

EXHIBIT C

MODELING INFORMATION

Table C-1: Offsite Data Used For SO₂ NAAQS Modeling

Stack Description	Modeled Source ID	UTM Easting (km)	UTM Northing (km)	Base Elev. (m)	SO ₂ Emission Rate (g/s)	Stack Height (m)	Temp. (K)	Exit Vel. (m/s)	Stack Diam. (m)
DUKE ENERGY SANDERSVILLE, L.L.C, SANDERSVILLE (WASHINGTON COUNTY)									
Turbine No. 1	DES01	326.449	3665.732	138.0	7.7	28.04	783.6	29.56	4.57
Turbine No. 2	DES02	326.421	3665.768	136.9	7.7	28.04	783.6	29.56	4.57
Turbine No. 3	DES03	326.408	3665.785	136.3	7.7	28.04	783.6	29.56	4.57
Turbine No. 4	DES04	326.379	3665.821	134.2	7.7	28.04	783.6	29.56	4.57
Turbine No. 5	DES05	326.366	3665.838	135.2	7.7	28.04	783.6	29.56	4.57
Turbine No. 6	DES06	326.338	3665.874	135.6	7.7	28.04	783.6	29.56	4.57
Turbine No. 7	DES07	326.325	3665.891	135.3	7.7	28.04	783.6	29.56	4.57
Turbine No. 8	DES08	326.297	3665.927	134.0	7.7	28.04	783.6	29.56	4.57
PROGRESS ENERGY, WASHINGTON COUNTY POWER SANDERSVILLE (WASHINGTON COUNTY)									
Turbines T1-T5	PES01	322.784	3663.077	119.2	16.6	27.43	877.4	48.46	5.64
Heater H1	PES02	322.784	3663.077	119.2	0.01	3.05	688.6	4.88	0.40
Heater H2	PES03	322.784	3663.077	119.2	0.01	7	688.6	4.88	0.40
ENGELHARD CORPORATION, EDGAR'S PLANT, McINTYRE (WILKINSON COUNTY)									
4S	EHS01	292.8614	3636.4593	88.0	1.72	36.57	377.4	36.61	0.81
6S	EHS02	292.8614	3636.4593	88.0	3.31	25.91	377.4	17.06	1.68
10	EHS03	292.8614	3636.4593	88.0	2.07	45.72	349.7	19.56	0.61
30S	EHS04	292.8614	3636.4593	88.0	2.74	22.86	349.7	14.33	0.84
50S	EHS05	292.8614	3636.4593	88.0	2.74	45.72	355.2	14.01	0.91
70S	EHS06	292.8614	3636.4593	88.0	2.76	32.00	344.1	21.56	0.91
90	EHS07	292.8614	3636.4593	88.0	1.15	47.24	341.3	18.94	0.76
110S	EHS08	292.8614	3636.4593	88.0	1.27	60.96	343.0	14.54	0.76
120	EHS09	292.475	3636.497	91.0	4.04	60.35	394.1	21.82	1.22
130S	EHS10	292.8614	3636.4593	88.0	1.32	60.35	349.7	33.20	0.91
140	EHS11	292.446	3636.449	91.1	4.04	60.35	394.1	33.16	1.22
170	EHS12	292.8614	3636.4593	88.0	0.61	15.24	291.9	17.87	0.71
171S	EHS13	292.8614	3636.4593	88.0	0.61	15.24	291.9	17.87	0.71
210S	EHS14	292.8614	3636.4593	88.0	3.11	30.48	344.1	7.33	0.91
218	EHS15	292.8614	3636.4593	88.0	0.98	28.65	291.9	9.80	1.22
230	EHS16	292.779	3636.389	91.1	1.45	36.57	344.1	40.54	0.76
15B Spray Dryer (242)	EHS17	292.752	3636.377	90.9	1.64	22.86	394.1	26.27	1.22
248	EHS18	292.440	3636.521	91.0	0.31	48.77	343.6	29.05	0.91
GEORGIA POWER									
Stack 1 (SG01+ SG02)	GPS01	285.5874	3674.9538	116.0	3855.60	304.79	394.1	24.99	6.86
Stack 2 (SG03 + SG04)	GPS03	285.5874	3674.9538	116.0	7015.68	304.79	399.7	23.47	8.84
SOUTHERN NATURAL GAS COMPANY, HIGHWAY 17 NORTH, WRENS (JEFFERSON CO.)									
Compressor No. 1	SNS01	368.459	3679.751	140.5	5.76E-04	8	731.9	12.80	1.07
Compressor No. 2	SNS02	368.449	3679.751	140.8	5.76E-04	8	731.9	12.80	1.07
Compressor No. 3	SNS03	368.449	3679.751	140.8	8.63E-04	8	731.9	12.80	1.07
Compressor No. 5	SNS04	368.449	3679.751	140.8	2.02E-03	8	731.9	12.80	1.07

Table C-1: Offsite Data For SO₂ NAAQS Modeling

Stack Description	Modeled Source ID	UTM Easting (km)	UTM Northing (km)	Base Elev. (m)	SO ₂ Emission Rate (g/s)	Stack Height (m)	Temp. (K)	Exit Vel. (m/s)	Stack Diam. (m)
SOUTHERN NATURAL GAS COMPANY, 180 J.M. WALKER ROAD, MILLEGEVILLE (BALDWIN CO.)									
Compressor No. 1	SNS05	308.135	12 3659.791	12 127.9	3.73E-03	8 12.19	8 731.9	12 17.43	12 0.91
Compressor No. 2	SNS06	308.135	12 3659.791	12 127.9	3.73E-03	8 12.19	8 731.9	12 17.43	12 0.91
Compressor No. 3	SNS07	308.135	1 3659.791	1 127.9	2.58E-03	8 6.10	8 731.9	1 17.43	1 0.91
THIELE KAOLIN CO., REEDY CREEK, GA 296 N, WRENS (GLASCOCK COUNTY)									
Spray Dryer	TKS01	366.50	1 3682.50	1 147.2	1.10E-01	2 27.43	1 383.0	1 17.74	1 1.68
Boiler SB2	TKS02	366.500	1 3682.500	1 147.2	2.1	1 9.14	1 488.6	1 11.89	1 0.70
Spray Dryer No. 2	TKS03	364.956	1 3681.604	1 153.7	2.6	1 38.10	1 366.3	1 19.23	1 1.68
Roller Mill System No. 1 Stack	TKS04	365.99	18 3682.20	18 140.0	1.39E-03	2 13.56	9 340.8	9 14.26	9 0.67
Roller Mill System No. 2 Stack	TKS05	365.99	18 3682.20	18 140.0	1.39E-03	2 13.56	9 340.8	9 14.26	9 0.67
ACM 200 Mill Stack	TKS06	365.99	18 3682.20	18 140.0	1.10E-01	2 10.97	9 327.4	9 6.58	9 0.67
HUBER ENGINEERED PRODUCT									
Mine Boiler	HES01	369.3611	9 3682.6517	9 137.4	0.75	13 4.88	9 327.4	9 4.57	9 0.26
Plant/Mine Generators	HES02	369.3611	9 3682.6517	9 137.4	6.15	13 3.35	9 327.4	9 4.57	9 0.26
Structured Pigment Boiler	HES03	369.3611	9 3682.6517	9 137.4	5.51	13 15.85	9 327.4	9 3.66	9 1.07
No. 2 Spray Dryer Stack	HES04	369.3611	9 3682.6517	9 137.4	4.79	13 23.16	9 371.9	9 63.09	9 0.72
No. 3 Spray Dryer Stack	HES05	369.3611	9 3682.6517	9 137.4	6.05	13 29.56	9 386.3	9 10.06	9 1.83
Evaporator Boiler	HES06	369.3611	9 3682.6517	9 137.4	1.81	13 11.58	9 327.4	9 0.91	9 0.61
No. 1 Spray Dryer Stack	HES07	369.3611	9 3682.6517	9 137.4	4.18	13 22.86	9 371.9	9 60.96	9 0.70
J. M. HUBER, HUBER WRENS CALCINE PILANT, WRENS									
Spray Dryer Stack	JMS01	366.4064	9 3680.4122	9 145.3	1.51E-03	9 45.72	9 399.7	9 18.29	9 1.22
Spray Dryer #3	JMS02	367.366	3 3682.487	3 144.4	2.7	3 29.56	3 388.6	3 11.83	3 1.92
SAMS Boiler	JMS03	367.366	3 3682.487	3 144.4	0.3	3 15.85	3 546.9	3 14.63	3 1.07
Evap. Boiler	JMS04	367.366	3 3682.487	3 144.4	1.6	3 11.58	3 463.0	3 12.80	3 0.61
TIN, INC., dba TEMPLE-INLAND, THOMSON									
Four Dryers with RTO	TIS06	362.185	1 3703.674	1 160.7	7.2E-01	1 15.24	1 374.8	1 17.11	1 1.68
Boiler SB-1 (Projected)	TIS07	362.200	1 3703.760	1 163.7	4.3E-01	1 12.19	1 421.8	1 4.28	1 1.68
ESP stack	TIS08	362.5466	9 3703.879	9 170.0	2.27E-02	9 18.29	9 471.9	9 4.57	9 1.07
4 Multiclones & RTO	TIS09	362.5466	9 3703.879	9 170.0	3.40E-02	9 24.77	9 338.6	9 12.19	9 2.54
ENGELHARD CORPORATION, TODDSVILLE PLANT, VINSON ROAD, MCINTYRE (WILKINSON COUNTY)									
2A SPRAY DRYER (1)	EHS19	291.3935	9 3637.1682	9 87.0	1.79E+00	8 22.86	9 371.9	9 30.77	9 0.97
2B SPRAY DRYER (2)	EHS20	291.3935	9 3637.1682	9 87.0	1.79E+00	8 19.81	9 371.9	9 30.77	9 0.97
2C SPRAY DRYER (3)	EHS21	291.3935	9 3637.1682	9 87.0	1.79E+00	8 19.81	9 371.9	9 30.77	9 0.97
2D SPRAY DRYER (4)	EHS22	291.3935	9 3637.1682	9 87.0	2.88E+00	8 23.47	9 380.2	9 21.46	9 1.27
2F SPRAY DRYER (5)	EHS23	291.3935	9 3637.1682	9 87.0	4.70E+00	8 39.62	9 383.0	9 26.52	9 1.52
SARGENT DRYER (9)	EHS24	291.3935	9 3637.1682	9 87.0	3.45E-01	8 12.19	9 371.9	9 387.43	9 0.36
8D BOILER (98)	EHS25	291.3935	9 3637.1682	9 87.0	5.73E-01	8 7.01	9 377.4	9 17.25	9 0.46
8C BOILER (99)	EHS26	291.3935	9 3637.1682	9 87.0	5.73E-01	8 5.79	9 377.4	9 17.25	9 0.46
8B BOILER (104)	EHS27	291.3935	9 3637.1682	9 87.0	7.25E-01	8 6.10	9 377.4	9 17.25	9 0.46
TODDSVILLE BOILER (105)	EHS28	291.3935	9 3637.1682	9 87.0	5.51E-01	8 6.10	9 377.4	9 8.62	9 0.46
Flash Dryer #3	EHS29	291.025	3 3636.985	3 94.1	3.5	3 36.57	3 421.9	3 11.28	3 0.91
Flash Dryers 4 & 5	EHS30	291.025	3 3636.985	3 94.1	9.3	3 39.62	3 402.4	3 15.24	3 0.76
No. 6 Boiler	EHS31	291.025	3 3636.985	3 94.1	18.1	3 30.48	3 533.0	3 1.74	3 1.83

