Metcalf Energy Center
Modeled Impacts During Turbine Startup
Yellow cells indicate new emission rates

	Stack Diam, m	Stack Height, m	Exh Temp, Deg K	Exhaust Flow, m3/s	Exhaust Velocity, m/s	NOx Emission Rate 1-hr avg	CO Em Rate, g/s 1-hr avg	CO Em Rate, g/s 8-hr avg	Stack Diam, ft	Stack Height, ft	Exh Temp, Deg F	Exh Flow Rate, ft3/m	Exhaust Velocity, ft/s	NOx Emission Rate 1-hr avg	CO Emission Rate 1-hr avg	CO Emission Rate 8-hr avg
Averaging Period: One hour																
Turbine 1/HRSG	5.486	44.196	349.667	347.3	14.690	60.480	633.528	n/a	18.0	145.0	170	735,850	48.195	480.0	5028.0	n/a
Turbine 2/HRSG	5.486	44.196	349.667	451.3	19.090	2.420	3.537	n/a	18.0	145.0	170	956,250	62.63	19.21	28.07	n/a
Averaging Period: Eight hours																
Turbine 1/HRSG	5.486	44.196	349.667	451.3	19.090	n/a	n/a	80.075	18.0	145.0	170	956,250	62.630	n/a	n/a	635.5
Turbine 2/HRSG	5.486	44.196	349.667	451.3	19.090	n/a	n/a	14.207	18.0	145.0	170	956,250	62.63	n/a	n/a	112.75
Em. Generator	0.229	9.144	649.111	2.0	48.410	n/a	n/a	0.04749	0.75	30.0	709	4,210	158.82	n/a	n/a	0.38
																6,888.14

Notes: 1-hour averaging period: One turbine in startup, one turbine at max load
8-hour averaging period: One turbine in startup for first 6 hours; second turbine in startup for last two hours; emergency generator tested for 1 hour.