

Mirant Potomac, Alexandria, Virginia

Maximum Impacts Predicted by AERMOD-PRIME

Compliance Based on Highest, Second-Highest Short-term and Highest Annual Concentrations

SO₂ - Units 1&2 Off, Units 3,4,5 on 12 hrs @ 100% load and 12 hrs at 35% load. (100% load = 107 MW).

SO₂ = 0.22 lb/MBtu on all three units. Run 0600 - 1800 at 100% load, and the rest at 35% load on all units.

Year	Pollutant	Averaging Period	AERMOD-PRIME	Monitored Background	AERMOD-PRIME + Background	NAAQS	Impact Location		Distance	Direction	Ground Elevation	Flagpole Elevation
			Concentrations (µg/m ³)				X (m)	Y (m)	m	deg	m	m
2000	SO ₂	3-hour	720	238.4	958	1300	322787.7	4298786.0	174.8	354	4.6	39.6
		24-hour	442	53.0	495	365	322787.7	4298786.0	174.8	354	4.6	39.6
		Annual	61	15.7	77	80	322787.7	4298786.0	174.8	354	4.6	39.6
2001	SO ₂	3-hour	852	238.4	1,090	1300	322787.7	4298786.0	174.8	354	4.6	39.6
		24-hour	417	53.0	470	365	322787.7	4298786.0	174.8	354	4.6	39.6
		Annual	69	15.7	84	80	322787.7	4298786.0	174.8	354	4.6	39.6
2002	SO ₂	3-hour	784	238.4	1,022	1300	322787.7	4298786.0	174.8	354	4.6	39.6
		24-hour	391	53.0	444	365	322787.7	4298786.0	174.8	354	4.6	39.6
		Annual	56	15.7	71	80	322787.7	4298786.0	174.8	354	4.6	39.6
2003	SO ₂	3-hour	550	238.4	789	1300	322787.7	4298786.0	174.8	354	4.6	39.6
		24-hour	262	53.0	315	365	322787.7	4298786.0	174.8	354	4.6	39.6
		Annual	30	15.7	46	80	322787.7	4298786.0	174.8	354	4.6	39.6
2004	SO ₂	3-hour	687	238.4	925	1300	322787.7	4298786.0	174.8	354	4.6	39.6
		24-hour	242	53.0	295	365	322787.7	4298786.0	174.8	354	4.6	39.6
		Annual	41	15.7	56	80	322787.7	4298786.0	174.8	354	4.6	39.6