

Pollutant Emissions for Proposed Plant Ben Hill ^{1, 2}

Pollutant	Emissions (lb/MMBtu)	Emissions (tons/year)	Emissions (lb/year)	Emissions (lb/hour)
Particulate Matter (PM)	0.018	654	1,308,000	149
Particulate Matter < 10 microns in diameter (PM ₁₀)	0.018	654	1,308,000	149
Particulate Matter < 2.5 microns in diameter (PM _{2.5})	0.006	447	849,000	97
Sulfur Dioxide (SO ₂)	0.052	1,890	3,780,000	432
Nitrogen Oxides (NO _x)	0.05	1,345	2,690,000	307
Carbon Monoxide (CO)	0.10	3,635	7,270,000	830
Mercury (Hg)	0.00000168	0.03	63	0.014
Lead (Pb)	0.000016	0.58	1163	0.13
Volatile Organic Compounds (VOC)	0.003	87	174,000	20
Fluorides (as HF)	0.000268	9.74	19,480	2.2
Sulfuric Acid (H ₂ SO ₄) Mist (SAM)	0.004	145	290,000	33
Ammonia (NH ₃)	--	224	448,000	51
Carbon Dioxide (CO ₂)	--	6,900,000	13,800,000,000	1,575,342
Hazardous Air Pollutants (HAP)	--	40.8	81,600	9.3
Coal Ash	--	--	--	--
Radioactive Elements	--	--	--	--

¹ Power4Georgians has stated that emissions for Plant Washington would be similar to those of proposed Plant Ben Hill. Power4Georgian's website. *Plant Ben Hill Presentation*. Available from: <http://www.power4georgians.com/pbh.aspx>

² Data from Georgia Department of Natural Resources. Environmental Protection Division, Air Protection Branch. Special Air Permit Review Docket. Plant Washington. Documents submitted by Power4Georgians. Available from: <http://www.gaepd.org/air/airpermit/html/permits/psd/dockets/plantwashington/index.htm>

³ HAP's are a class of harmful pollutants for which emissions limits, as opposed to allowable ambient air levels, are set by the EPA. These emissions limits are dictated by the technologies available to control pollution instead of by health risk considerations. Lockwood, Alan H., et.al., *Coal's Assault on Human Health*. 2009. Physicians for Social Responsibility. Available from: <http://www.psr.org/resources/coins-assault-on-human-health.html>

⁴ Data based on main coal-fired boiler emissions only and does not include emissions from the auxiliary boiler, emergency diesel generator, emergency firewater pump, cooling towers, transfer points, handling, transport, etc.

⁵ Data from Georgia Department of Natural Resources. Environmental Protection Division, Air Protection Branch. Special Air Permit Review Docket. *Plant Washington Prevention of Significant Deterioration Air Permit Application*. p. 10-14. Available from: <http://www.gaepd.org/air/airpermit/downloads/permits/psd/dockets/plantwashington/facilitydocs/supplementaldata120308.pdf>

⁶ Organic HAPs and Others value includes several metal compounds (i.e. arsenic trioxide).

⁷ Emissions contributions from selenium, arsenic trioxide, cadmium oxide, chromic acid (VI), chromic oxide, and manganese dioxide are not included in the 2.71 tons/year.

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