Table C-1: Offsite Data For SO₂ NAAQS Modeling

Stack Description	Modeled Source ID	UTM Easting (km)	UTM Northing (km)	Base Elev. (m)	SO ₂ Emission Rate (g/s)	Stack Height (m)	Temp. (K)	Exit Vel. (m/s)	Stack Diam. (m)
ENGELHARD CORPORATION, GORDON									
#4 SPRAY DRYER	EHS32	281.1903	9 3640.4092	9 107.1	3.34	14 41.15	9 377.4	9 16.46	9 1.68
#6 CALCINER	EHS33	281.1903	9 3640.4092	9 107.1	1.04	14 30.48	9 344.1	9 27.08	9 0.52
BOILER	EHS34	281.1903	9 3640.4092	9 107.1	1.16	14 9.75	9 394.1	9 11.32	9 0.61
SLIP HEATER #2	EHS35	281.1903	9 3640.4092	9 107.1	0.46	14 9.14	9 338.6	9 7.42	9 1.01
SLIP HEATER #1	EHS36	281.1903	9 3640.4092	9 107.1	0.46	14 9.14	9 338.6	9 7.42	9 1.01
THERMAL #3	EHS37	281.1903	9 3640.4092	9 107.1	0.75	14 13.11	9 338.6	9 7.42	9 1.01
THERMAL #2	EHS38	281.1903	9 3640.4092	9 107.1	0.75	14 13.11	9 338.6	9 7.42	9 1.01
#3 SPRAY DRYER	EHS39	281.1903	9 3640.4092	9 107.1	2.59	14 23.77	9 377.4	9 20.90	9 1.28
#2 SPRAY DRYER	EHS40	281.1903	9 3640.4092	9 107.1	2.59	14 23.77	9 377.4	9 20.90	9 1.28
#1 SPRAY DRYER	EHS41	281.1903	9 3640.4092	9 107.1	1.71	14 24.38	9 377.4	9 19.54	9 1.07
#2 CALCINER	EHS42	281.1903	9 3640.4092	9 107.1	0.58	14 17.68	9 338.6	9 13.39	9 0.40
#1 CALCINER	EHS43	281.1903	9 3640.4092	9 107.1	0.46	14 17.68	9 338.6	9 13.39	9 0.40
#3 CALCINER	EHS44	281.1903	9 3640.4092	9 107.1	0.75	14 21.03	9 344.1	9 6.50	9 0.84
#4 CALCINER	EHS45	281.1903	9 3640.4092	9 107.1	0.86	14 21.03	9 344.1	9 6.50	9 0.84
#5 CALCINER	EHS46	281.1903	9 3640.4092	9 107.1	0.86	14 21.03	9 344.1	9 6.50	9 0.84
BURGESS PIGMENT COMPANY, BECK BOULEVARD, SANDERSVILLE									
# 1 Calciner stack	BPS01	329.7873	9 3649.6186	9 132.8	0.77	8 13.72	9 305.8	9 20.73	9 0.38
# 2 Calciner stack	BPS02	329.7873	9 3649.6186	9 132.8	1.48	8 20.73	9 328.6	9 20.42	9 0.55
# 4 Calciner stack	BPS03	329.7873	9 3649.6186	9 132.8	1.44	8 19.81	9 348.0	9 32.00	9 0.73
# 5 Calciner stack	BPS04	329.7873	9 3649.6186	9 132.8	1.08	8 31.09	9 356.9	9 14.39	9 0.70
# 6 Calciner stack	BPS05	329.7873	9 3649.6186	9 132.8	0.28	9 40.54	9 389.1	9 25.91	9 0.91
# 7 Calciner stack	BPS06	329.7873	9 3649.6186	9 132.8	0.75	9 30.48	9 396.9	9 20.54	9 0.70
Boiler stack	BPS07	329.7873	9 3649.6186	9 132.8	0.00	9 9.45	9 588.6	9 3.23	9 0.30
IMERYS PIGMENTS, INC., PLANT 2, SANDERSVILLE (ECC #2)									
SPRAY DRYER NO. 1 (WITH HEAT RECOVERY) (D1)	ECS01	324.3895	9 3655.7	9 127.5	1.78	8 24.69	9 335.8	9 15.85	9 1.07
SPRAY DRYER NO. 2 (WITH HEAT RECOVERY) (D2)	ECS02	324.3895	9 3655.7	9 127.5	2.03	8 27.43	9 335.8	9 15.54	9 1.58
SPRAY DRYER NO. 3 (WITH HEAT RECOVERY) (D3)	ECS03	324.3895	9 3655.7	9 127.5	2.03	8 27.43	9 335.8	9 15.54	9 1.58
SPRAY DRYER NO. 4 (WITH HEAT RECOVERY) (D4)	ECS04	324.3895	9 3655.7	9 127.5	2.03	8 27.43	9 335.8	9 15.54	9 1.58
APRON DRYER - NORTH STACK NO. 1 (D5)	ECS05	324.3895	9 3655.7	9 127.5	0.42	15 9.14	9 418.0	9 10.64	9 0.76
APRON DRYER - NORTH STACK NO. 2 (D5)	ECS06	324.3895	9 3655.7	9 127.5	0.42	15 9.14	9 418.0	9 10.64	9 0.76
APRON DRYER - SOUTH STACK (D5)	ECS07	324.3895	9 3655.7	9 127.5	0.42	15 9.14	9 377.4	9 11.31	9 0.91
BOILER NO. 3 (BL3)	ECS08	324.3895	9 3655.7	9 127.5	0.80	8 10.97	16 449.7	16 13.08	16 0.61
BOILER NO.4 (BL4)	ECS09	324.3895	9 3655.7	9 127.5	0.80	8 10.97	9 449.7	9 13.08	9 0.61
BOILER NO. 5 (BL5)	ECS10	324.3895	9 3655.7	9 127.5	0.93	8 10.97	16 449.7	16 13.08	16 0.61
THIELE KAOLINE, SANDERSVILLE									
DC1 on SD1 Stack (15)	TK07	330.1428	9 3649.1503	9 142.1	1.90	8 19.81	9 391.9	9 31.58	9 0.91
Stack for DC2 (Dust Collector for SD2) (16)	TK08	330.1428	9 3649.1503	9 142.1	1.90	8 17.07	9 381.9	9 17.98	9 0.91
Stack for DC3 (Dust Collector for SD3) (17)	TK09	330.1428	9 3649.1503	9 142.1	1.90	8 18.90	9 362.4	9 14.86	9 1.01
Stack for DC4 (Dust Collector for SD4) (18)	TK10	330.1428	9 3649.1503	9 142.1	1.15	2 48.77	9 365.8	9 17.31	9 1.68
No. 5 Stack for DC5 (dust collector for SD5) (1)	TK11	330.1428	9 3649.1503	9 142.1	1.15	8 53.34	9 366.3	9 16.61	9 1.68
Calciner Nos 1 & 2, Spray Dryer Nos 6 & 7 (8)	TK12	330.1428	9 3649.1503	9 142.1	1.15	2 53.34	9 324.7	9 8.63	9 1.52
Stack for Old Boiler (30)	TK13	330.1428	9 3649.1503	9 142.1	1.27	8 9.14	9 460.8	9 7.38	9 0.70
Stack for New Boiler (36)	TK14	330.1428	9 3649.1503	9 142.1	1.60	8 9.14	9 460.8	9 7.38	9 0.70

