

Mirant Potomac, Alexandria, Virginia

Maximum Impacts Predicted by AERMOD-PRIME

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

SO2 - Unit 1-2 cycling with 8 hrs at full load, 8 hrs at min load, 8 hrs off. Unit 5 at full load, 24 hours On. 0.24 lb/MMBtu for all units.

Year	Pollutant	Averaging Period	AERMOD-PRIME	Monitored Background	AERMOD-PRIME + Background	NAAQS	Impact Location		Distance m	Direction deg	Ground Elevation m	Flagpole Elevation m
							Concentrations ($\mu\text{g}/\text{m}^3$)					
2000	SO ₂	3-hour	543	238.4	781	1300	322787.7	4298786.0	174.8	354	4.6	39.6
		24-hour	252	42.0	294	365	322787.7	4298786.0	174.8	354	4.6	39.6
		Annual	31	15.7	47	80	322787.7	4298786.0	174.8	354	4.6	39.6
2001	SO ₂	3-hour	585	238.4	824	1300	322787.7	4298786.0	174.8	354	4.6	39.6
		24-hour	245	42.0	287	365	322787.7	4298786.0	174.8	354	4.6	39.6
		Annual	36	15.7	52	80	322787.7	4298786.0	174.8	354	4.6	39.6
2002	SO ₂	3-hour	595	238.4	833	1300	322763.3	4298799.5	192.1	347	6.5	39.6
		24-hour	247	42.0	289	365	322787.7	4298786.0	174.8	354	4.6	39.6
		Annual	29	15.7	45	80	322787.7	4298786.0	174.8	354	4.6	39.6
2003	SO ₂	3-hour	519	238.4	757	1300	322787.7	4298786.0	174.8	354	4.6	39.6
		24-hour	179	42.0	221	365	322787.7	4298786.0	174.8	354	4.6	0.0
		Annual	19	15.7	35	80	322854.0	4298627.0	51.0	73	5.0	0.0
2004	SO ₂	3-hour	500	238.4	738	1300	322770.8	4298791.5	182.7	349	6.1	39.6
		24-hour	177	42.0	219	365	322880.8	4298542.5	102.7	133	6.7	0.0
		Annual	22	15.7	38	80	322854.0	4298627.0	51.0	73	5.0	0.0