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GULF POWER
A SOUTHERN COMPANY

Faxed

September 29, 2002

Greg DeAngelo
Florida Department of Environmental Protection
Division of Air Resources Management
2600 Blair Stone Road
Mail Station #5510
Tallahassee, Florida 32399-2400

Dear Mr. DeAngelo:

RE: LANSING SMITH ELECTRIC GENERATING PLANT
WATERWALL TUBE REPLACEMENT PROJECT – ADDITIONAL INFORMATION
PERMIT No: 0050014-001-AV

Attached, please find the specific emission calculations for NOx and particulate matter recently requested of the Smith waterwall tube replacement project. Please let me know if you have any questions or need additional information.

Sincerely,

G. Dwain Waters, Q.E.P.
Air Quality Programs Supervisor

cc: : Jim. Vick, Gulf Power Company
Marie Largilliere, Gulf Power Company
Trey Hall, Gulf Power Company
Michael Burroughs, Gulf Power Company
Vicky Sullivan, Southern Company Services
Grady Moore, Balch & Bingham
Gary Perko, Hopping, Green & Sams
Ms. Sandra Veazey, FDEP Northwest District Office, Pensacola, Florida

Smith 2 Baseline Emissions Calculation

9/29/2002

Plant	Year	Month	Fuel Tons	% Moisture	% Ash	% Sulfur	Btu/ pound	mmBtu	Nox Rate	NOx Tons**	PM Tons***	Original SO2 Tons	Revised* SO2 Tons
SMITH 2	1998	9	56,392	10.68	9.78	2.53	11,589	1,307,060	0.400	261	22	2853	1372
SMITH 2	1998	10	56,841	10.07	9.14	2.29	11,793	1,340,642	0.400	268	21	2603	1408
SMITH 2	1998	11	55,932	9.58	10.04	2.78	11,753	1,314,740	0.400	263	22	3110	1380
SMITH 2	1998	12	39,790	9.55	10.01	2.74	11,734	933,798	0.400	187	16	2181	980
SMITH 2	1999	1	56,053	10.10	9.89	2.54	11,694	1,310,956	0.400	262	22	2847	1377
SMITH 2	1999	2	51,006	10.13	9.32	2.94	11,736	1,197,207	0.400	239	19	2999	1257
SMITH 2	1999	3	57,959	8.42	10.03	2.76	11,982	1,388,929	0.400	278	23	3199	1458
SMITH 2	1999	4	55,373	7.68	11.25	2.60	11,846	1,311,902	0.400	262	25	2879	1377
SMITH 2	1999	5	30,286	7.86	9.71	2.55	12,096	732,687	0.400	147	12	1545	769
SMITH 2	1999	6	54,532	8.82	9.48	2.63	12,147	1,324,798	0.400	265	21	2868	1391
SMITH 2	1999	7	56,497	8.24	9.43	2.33	12,285	1,388,141	0.400	278	21	2633	1458
SMITH 2	1999	8	54,066	7.74	10.36	2.59	12,158	1,314,869	0.400	263	22	2801	1380
SMITH 2	1999	9	51,154	7.87	9.21	2.37	12,297	1,258,088	0.400	252	19	2425	1321
SMITH 2	1999	10	56,660	7.59	9.7	2.53	12,339	1,398,248	0.400	280	22	2867	1468
SMITH 2	1999	11	40,786	7.6	9.49	2.44	12,410	1,012,310	0.400	202	15	1990	1063
SMITH 2	1999	12	44,106	7.33	9.06	2.52	12,522	1,104,566	0.400	221	16	2223	1160
SMITH 2	2000	1	50,453	9.91	7.01	1.79	12,161	1,229,135	0.379	233	14	1806	1291
SMITH 2	2000	2	50,489	11.95	5.15	0.84	11,874	1,199,010	0.379	227	10	848	1259
SMITH 2	2000	3	54,417	12.16	5.94	1.06	12,018	1,307,956	0.379	248	13	1154	1373
SMITH 2	2000	4	26,741	11.04	6.4	0.99	12,120	648,210	0.379	123	7	529	681
SMITH 2	2000	5	52,197	10.4	6.42	1.07	12,197	1,273,300	0.379	241	13	1117	1337
SMITH 2	2000	6	51,640	11.54	6.39	1.05	12,028	1,242,252	0.379	235	13	1084	1304
SMITH 2	2000	7	53,754	12.47	5.2	0.81	11,804	1,269,021	0.379	240	11	871	1332
SMITH 2	2000	8	53,747	11.67	5.11	0.71	11,885	1,277,572	0.379	242	11	763	1341
Annualized Average								14,542,598			206		15270

* Revised SO2 tons are based on most limiting SO2 limit for the facility, i.e Smith Unit 1 @ 2.1 lb/mmbtu.

** NOx tons slightly lower in baseline than original report due to a correction for rate in the wrong year (2875 vs. 2659).

*** AP-42 used for particulate emission calculations.