Table C-1: Offsite Data Used For SO₂ NAAQS Modeling

Stack Description	Modeled Source ID	UTM Easting (km)	UTM Northing (km)	Base Elev. (m)	SO ₂ Emission Rate (g/s)	Stack Height (m)	Temp. (K)	Exit Vel. (m/s)	Stack Diam. (m)
					0.13				
IMERY'S CLAYS, INC. - SANDERSVILLE CALCINE PLANT, SANDERSVILLE (ECC # 1)									
CALCINER NO. 1 (C1)	ECS11	329.7253	9 3649.0343	9 136.0	0.65	8 42.67	9 344.1	9 11.40	9 0.61 9
CALCINER NO. 2 (C2)	ECS12	329.7253	9 3649.0343	9 136.0	1.08	8 45.72	9 339.1	9 12.59	9 0.61 9
CALCINER NO. 3 (C3)	ECS13	329.7253	9 3649.0343	9 136.0	1.08	8 45.72	9 339.1	9 12.59	9 0.61 9
CALCINER NO. 4 (C4)	ECS14	329.7253	9 3649.0343	9 136.0	1.15	2 61.57	9 339.1	9 12.01	9 0.84 9
SPRAY DRYER NO. 3 (SD3)	ECS15	329.7253	9 3649.0343	9 136.0	2.33	8 41.15	9 365.8	9 27.43	9 1.01 9
SPRAY DRYER NO. 4 (SD4)	ECS16	329.7253	9 3649.0343	9 136.0	2.56	8 41.15	9 365.8	9 27.43	9 1.01 9
GEORGIA - PACIFIC WOOD PRODUCTS LLC - WARRENTON									
Boiler Electrostatic Precipitator	GPS01	346.9569	9 3697.7667	9 170.3	0.27	8 22.86	9 533.0	9 17.98	9 1.30 9
SANDERSVILLE ETHANOL, LLC, SANDERSVILLE, GEORGIA									
DDGS Dryer System	S10	334.40811	5 3648.94283	5 134.2	2.34	5 38.10	5 421.9	5 14.00	5 3.07 5
GRIFFIN INDUSTRIES, INC., HIGHWAY 80, EAST DUBLIN									
Boiler F2	GIS01	326.063	4 3603.064	4 73.9	6.6	4 9.60	4 477.4	4 10.97	4 0.61 4
Boiler F3	GIS02	326.063	4 3603.064	4 73.9	9.9	4 10.97	4 444.1	4 10.55	4 1.01 4
FORSTMANN & COMPANY, INC., NATHANIEL DRIVE, E. DUBLIN (LAURENS CO.)									
Nos. 2 & 3 Boilers	FTS01	327.890	1 3602.690	1 79.0	4.8	1 38.10	1 510.8	1 2.41	1 2.13 1
No. 4 Boiler	FTS02	327.890	1 3602.690	1 79.0	4.0	1 28.95	1 460.2	1 8.99	1 1.22 1

1. PSD Increment Inventory Database
2. Based on a Title V Permit Limit of 40 tpy
3. Major Source Database
4. Minor Source Database
5. Permit Application forms for newly proposed Etanol plant as provided by EPD
6. Stack diameter and Exit Velocity for Baseline Dryer Stacks based on EPA Region II method for horizontal stack
7. Emission rate and Stack parameters for Heater 2 are considered same as of Heater 1
8. Title V Permit Application Forms
9. NEI Database
10. Calculations based on 3% S and Maximum Hourly Coal Consumption rate of 118 tons, 137 tons, 220 tons, and 244 tons for Steam Generators SG01-SG04 respectively. Stack ST1 is for SG01 and SG02 and ST2 for SG03 and SG04
11. Locations and Temperature, Velocity and Diameter for Compressors 1, 2, and 3 are considered same as of Compressor 5
12. Locations and Temperature, Velocity and Diameter for Compressors 1, and 2 are considered same as of Compressor 3
13. Calculations based on fuel oil being used with 0.5% S at a Maximum Hourly Oil consumption of 74.5 gallons, 610 gallons, 547 gallons, 475 gallons, 600 gallons, 180 gallons, 415 gallons for the seven listed sources.
14. Calculations based on fuel oil being used with 0.5% S and Maximum Hourly Oil consumption for each unit, which is based on the maximum design capacity for each unit.
15. 43.5 ton/yr emission rate from Title V permit application divided equally among three stacks.
16. Stack parameters for Boiler # 3 and Boiler # 5 are considered same as of Boiler # 3
17. Temple-Inland Forest Products Corporation PSD Review (May 1997)
18. Average of Increment Locations

Table C-2: Off-Site SO₂ Sources Used In PSD Increment Modeling

Stack Description	Modeled Source ID	UTM Easting (km)	UTM Northing (km)	Base Elev. (m)	SO ₂ Emission Rate (g/s)	Stack Height (m)	Temp. (K)	Exit Vel. (m/s)	Stack Diam. (m)							
DUKE ENERGY SANDERSVILLE, L.L.C, SANDERSVILLE (WASHINGTON COUNTY)																
Turbine No. 1	DES01	326.449	1	3665.732	1	138.0	7.7	1	28.04	1	783.6	1	29.56	1	4.57	1
Turbine No. 2	DES02	326.421	1	3665.768	1	136.9	7.7	1	28.04	1	783.6	1	29.56	1	4.57	1
Turbine No. 3	DES03	326.408	1	3665.785	1	136.3	7.7	1	28.04	1	783.6	1	29.56	1	4.57	1
Turbine No. 4	DES04	326.379	1	3665.821	1	134.2	7.7	1	28.04	1	783.6	1	29.56	1	4.57	1
Turbine No. 5	DES05	326.366	1	3665.838	1	135.2	7.7	1	28.04	1	783.6	1	29.56	1	4.57	1
Turbine No. 6	DES06	326.338	1	3665.874	1	135.6	7.7	1	28.04	1	783.6	1	29.56	1	4.57	1
Turbine No. 7	DES07	326.325	1	3665.891	1	135.3	7.7	1	28.04	1	783.6	1	29.56	1	4.57	1
Turbine No. 8	DES08	326.297	1	3665.927	1	134.0	7.7	1	28.04	1	783.6	1	29.56	1	4.57	1
PROGRESS ENERGY, WASHINGTON COUNTY POWER SANDERSVILLE (WASHINGTON COUNTY)																
Turbines T1-T5	PES01	322.784	1	3663.077	1	119.2	16.6	1	27.43	1	877.4	1	48.46	1	5.64	1
Heater H1	PES02	322.784	1	3663.077	1	119.2	0.01	1	3.05	1	688.6	1	4.88	1	0.40	1
ENGELHARD CORPORATION, EDGAR'S PLANT, McINTYRE (WILKINSON COUNTY)																
120	EHE09	292.475	1	3636.497	1	91.0	4.0	1	60.35	1	394.1	1	21.82	1	1.22	1
140	EHE11	292.446	1	3636.449	1	91.1	4.0	1	60.35	1	394.1	1	33.16	1	1.22	1
230	EHE16	292.779	1	3636.389	1	91.1	1.4	1	36.57	1	344.1	1	40.54	1	0.76	1
242	EHE17	292.752	1	3636.377	1	90.9	1.6	1	22.86	1	394.1	1	26.27	1	1.22	1
248	EHE18	292.440	1	3636.521	1	91.0	1.15E+00	2	48.77	1	343.6	1	29.05	1	0.91	1
TEMPLE-INLAND FOREST PRODUCTS CORP., 1241 HARRISON ROAD, THOMSON (McDUFFIE CO.)																
Dryer #1 (Baseline)	TIS01	362.197	1	3703.709	1	162.4	-1.26E-02	1	19.05	1	343.8	1	9.14E-04	6	119.90	6
Dryer #2 (Baseline)	TIS02	362.205	1	3703.710	1	162.7	-1.26E-02	1	19.05	1	343.8	1	9.14E-04	6	119.90	6
Dryer #3 (Baseline)	TIS03	362.209	1	3703.711	1	162.9	-1.26E-02	1	19.81	1	349.8	1	9.14E-04	6	140.29	6
Dryer #4 (Baseline)	TIS04	362.214	1	3703.713	1	163.0	-1.26E-02	1	19.81	1	349.8	1	9.14E-04	6	140.29	6
Boiler SB-1 (Baseline)	TIS05	362.200	1	3703.760	1	163.7	-3.53E-02	1	12.19	1	421.8	1	4.28	1	1.68	1
Four Dryers with RTO	TIS06	362.185	1	3703.674	1	160.7	7.2E-01	1	15.24	1	374.8	1	17.11	1	1.68	1
Boiler SB-1 (Projected)	TIS07	362.200	1	3703.760	1	163.7	4.3E-01	1	12.19	1	421.8	1	4.28	1	1.68	1
J.M. HUBER CORPORATION, HIGHWAY 17, WRENS (JEFFERSON COUNTY)																
Spray Dryer #3	JMS02	367.366	3	3682.487	3	144.4	2.7	3	29.56	3	388.6	3	11.83	3	1.92	3
SAMS Boiler	JMS03	367.366	3	3682.487	3	144.4	0.3	3	15.85	3	546.9	3	14.63	3	1.07	3
Evap. Boiler	JMS04	367.366	3	3682.487	3	144.4	1.6	3	11.58	3	463.0	3	12.80	3	0.61	3
ENGELHARD CORPORATION, TODDSVILLE PLANT, VINSON ROAD, MCINTYRE (WILKINSON COUNTY)																
Flash Dryer #3	EHS29	291.025	3	3636.985	3	94.1	3.5	3	36.57	3	421.9	3	11.28	3	0.91	3
Flash Dryers 4 & 5	EHS30	291.025	3	3636.985	3	94.1	9.3	3	39.62	3	402.4	3	15.24	3	0.76	3
No. 6 Boiler	EHS31	291.025	3	3636.985	3	94.1	18.1	3	30.48	3	533.0	3	1.74	3	1.83	3
GRIFFIN INDUSTRIES, INC., HIGHWAY 80, EAST DUBLIN																
Boiler F2	GISO1	326.063	4	3603.064	4	73.9	6.6	4	9.60	4	477.4	4	10.97	4	0.61	4
Boiler F3	GISO2	326.063	4	3603.064	4	73.9	9.9	4	10.97	4	444.1	4	10.55	4	1.01	4
THIELE KAOLIN CO., REEDY CREEK, GA 296 N, WRENS (GLASCOCK COUNTY)																
Boiler SB2	TKS02	366.500	1	3682.500	1	147.2	2.1	1	9.14	1	488.6	1	11.89	1	0.70	1
Spray Dryer No. 2	TKS03	364.956	1	3681.604	1	153.7	2.6	1	38.10	1	366.3	1	19.23	1	1.68	1

