

Appendix A - SUN VALLEY ENERGY PROJECT
LMS100 PA Hourly Emissions - Start-Up / Shutdown Operations

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Assumptions

Start-up / shutdown events will not significantly affect SOx and PM10 emissions. Emission rates are assumed to be equal to normal operations
 One start-up per hour

Start-Up Emissions

Pollutant	Start-Up Emission Factor (lb/event) ¹	Normal Operations (lb/hr) ²	Normal Operations (lb/hr) ³	Start-Up Emissions (lbs/hr)
CO	15.4	12.00	5.00	20.40
NOx	7.0	8.21	3.42	10.42
VOC	2.1	1.71	0.71	2.81
PM10	N/A	N/A	N/A	6.00
SOx	N/A	N/A	N/A	0.606

¹ A start-up event is defined as the first 35 minutes of start-up, per GE specs

² The emission rates in this column are assumed to occur for 1 full hour

³ The emission rates in this column are prorated for the remaining 25 minutes of start-up by multiplying by 25/60

Shutdown Emissions

Pollutant	Shutdown Emission Factor (lb/event) ⁴	Normal Operations (lb/hr) ⁵	Normal Operations (lb/hr) ⁶	Shutdown Emissions (lb/hr)
CO	18.2	12.00	9.80	28.00
NOx	4.3	8.21	6.70	11.00
VOC	1.6	1.71	1.40	3.00
PM10	N/A	6.00	N/A	6.00
SOx	N/A	0.606	N/A	0.606

⁴ Emission rates in this column occur during the first 11 minutes of shutdown, per GE specs

⁵ Emission rates in this column are assumed to occur for one full hour

⁶ Emission rates in this column are pro-rated for the remaining 49 minutes of shutdown by multiplying by 49/60