated shutdown data from engineering analysis.

CO Start Values based on DEC values

	CO avg	Co max	50% reduction	
2005	1309	1936	654.5	968
2006	1391	1863	695.5	931.5
2007	1402	2156	701	1078
2008	1437	2446	718.5	1223
average	1384.75	2100.25	692.375	1050.125

Engineering d

Hot Start	1,291.7
Warm Start	2514
Shutdown	212

6X16

New Limits

Based on new CO and Nox start limit

	Number per Turbi	Hours	Numbers for 2 turb	NOx Emissions lbs	Total lbs	CO Emissions lbs	Total Lbs
Base/peak Load Operation		5050	10100	16.5	166650	10	101000
Hot Starts	250		500	95	47500	720	360000
Warm Starts	50		100	125	12500	1225	122500
Cold Starts	3		6	480	2880	5028	30168
Shutdowns	303		606	40	24240	106	64236
				Total NOX in tons	126.885	Total CO in Tons	338.952

Base Load Operation