Table C-2: Off-Site SO₂ Sources Used In PSD Increment Modeling

Stack Description	Modeled Source ID	UTM Easting (km)	UTM Northing (km)	Base Elev. (m)	SO ₂ Emission Rate (g/s)	Stack Height (m)	Temp. (K)	Exit Vel. (m/s)	Stack Diam. (m)							
FORSTMANN & COMPANY, INC., NATHANIEL DRIVE, E. DUBLIN (LAURENS CO.)																
Nos. 2 & 3 Boilers	FTS01	327.890	1	3602.690	1	79.0	4.8	1	38.10	1	510.8	1	2.41	1	2.13	1
No. 4 Boiler	FTS02	327.890	1	3602.690	1	79.0	4.0	1	28.95	1	460.2	1	8.99	1	1.22	1
SANDERSVILLE ETHANOL, LLC, SANDERSVILLE, GEORGIA																
DDGS Dryer System	S10	334.40811	5	3648.94283	5	134.2	2.34	5	38.10	5	421.9	5	14.00	5	3.07	5

1. PSD Increment Inventory Database
2. Based on Title V Permit Limit of 39.9 tpy
3. Major Source Database
4. Minor Source Database
5. Permit Application forms for newly proposed Etanol plant as provided by EPD
6. Stack diameter and Exit Velocity for Baseline Dryer Stacks based on EPA Region II method for horizontal stack

Table C-3 Georgia Off-Site Sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
OGLETHORPE POWER CORP.	Heaters SH1 & SH2	GA001	1222.462	-688.549	3.7	162	0.5	26.0	811	1.26E-02	1	A
OGLETHORPE POWER CORP.	Turbines T1 & T2	GA002	1222.462	-688.549	27.4	162	5.5	33.5	807	1.94E+00	1	A
OGLETHORPE POWER CORP.	Turbines T3 & T4	GA003	1222.462	-688.549	27.4	162	6.3	29.9	810	2.34E+00	1	A
MASONITE CORPORATION	Oven (S23)	GA004	1242.938	-799.898	22.0	90	0.5	14.0	422	2.52E-04	1	A
MASONITE CORPORATION	Oven (S24)	GA005	1242.936	-799.889	22.0	90	0.8	10.5	533	3.78E-04	1	A
MASONITE CORPORATION	Cooler (S29)	GA006	1242.933	-799.874	22.0	90	0.6	12.9	533	5.04E-04	1	A
MASONITE CORPORATION	Cooler (S30)	GA007	1242.933	-799.874	22.3	90	0.6	11.6	533	2.52E-04	1	A
MASONITE CORPORATION	Cooler (S31)	GA008	1242.931	-799.855	23.8	90	0.8	12.4	533	5.04E-04	1	A
MASONITE CORPORATION	Cooler (S32)	GA009	1242.931	-799.855	22.1	90	0.6	11.6	533	2.52E-04	1	A
MASONITE CORPORATION	Cooler (S33)	GA010	1242.947	-799.878	23.2	90	0.6	11.6	533	2.52E-04	1	A
MASONITE CORPORATION	Cooler (S35)	GA011	1242.946	-799.866	24.1	90	1.1	11.6	422	5.04E-04	1	A
MASONITE CORPORATION	Oven (S25)	GA012	1242.952	-799.887	22.0	90	0.6	11.6	533	2.52E-04	1	A
MASONITE CORPORATION	Oven (S26)	GA013	1242.951	-799.883	22.0	90	0.6	11.6	533	2.52E-04	1	A
MASONITE CORPORATION	Cooler (S36)	GA014	1242.951	-799.865	23.8	90	0.8	13.4	422	5.04E-04	1	A
MASONITE CORPORATION	Cooler (S37)	GA015	1242.960	-799.876	23.8	90	0.8	13.4	422	5.04E-04	1	A
MASONITE CORPORATION	Oven (S27)	GA016	1242.965	-799.885	22.0	90	0.6	11.6	533	2.52E-04	1	A
MASONITE CORPORATION	Oven (S28)	GA017	1242.964	-799.882	22.0	90	0.8	12.4	533	3.78E-04	1	A
MASONITE CORPORATION	Oven (S22)	GA018	1242.998	-799.892	22.0	90	0.3	8.1	533	1.26E-04	1	A
MASONITE CORPORATION	Oven (S21)	GA019	1243.039	-799.886	22.0	90	0.6	8.1	533	1.26E-04	1	A
MASONITE CORPORATION	Cooler (S34)	GA020	1243.052	-799.860	22.1	90	0.6	11.6	533	2.52E-04	1	A
MASONITE CORPORATION	Oven (S20)	GA021	1243.081	-799.899	22.0	90	0.8	12.4	533	3.78E-04	1	A
MASONITE CORPORATION	Oven (S19)	GA022	1243.119	-799.909	22.0	91	0.5	14.0	422	2.52E-04	1	A
MASONITE CORPORATION	Oven (S18)	GA023	1243.166	-799.902	22.0	91	0.8	12.4	533	3.78E-04	1	A
MASONITE CORPORATION	Oven (S17)	GA024	1243.162	-799.878	22.0	90	0.5	11.2	422	2.52E-04	1	A
MASONITE CORPORATION	Oven (S16)	GA025	1243.217	-799.870	22.0	91	0.5	11.2	422	2.52E-04	1	A
VOUGHT AIRCRAFT INDUSTRIES	Boilers B1-B3	GA026	1239.723	-741.168	10.7	118	0.6	8.2	450	3.29E+00	1	A
TOLLESON LUMBER COMPANY	New Boilers 1-3	GA027	1241.372	-745.393	10.7	98	0.8	13.6	440	8.82E-02	1	A
TOLLESON LUMBER COMPANY	Retired Boilers B1 & B2	GA028	1241.372	-745.393	10.7	98	0.6	10.4	505	0.00E+00	1	A
COASTAL ASPHALT & CONSTRUCTION	Drum Dryer	GA029	1243.235	-717.128	8.2	107	1.1	15.9	347	0.00E+00	1	A
DYKA	Fugitive	GA030	1244.116	-716.686	1.0	110	1.0	0.001	0.001	0.00E+00	1	A
CERMEX	Kiln System	GA031	1251.975	-748.066	63.7	91	2.1	34.8	366	7.77E+01	1	A
RIVERWOOD INTERNATIONAL CORP.	Paper Machine 1	GA032	1245.897	-708.947	18.1	94	1.0	0.001	0.001	2.07E-02	1	A
RIVERWOOD INTERNATIONAL CORP.	Paper Machine 2	GA033	1245.893	-708.923	18.1	94	1.0	0.001	0.001	4.91E-02	1	A
RIVERWOOD INTERNATIONAL CORP.	Bark Boiler 2	GA034	1245.963	-708.991	91.5	92	3.0	15.8	325	1.54E+01	1	A
RIVERWOOD INTERNATIONAL CORP.	No. 3 Smelt Dissolv. Tank	GA035	1245.969	-709.021	67.1	89	1.5	11.3	339	2.21E-01	1	A
RIVERWOOD INTERNATIONAL CORP.	No. 3 Recovery Boiler	GA036	1245.980	-709.036	91.5	88	3.4	20.0	456	2.47E+01	1	A
RIVERWOOD INTERNATIONAL CORP.	No.2 Power Boiler	GA037	1245.996	-708.988	91.5	93	3.2	12.2	325	9.52E+00	1	A
RIVERWOOD INTERNATIONAL CORP.	No. 1 Power Boiler	GA038	1245.995	-708.982	91.5	93	3.2	12.2	325	8.11E+00	1	A
RIVERWOOD INTERNATIONAL CORP.	No. 1 Recovery Boiler	GA039	1246.000	-709.006	91.5	92	2.8	11.3	411	-1.53E+01	1	F
RIVERWOOD INTERNATIONAL CORP.	No. 2 Recovery Boiler	GA040	1246.000	-709.006	91.5	92	2.8	9.5	415	-1.55E+01	1	F
RIVERWOOD INTERNATIONAL CORP.	Bark Boiler 1	GA041	1246.000	-709.005	91.5	92	3.0	15.8	325	-1.13E-04	1	F
Armstrong World Industries Inc	FF Fluid Heater	GA042	1245.086	-703.488	12.2	99	0.2	16.3	505	1.26E-01	1	A
Armstrong World Industries Inc	FF Process Boiler	GA043	1245.086	-703.488	45.7	99	1.0	16.3	484	1.19E+01	1	A
Armstrong World Industries Inc	SF Fluid Heater	GA044	1245.086	-703.488	12.2	99	0.2	16.3	505	1.26E-01	1	A
Armstrong World Industries Inc	SF Process Boiler	GA045	1245.086	-703.488	45.7	99	1.0	16.3	484	1.19E+01	1	A
RIVERWOOD INTERNATIONAL CORP.	No. 2 Smelt Dissolv. Tank	GA046	1246.063	-708.971	33.5	94	1.2	5.5	350	-5.92E-02	1	F
RIVERWOOD INTERNATIONAL CORP.	No. 1 Smelt Dissolv. Tank	GA047	1246.060	-708.953	33.5	94	1.2	5.2	349	-5.29E-02	1	F

Table C-3 Georgia Off-Site Sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
SHEPHERD CONSTRUCTION CO.	Feed Hopper ES1	GA048	1253.467	-751.544	7.1	124	1.1	22.6	411	2.43E+01	1	A
RIVERWOOD INTERNATIONAL CORP.	Lime Kiln No. 2	GA049	1246.112	-709.060	15.5	94	1.0	10.5	345	5.24E+00	1	A
RIVERWOOD INTERNATIONAL CORP.	Lime Kiln No. 1	GA050	1246.110	-709.052	15.5	94	1.0	10.4	340	5.24E+00	1	A
BORAL BRICKS	Tunnel Kiln	GA051	1245.912	-703.271	10.4	91	0.9	56.7	478	8.06E-01	1	A
FRITO-LAY	Boiler #1(based on fuel oil)	GA052	1252.554	-740.677	18.3	97	1.0	16.9	547	5.04E+00	1	A
BIBB YARNS	Boilers 1,3, & 4	GA053	1245.707	-701.178	45.7	91	2.0	1.5	505	7.96E+00	1	A
FRITO-LAY	Baked Potato Chips (BLL12)	GA054	1252.562	-740.675	1.0	97	1.0	0.001	0.001	2.02E-03	1	A
FRITO-LAY	Baked Tortilla Chips (BL1)	GA055	1252.562	-740.675	1.0	97	1.0	0.001	0.001	1.89E-03	1	A
FRITO-LAY	Boiler #2(based on fuel oil)	GA056	1252.562	-740.675	18.3	97	1.0	16.9	547	5.04E+00	1	A
FRITO-LAY	Pretzel Line #1 (PL1)	GA057	1252.562	-740.675	1.0	97	1.0	0.001	0.001	6.30E-04	1	A
FRITO-LAY	Pretzel Line #2 (PL2)	GA058	1252.562	-740.675	1.0	97	1.0	0.001	0.001	6.30E-04	1	A
FRITO-LAY	ROTC 1 (10/11/95)	GA059	1252.562	-740.675	1.0	97	1.0	0.001	0.001	1.26E-03	1	A
FRITO-LAY	ROTC 2 (10/11/95)	GA060	1252.562	-740.675	1.0	97	1.0	0.001	0.001	1.26E-03	1	A
GANDY'S INDUSTRIES	Fugitive	GA061	1246.366	-702.797	1.0	88	1.0	0.001	0.001	0.00E+00	1	A
MID-GEORGIA COGEN	Aux. Boiler (B1)	GA062	1252.981	-740.173	48.8	95	0.9	17.1	439	5.62E-01	1	A
MID-GEORGIA COGEN	Turbine (T1)	GA063	1252.981	-740.173	48.8	95	4.9	16.7	434	9.32E+00	1	A
MID-GEORGIA COGEN	Turbine (T2)	GA064	1252.981	-740.173	48.8	95	4.9	16.7	434	9.32E+00	1	A
ROBBINS AIR FORCE BASE	Generators G13S-G16S	GA065	1251.320	-725.364	36.6	93	0.3	54.3	731	3.73E+00	1	A
DUKE ENERGY TIFT	Auxiliary Boiler	GA066	1273.851	-849.949	15.2	99	0.8	12.2	476	2.52E-02	1	A
DUKE ENERGY TIFT	CCCT No. 1	GA067	1273.893	-849.989	49.1	99	5.5	21.1	366	1.80E+00	1	A
DUKE ENERGY TIFT	CCCT No. 2	GA068	1273.929	-850.014	49.1	98	5.5	21.1	366	1.80E+00	1	A
GEORGIA POWER CO.	Combustion Turbine #1	GA069	1253.441	-729.526	17.1	81	4.3	56.7	779	7.71E+01	1	A
GEORGIA POWER CO.	Combustion Turbine #2	GA070	1253.436	-729.493	17.1	81	4.3	56.7	779	7.71E+01	1	A
TEXPRINT	Boiler B3	GA071	1251.293	-704.158	23.8	98	0.6	13.1	505	3.28E+00	1	A
J.M. HUBER CORPORATION	No. 3 Spray Dryer	GA072	1253.910	-715.732	12.2	82	1.5	18.3	394	0.00E+00	1	A
J.M. HUBER CORPORATION	No. 4 Spray Dryer	GA073	1253.910	-715.732	33.5	82	1.8	18.4	339	3.28E+00	1	A
R J Reynolds Tobacco Co.	BOILER3	GA074	1251.908	-703.629	45.7	105	2.2	3.3	450	-4.28E+01	1	F
R J Reynolds Tobacco Co.	BOILER345	GA075	1251.908	-703.629	45.7	105	2.2	10.1	443	1.07E+02	1	A
R J Reynolds Tobacco Co.	BOILER12	GA076	1251.946	-703.627	65.2	103	1.7	8.7	522	-2.91E+01	1	F
DRY BRANCH KAOLIN CO.	CDPP (Pilot Plant Dryer)	GA077	1260.115	-703.723	22.9	141	0.3	18.6	394	3.53E-01	1	A
DRY BRANCH KAOLIN CO.	D15 (Impact Mill)	GA078	1260.115	-703.723	22.9	141	1.2	12.1	358	6.98E-01	1	A
DRY BRANCH KAOLIN CO.	FD9 (Flash Dryer No. 9)	GA079	1260.115	-703.723	21.3	141	0.6	29.0	394	3.93E-01	1	A
DRY BRANCH KAOLIN CO.	SD14 (Spray Dryer No. 14)	GA080	1260.115	-703.723	41.2	141	1.7	19.8	319	2.08E+00	1	A
DRY BRANCH KAOLIN CO.	CA4 (Calcliner No. 4)	GA081	1260.142	-703.325	45.7	128	1.1	21.1	589	2.38E+00	1	A
DRY BRANCH KAOLIN CO.	BL2 (Boiler No. 2)	GA082	1260.223	-703.426	8.8	140	0.6	16.8	455	8.28E-01	1	A
SCRUGGS COMPANY	Drum Mixer	GA083	1302.393	-908.029	11.6	61	1.2	18.4	394	5.62E+00	1	A
PACKAGING CORPORATION OF AMERICA	CBSS	GA084	1310.630	-933.389	67.1	60	3.4	12.2	342	8.44E-01	1	A
PACKAGING CORPORATION OF AMERICA	No. 2 lime Kiln	GA085	1310.630	-933.389	24.1	60	1.3	6.7	328	-2.52E-01	1	F
PACKAGING CORPORATION OF AMERICA	No. 3 Lime Kiln	GA086	1310.630	-933.389	18.3	60	1.1	17.7	333	-1.95E+00	1	F
PACKAGING CORPORATION OF AMERICA	No. 4 Lime Kiln	GA087	1310.630	-933.389	61.0	60	1.5	14.8	464	2.52E+00	1	A
PACKAGING CORPORATION OF AMERICA	TRS Incinerator	GA088	1310.630	-933.389	45.7	60	0.6	30.1	355	1.15E+00	1	A
SHAW INDUSTRIES	Boiler B02	GA089	1311.206	-921.030	8.2	61	0.8	3.8	408	7.94E-01	1	A
HOOVER	Dryer	GA090	1312.715	-916.595	6.3	61	0.7	0.0	361	4.41E+00	1	A
ARCHER DANIELS MIDLAND CO.	Backup Boiler?	GA091	1313.733	-917.441	16.8	61	1.5	19.6	478	7.06E-01	1	A
ARCHER DANIELS MIDLAND CO.	Refinery Boiler?	GA092	1313.733	-917.441	24.4	61	0.8	0.244	0.001	4.16E-01	1	A
ARCHER DANIELS MIDLAND CO.	Wood Waste Boiler	GA093	1313.733	-917.441	17.7	61	1.4	12.4	355	8.57E+00	1	A
ENGELHARD CORPORATION	Flash Dryer #3	GA094	1281.242	-694.550	36.6	94	0.9	11.3	422	3.53E+00	1	A

Table C-3 Georgia Off-Site Sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
ENGELHARD CORPORATION	Flash Dryers 4 & 5	GA095	1281.242	-694.550	39.6	94	0.8	15.2	403	9.32E+00	1	A
ENGELHARD CORPORATION	No. 6 Boiler	GA096	1281.242	-694.550	30.5	94	1.8	1.7	533	1.81E+01	1	A
Engelhard Corp. - Edgar Plant	248.000	GA097	1282.713	-694.766	48.8	91	0.9	29.1	344	1.26E-03	1	A
Engelhard Corp. - Edgar Plant	11G Spray Dryer (140)	GA098	1282.731	-694.836	60.4	91	1.2	33.2	394	4.04E+00	1	A
Engelhard Corp. - Edgar Plant	11F Spray Dryer (120)	GA099	1282.751	-694.783	60.4	91	1.2	21.8	394	4.04E+00	1	A
Engelhard Corp. - Edgar Plant	15B Spray Dryer (242)	GA100	1283.044	-694.854	22.9	91	1.2	26.3	394	1.64E+00	1	A
Engelhard Corp. - Edgar Plant	230	GA101	1283.069	-694.838	36.6	91	0.8	40.5	344	1.45E+00	1	A
DUKE ENERGY BUFFALO CREEK	CCCT 1	GA102	1300.828	-663.808	49.1	111	5.5	21.1	369	1.83E+00	1	A
DUKE ENERGY BUFFALO CREEK	CCCT 2	GA103	1300.874	-663.805	49.1	110	5.5	21.1	369	1.83E+00	1	A
DUKE ENERGY BUFFALO CREEK	Auxiliary Boiler	GA104	1300.931	-663.779	9.8	110	0.8	13.7	483	3.28E-02	1	A
PROGRESS ENERGY	Heater H1	GA105	1307.957	-663.328	3.0	119	0.4	4.9	689	1.26E-02	1	A
PROGRESS ENERGY	Turbines T1-T5	GA106	1307.957	-663.328	27.4	119	5.6	48.5	878	1.66E+01	1	A
GRIFFIN INDUSTRIES	Boiler F2	GA107	1321.545	-722.047	9.6	74	0.6	11.0	478	6.63E+00	1	A
GRIFFIN INDUSTRIES	Boiler F3	GA108	1321.545	-722.047	11.0	74	1.0	10.5	444	9.93E+00	1	A
DUKE ENERGY SANDERSVILLE	Turbine No. 8	GA109	1310.916	-659.909	28.0	134	4.6	29.6	784	7.69E+00	1	A
DUKE ENERGY SANDERSVILLE	Turbine No. 7	GA110	1310.950	-659.940	28.0	135	4.6	29.6	784	7.69E+00	1	A
DUKE ENERGY SANDERSVILLE	Turbine No. 6	GA111	1310.966	-659.955	28.0	136	4.6	29.6	784	7.69E+00	1	A
DUKE ENERGY SANDERSVILLE	Turbine No. 5	GA112	1310.999	-659.985	28.0	135	4.6	29.6	784	7.69E+00	1	A
DUKE ENERGY SANDERSVILLE	Turbine No. 4	GA113	1311.015	-660.000	28.0	134	4.6	29.6	784	7.69E+00	1	A
DUKE ENERGY SANDERSVILLE	Turbine No. 3	GA114	1311.050	-660.030	28.0	136	4.6	29.6	784	7.69E+00	1	A
DUKE ENERGY SANDERSVILLE	Turbine No. 2	GA115	1311.066	-660.045	28.0	137	4.6	29.6	784	7.69E+00	1	A
DUKE ENERGY SANDERSVILLE	Turbine No. 1	GA116	1311.099	-660.076	28.0	138	4.6	29.6	784	7.69E+00	1	A
SP NEWSPRINT COMPANY	Gas Turbine/Heat Boiler	GA117	1322.954	-727.571	21.3	55	3.6	19.4	416	4.25E-01	2	A
SP NEWSPRINT COMPANY	No. 1 Power Boiler	GA118	1322.954	-727.571	47.3	55	3.0	7.0	436	5.04E+01	2	A
SP NEWSPRINT COMPANY	No. 2 Power Boiler	GA119	1322.954	-727.571	54.9	55	2.7	17.6	416	1.99E+01	2	A
FORSTMANN & COMPANY	No. 4 Boiler	GA120	1323.407	-722.103	29.0	79	1.2	9.0	460	3.99E+00	1	A
FORSTMANN & COMPANY	Nos. 2 & 3 Boilers	GA121	1323.407	-722.103	38.1	79	2.1	2.4	511	4.80E+00	1	A
TEMPLE-INLAND FOREST PRODUCTS CORP.	Four Dryers with RTO	GA122	1339.636	-616.467	15.2	161	1.7	17.1	375	7.18E-01	1	A
TEMPLE-INLAND FOREST PRODUCTS CORP.	Dryer #1 (Baseline)	GA123	1339.641	-616.431	19.1	162	119.9	0.001	344	-1.26E-02	1	F
TEMPLE-INLAND FOREST PRODUCTS CORP.	Boiler SB-1 (Baseline)	GA124	1339.635	-616.380	12.2	164	1.7	4.3	422	-3.53E-02	1	F
TEMPLE-INLAND FOREST PRODUCTS CORP.	Boiler SB-1 (Projected)	GA125	1339.635	-616.380	12.2	164	1.7	4.3	422	4.31E-01	1	A
TEMPLE-INLAND FOREST PRODUCTS CORP.	Dryer #2 (Baseline)	GA126	1339.649	-616.428	19.1	163	119.9	0.001	344	-1.26E-02	1	F
TEMPLE-INLAND FOREST PRODUCTS CORP.	Dryer #3 (Baseline)	GA127	1339.653	-616.427	19.8	163	140.3	0.001	350	-1.26E-02	1	F
TEMPLE-INLAND FOREST PRODUCTS CORP.	Dryer #4 (Baseline)	GA128	1339.657	-616.424	19.8	163	140.3	0.001	350	-1.26E-02	1	F
THIELE KAOLIN CO.	Boiler SB2	GA129	1346.184	-637.768	9.1	154	0.7	11.9	489	2.11E+00	1	A
THIELE KAOLIN CO.	Spray Dryer No. 2	GA130	1346.184	-637.768	38.1	154	1.7	19.2	366	2.56E+00	1	A
J.M. HUBER CORPORATION	Evap. Boiler	GA131	1348.398	-636.480	11.6	144	0.6	12.8	463	1.63E+00	1	A
J.M. HUBER CORPORATION	SAMS Boiler	GA132	1348.398	-636.480	15.9	144	1.1	14.6	547	2.90E-01	1	A
J.M. HUBER CORPORATION	Spray Dryer #3	GA133	1348.398	-636.480	29.6	144	1.9	11.8	389	2.70E+00	1	A
APAC-GEORGIA	Dryer	GA134	1358.767	-609.217	9.4	110	1.2	26.2	394	6.44E+00	1	A
REEVES CONSTRUCTION COMPAY	Drum Mixer	GA135	1360.341	-607.365	11.6	115	0.9	17.6	422	1.46E+01	1	A
UNITED CATALYSTS	Cage Mill	GA136	1375.263	-627.616	4.3	109	1.2	18.3	328	5.42E-01	1	A
UNITED CATALYSTS	Roller Mill	GA137	1375.263	-627.616	15.5	109	0.8	16.2	355	2.02E-01	1	A
RINGIER AMERICA	Boilers (2)	GA138	1371.510	-602.486	28.7	114	1.1	63.0	584	3.10E+01	1	A
AMOCO PERFORMANCE PRODUCTS	Boiler A21	GA139	1384.057	-620.120	15.2	71	0.8	27.4	550	3.83E+00	1	A
AMOCO PERFORMANCE PRODUCTS	Heaters S1 & S2	GA140	1384.057	-620.120	19.2	71	1.2	4.0	450	4.30E+00	1	A
AMOCO PERFORMANCE PRODUCTS	Hot Oil Heater	GA141	1384.057	-620.120	36.6	71	1.2	3.6	478	1.31E+00	1	A

Table C-3 Georgia Off-Site Sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
AMOCO PERFORMANCE PRODUCTS	S8A, S12, S74, & S5	GA142	1384.057	-620.120	15.2	71	0.8	0.001	0.001	2.21E+00	1	A
AMOCO PERFORMANCE PRODUCTS	Waste Fuel Boiler	GA143	1384.057	-620.120	24.4	71	0.6	18.3	478	1.26E+00	1	A
AMITY DYEING & FINISHING CO.	Boilers	GA144	1384.797	-609.204	29.0	45	1.4	0.0	505	1.69E+00	1	A
AMITY DYEING & FINISHING CO.	Dryers	GA145	1384.797	-609.204	10.7	45	0.6	0.0	433	0.00E+00	1	A
AMITY DYEING & FINISHING CO.	Heaters	GA146	1384.797	-609.204	29.0	45	1.4	0.0	533	3.15E-01	1	A
KENDALL HEALTHCARE CORPORATION	No. 2 Boiler	GA147	1386.498	-616.742	15.2	42	0.6	20.2	450	2.14E+00	1	A
CSR-KNOX RIVERS	Dryer	GA148	1386.529	-611.449	11.6	36	1.1	23.0	394	1.19E+00	1	A
AUGUSTA RECYCLING ASSOCIATES	Boilers B1 & B2	GA149	1388.861	-620.884	45.7	41	1.3	13.4	450	1.51E+01	1	A
PEACHTREE GENERATING CORPORATION	Boiler IIA	GA150	1389.950	-623.800	60.7	37	2.5	11.0	339	-4.69E+01	1	F
PEACHTREE GENERATING CORPORATION	Boiler IIB	GA151	1389.950	-623.800	60.7	37	5.3	4.1	422	-9.65E+01	1	F
INTERNATIONAL FLAVORS & FRAGRANCES	P11	GA152	1389.823	-622.726	9.5	45	0.9	1.3	293	3.53E-01	1	A
PQ (PHILADELPHIA QUARTZ) CORPORATION	Dryer	GA153	1390.164	-622.575	27.4	42	0.6	12.9	350	1.26E-02	1	A
PQ (PHILADELPHIA QUARTZ) CORPORATION	Small Boilers	GA154	1390.164	-622.575	6.1	42	0.8	9.6	478	7.56E-02	1	A
INTERNATIONAL PAPER CO.	No. 1 Smelt tank	GA155	1390.586	-623.511	60.7	49	1.1	6.9	354	-2.65E-01	1	F
Augusta Newsprint Co	Package Boiler	GA156	1390.510	-622.941	36.6	47	2.1	22.6	637	3.89E+00	1	A
Augusta Newsprint Co	Woodwaste Boiler, B1	GA157	1390.510	-622.941	42.7	47	3.0	8.8	341	3.75E+01	1	A
INTERNATIONAL PAPER CO.	No. 1 Recovery Boiler	GA158	1390.609	-623.475	39.6	49	2.1	12.6	433	-1.31E+01	1	F
INTERNATIONAL PAPER CO.	No. 1 Power Boiler	GA159	1390.585	-623.292	61.0	49	2.5	17.5	330	2.71E+01	1	A
INTERNATIONAL PAPER CO.	No. 2 Power Boiler	GA160	1390.582	-623.258	61.0	49	2.7	20.5	519	5.48E+01	1	A
INTERNATIONAL PAPER CO.	# 3 Power Boil.(was #1 RB)	GA161	1390.608	-623.294	61.0	49	3.0	17.9	450	1.80E+01	1	A
DEERFIELD SPECIALTY PAPERS	Package Boiler	GA162	1390.805	-624.377	33.5	35	1.1	13.2	422	2.46E+01	1	A
INTERNATIONAL PAPER CO.	Calciner	GA163	1390.691	-623.623	21.1	46	1.2	9.6	349	-1.35E+00	1	F
INTERNATIONAL PAPER CO.	No. 3 Recovery Boiler	GA164	1390.637	-623.314	64.0	49	3.0	32.0	469	8.96E+01	1	A
INTERNATIONAL PAPER CO.	No. 3 Smelt Tank	GA165	1390.654	-623.336	64.0	49	1.8	5.2	352	8.19E-01	1	A
INTERNATIONAL PAPER CO.	No. 2 RB (modified)	GA166	1390.648	-623.294	61.0	49	2.4	21.8	431	2.82E+01	1	A
INTERNATIONAL PAPER CO.	No. 2 Recovery Boiler	GA167	1390.648	-623.294	39.6	49	2.1	14.4	448	-1.40E+01	1	F
INTERNATIONAL PAPER CO.	No. 3 Lime Kiln	GA168	1390.790	-623.626	30.5	45	2.1	10.7	349	1.71E+00	1	A
INTERNATIONAL PAPER CO.	No. 1 Lime Kiln	GA169	1390.786	-623.411	20.3	48	1.1	10.0	349	-1.12E+00	1	F
INTERNATIONAL PAPER CO.	No. 1 LK (modified)	GA170	1390.786	-623.411	59.8	48	1.2	10.1	346	7.06E-01	1	A
INTERNATIONAL PAPER CO.	No. 2 Lime Kiln	GA171	1390.801	-623.392	62.9	48	1.6	15.4	345	1.76E+00	1	A
MONSANTO COMPANY DAIRY	Boiler B1	GA172	1389.629	-613.903	30.5	35	0.9	17.8	461	4.66E+00	1	A
Nutrasweet Kelco Co	Waste boiler (173)	GA173	1390.010	-612.650	30.5	37	0.6	12.2	344	3.59E-01	1	A
Nutrasweet Kelco Co	Waste boiler (192)	GA174	1390.010	-612.650	30.5	37	1.0	14.6	347	5.04E-02	1	A
Nutrasweet Kelco Co	Zurn boiler (101)	GA175	1390.010	-612.650	45.7	37	1.7	9.1	408	2.68E+01	1	A
AUGUSTA ENERGY	3 Combustion Turbine Sets	GA176	1389.968	-610.892	53.4	38	5.8	13.0	370	3.74E+01	1	A
GENERAL CHEMICAL CORPORATION	New Sulfur Burner	GA177	1390.182	-611.590	45.7	39	1.2	15.8	344	1.83E+01	1	A
GENERAL CHEMICAL CORPORATION	Old Burner	GA178	1390.182	-611.590	53.4	39	1.8	9.6	347	0.00E+00	1	A
DSM CHEMICALS NORTH AMERICA	Auxiliary Boiler	GA179	1390.425	-610.391	67.1	37	3.6	7.9	589	8.88E+00	1	A
DSM CHEMICALS NORTH AMERICA	Furnace & Flaker	GA180	1390.425	-610.391	10.7	37	0.8	6.6	616	3.78E-01	1	A
PCS NITROGEN FERTILIZER	Boiler	GA181	1390.420	-610.205	31.7	38	1.5	22.0	643	7.36E+00	1	A
RAYONIER SPECIALTY PULP PRODUCTS	Recovery Furnace No. 6	GA182	1431.545	-805.374	91.5	28	4.9	12.8	451	3.35E-01	1	A
RAYONIER SPECIALTY PULP PRODUCTS	NCG Incinerator	GA183	1431.641	-805.121	41.2	27	1.2	4.6	351	1.01E-02	1	A
RAYONIER SPECIALTY PULP PRODUCTS	Package Boiler	GA184	1431.641	-805.037	76.2	27	4.3	11.8	426	2.73E-01	1	A
KING FINISHING COMPANY	Coal-Fired Boiler	GA185	1423.696	-699.822	44.2	44	1.4	23.5	450	4.41E+01	1	A
KING FINISHING COMPANY	Oil-Fired Boiler No. 1	GA186	1423.964	-699.595	24.4	45	1.2	10.1	505	2.38E+01	1	A
KING FINISHING COMPANY	Oil-Fired Boiler No. 2	GA187	1423.964	-699.595	44.5	45	1.5	13.4	533	4.64E+01	1	A
APAC-GEORGIA	Dryer	GA188	1456.587	-881.013	9.4	6	1.2	26.2	394	7.47E+00	1	A

Table C-3 Georgia Off-Site Sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
UNDERGROUND UTILITY CONTRACTORS	Dryer	GA189	1460.538	-893.461	6.2	1	1.5	9.4	400	5.17E-01	1	A
J. F. CLECKLEY & COMPANY	Burner	GA190	1430.372	-675.720	6.7	37	1.0	29.0	438	7.18E+00	1	A
LIVE OAK COMPANY	Gas Heater	GA191	1464.932	-841.556	18.3	5	0.6	21.3	644	5.04E-03	1	A
LIVE OAK COMPANY	HRSG No. 1	GA192	1465.095	-841.569	47.3	5	5.9	18.1	359	1.63E+00	1	A
LIVE OAK COMPANY	HRSG No. 2	GA193	1465.119	-841.607	47.3	5	5.9	18.1	359	1.63E+00	1	A
MILLENNIUM SPECIALTY CHEMICALS	Boiler No. 1	GA194	1469.135	-860.721	13.7	3	1.1	11.1	589	1.84E-03	2	A
MILLENNIUM SPECIALTY CHEMICALS	Boiler No. 2	GA195	1469.135	-860.721	30.5	3	2.1	3.9	455	6.50E+00	1	A
GILMAN PAPER COMPANY	Multi-Fuel Boiler (SC E01)	GA196	1476.985	-901.163	45.7	4	2.1	13.9	347	-1.15E+00	1	F
APAC-GEORGIA	Burner	GA197	1469.789	-860.293	9.3	3	1.2	24.9	394	2.47E+00	1	A
GILMAN PAPER COMPANY	Coal Boiler No. 1 (SC 16)	GA198	1477.019	-900.743	45.7	5	3.0	33.5	325	-1.15E+02	3	F
GILMAN PAPER COMPANY	Power Boiler No. 5 (SC 17)	GA199	1477.019	-900.743	83.8	5	4.3	9.3	446	-1.39E+01	3	F
NAVAL SUBMARINE SUPPORT BASE	Boiler B4	GA200	1476.138	-894.604	19.5	4	0.5	11.0	533	3.91E-01	1	A
NAVAL SUBMARINE SUPPORT BASE	Boiler G4	GA201	1476.138	-894.604	19.5	4	0.5	11.0	533	4.16E-01	1	A
NAVAL SUBMARINE SUPPORT BASE	Boilers G1-G3	GA202	1476.138	-894.604	19.5	4	1.2	9.1	478	5.67E+00	1	A
NAVAL SUBMARINE SUPPORT BASE	Diesel Generator G6	GA203	1476.138	-894.604	5.5	4	0.5	39.9	611	1.26E-02	1	A
NAVAL SUBMARINE SUPPORT BASE	Diesel Generators D1-D11	GA204	1476.138	-894.604	5.2	4	0.5	42.7	616	2.22E+01	1	A
RHONE POULENCE AG CO.	Boiler	GA205	1474.751	-878.119	45.0	4	1.2	8.0	463	3.24E+01	1	A
RHONE POULENCE AG CO.	Process?	GA206	1474.751	-878.119	15.0	4	1.2	7.0	303	2.14E-01	1	A
UNION CARBIDE AG. PRODUCTS CO.	UNION CARBIDE	GA207	1475.393	-880.662	14.9	3	1.2	7.0	303	2.14E-01	1	A
UNION CARBIDE AG. PRODUCTS CO.	UNION CARBIDE	GA208	1475.393	-880.662	45.1	3	1.2	8.0	463	3.24E+01	1	A
BRUNSWICK PULP & PAPER COMPANY	No. 4 Lime Kiln	GA209	1470.878	-853.336	30.8	1	1.5	12.9	348	-1.51E-01	1	F
BRUNSWICK PULP & PAPER COMPANY	No. 4 Recovery Boiler	GA210	1470.878	-853.336	80.5	1	3.7	13.5	444	-2.52E+01	1	F
BRUNSWICK PULP & PAPER COMPANY	No. 4 Smelt Tank	GA211	1470.878	-853.336	80.5	1	1.4	5.8	339	-9.45E-01	1	F
BRUNSWICK PULP & PAPER COMPANY	No. 5 Lime Kiln (86)	GA212	1470.878	-853.336	64.9	1	2.4	10.6	347	2.90E-01	1	A
BRUNSWICK PULP & PAPER COMPANY	No. 5 Power Boiler	GA213	1470.878	-853.336	1.0	1	1.0	0.001	0.001	2.87E+00	1	A
BRUNSWICK PULP & PAPER COMPANY	No. 6 Recovery Boiler	GA214	1470.878	-853.336	83.5	1	4.3	16.8	461	6.17E-01	1	A
BRUNSWICK PULP & PAPER COMPANY	No. 6 Smelt Tank	GA215	1470.878	-853.336	83.5	1	2.3	6.0	339	7.18E-01	1	A
BRUNSWICK PULP & PAPER COMPANY	TRS Control System	GA216	1470.878	-853.336	1.0	1	1.0	0.001	0.001	2.65E-01	1	A
HERCULES	Boiler B-10	GA217	1474.884	-853.548	53.7	2	3.7	4.5	692	2.88E-02	2	A
HERCULES	Boiler No. 9	GA218	1474.884	-853.548	45.7	2	1.8	14.0	338	1.24E+00	2	A
HERCULES	Heater and B-1	GA219	1474.884	-853.548	6.1	2	0.6	2.5	533	3.40E-01	1	A
HERCULES	Vaporizer	GA220	1474.884	-853.548	18.3	2	0.6	3.9	644	2.14E-01	1	A
FEDERAL LAW ENFORCEMENT TRAINING CENTER	Boilers B1 and B2	GA221	1474.094	-846.532	10.7	6	0.5	6.3	450	2.52E-03	1	A
INTERSTATE PAPER CORPORATION	Multi-fuel Boiler	GA222	1470.681	-788.873	38.7	4	1.7	17.1	338	3.45E+00	1	A
INTERSTATE PAPER CORPORATION	Power Boiler	GA223	1470.712	-789.031	46.0	4	2.0	10.7	457	7.94E+00	1	A
INTERSTATE PAPER CORPORATION	Recovery Boiler	GA224	1470.714	-789.026	46.0	4	2.7	8.3	353	1.01E-01	1	A
INTERSTATE PAPER CORPORATION	Lime Kiln	GA225	1470.714	-788.897	15.2	4	1.5	3.6	348	8.82E-02	1	A
PEACH STATE ASPHALT	Dryer	GA226	1465.100	-716.835	9.1	23	1.0	32.0	391	9.83E-01	1	A
EFFINGHAM COUNTY POWER LLC	Preheater	GA227	1471.683	-727.921	5.9	23	0.6	2.8	714	3.78E-03	1	B
EFFINGHAM COUNTY POWER LLC	Auxiliary Boiler	GA228	1471.885	-728.026	36.6	23	0.7	2.3	499	7.56E-03	1	B
EFFINGHAM COUNTY POWER LLC	Combined-Cycle CTGs	GA229	1471.890	-728.001	50.3	23	5.8	13.4	355	1.66E+00	1	B
DAIMLER CHRYSLER MANUFACTURING	Primer Thermal Oxidizer	GA230	1481.329	-748.949	28.0	5	0.8	14.3	473	1.26E-03	1	B
DAIMLER CHRYSLER MANUFACTURING	Guidecoat Ovens TO	GA231	1481.377	-749.086	28.0	6	0.8	14.3	473	2.52E-03	1	B
DAIMLER CHRYSLER MANUFACTURING	Basecoat Spray Booths	GA232	1481.379	-749.011	40.0	6	4.6	8.9	295	1.26E-03	1	B
DAIMLER CHRYSLER MANUFACTURING	Guidecoat Spray Booths	GA233	1481.374	-748.950	40.0	6	4.3	9.1	295	2.52E-03	1	B
DAIMLER CHRYSLER MANUFACTURING	Clearcoat Spray Booths	GA234	1481.370	-748.899	40.0	5	4.6	9.0	295	1.26E-03	1	B
DAIMLER CHRYSLER MANUFACTURING	Topcoat Ovens TO	GA235	1481.408	-748.959	28.0	6	0.8	14.3	473	1.26E-03	1	B

Table C-3 Georgia Off-Site Sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
DAIMLER CHRYSLER MANUFACTURING	Hot Water Generators 4, 5	GA236	1481.547	-748.704	20.0	4	0.8	12.0	425	2.52E-03	1	B
DAIMLER CHRYSLER MANUFACTURING	Hot Water Generators 1-3	GA237	1481.556	-748.704	20.0	4	0.8	11.9	441	1.13E-02	1	B
FORT JAMES OPERATING CO.	Paper Dryer 19W, EP24	GA238	1478.330	-720.925	31.4	20	1.8	18.3	322	2.27E-03	1	B
FORT JAMES OPERATING CO.	Paper Dryer 19D, EP37	GA239	1478.361	-720.951	31.4	20	1.8	18.3	322	2.27E-03	1	B
FORT JAMES OPERATING CO.	Paper Dryer 18W, EP03	GA240	1478.376	-720.886	31.4	20	1.8	18.3	322	3.15E-03	1	B
FORT JAMES OPERATING CO.	Paper Dryer 18D, EP14	GA241	1478.407	-720.912	31.4	20	1.8	18.3	322	3.15E-03	1	B
FORT JAMES OPERATING CO.	Paper Dryer 17W, EP66	GA242	1478.423	-720.846	31.4	20	1.8	18.3	322	3.15E-03	1	B
FORT JAMES OPERATING CO.	Paper Dryer 17D, EP67	GA243	1478.454	-720.872	31.4	20	1.8	18.3	322	3.15E-03	1	B
FORT JAMES OPERATING CO.	Paper Dryer 17W, EP45	GA244	1478.438	-720.781	31.4	20	1.8	18.3	322	2.90E-03	1	B
FORT JAMES OPERATING CO.	Paper Dryer 16D, EP56	GA245	1478.494	-720.802	31.4	20	1.8	18.3	322	2.90E-03	1	B
FORT JAMES OPERATING CO.	Combustion Turbine CT1	GA246	1478.489	-720.772	50.3	20	3.3	24.7	700	2.42E+00	1	B
FORT JAMES OPERATING CO.	Combustion Turbine CT2	GA247	1478.489	-720.772	50.3	20	3.3	24.7	700	2.42E+00	1	B
FORT JAMES OPERATING CO.	Boiler #3	GA248	1478.514	-720.768	109.0	20	2.2	20.1	419	6.19E+01	1	B
FORT JAMES OPERATING CO.	Boiler #4	GA249	1478.540	-720.763	109.0	20	2.2	20.1	419	4.81E+01	1	B
FORT JAMES OPERATING CO.	Boiler #5	GA250	1478.566	-720.758	109.0	20	2.2	20.1	419	4.81E+01	1	B
FORT JAMES OPERATING CO.	Boiler #6	GA251	1478.574	-720.726	109.0	20	2.2	20.1	419	6.38E+01	1	B
FORT JAMES OPERATING CO.	Package Boiler PB1	GA252	1478.574	-720.726	24.4	20	1.3	17.4	439	6.17E+00	1	B
FORT JAMES OPERATING CO.	Paper Dryer 20D, EP30	GA253	1478.574	-720.726	1.0	20	1.0	0.001	0.001	2.77E-03	1	B
FORT JAMES OPERATING CO.	Paper Dryer 20W, EP28	GA254	1478.574	-720.726	31.4	20	1.8	18.3	340	2.77E-03	1	B
GENPOWER MACINTOSH	Auxiliary Boiler	GA255	1480.485	-729.716	30.5	5	1.2	24.4	450	1.76E-02	1	B
GENPOWER MACINTOSH	Gas Turbine S	GA256	1480.529	-729.769	50.3	5	5.5	20.1	361	5.04E-01	1	B
GENPOWER MACINTOSH	Gas Turbine N	GA257	1480.529	-729.685	50.3	5	5.5	20.1	361	5.04E-01	1	B
PAVE-TEC	Drum Cooler	GA258	1483.817	-747.783	6.7	6	0.8	30.1	411	1.13E-01	1	B
WESTBURY CO.	Dryer	GA259	1482.939	-741.875	6.1	12	0.4	25.9	436	7.81E-01	1	B
GEORGIA-PACIFIC CORP. (PLYWOOD PLANT)	New boiler	GA260	1484.551	-747.717	23.3	3	1.7	3.7	336	1.51E-01	1	B
GEORGIA-PACIFIC CORP. (PLYWOOD PLANT)	Old boiler (removed)	GA261	1484.551	-747.717	1.0	3	1.0	0.001	0.001	-5.92E-01	1	F
EMD CHEMICALS	Drying equipment	GA262	1482.903	-736.072	21.3	6	0.3	19.4	325	8.82E-02	1	B
SAVANNAH ELECTRIC & POWER CO.	CT10A & DB10A	GA263	1479.945	-718.670	48.8	18	5.8	19.4	406	1.36E+01	1	B
SAVANNAH ELECTRIC & POWER CO.	CT10B & DB10B	GA264	1479.982	-718.670	48.8	18	5.8	19.4	406	1.36E+01	1	B
SAVANNAH ELECTRIC & POWER CO.	CT11A & DB11A	GA265	1480.093	-718.673	48.8	18	5.8	19.4	406	1.36E+01	1	B
SAVANNAH ELECTRIC & POWER CO.	CT11B & DB11B	GA266	1480.130	-718.673	48.8	18	5.8	19.4	406	1.36E+01	1	B
SAVANNAH ELECTRIC & POWER CO.	Combustion Turbine 8	GA267	1480.833	-717.767	19.2	12	4.6	36.6	609	7.20E-02	2	B
SAVANNAH ELECTRIC & POWER CO.	Combustion Turbine 7	GA268	1480.846	-717.740	19.2	10	4.6	36.6	609	0.00E+00	2	B
SAVANNAH ELECTRIC & POWER CO.	Combustion Turbine 6	GA269	1480.860	-717.713	19.2	10	4.6	36.6	609	5.50E-02	2	B
SAVANNAH ELECTRIC & POWER CO.	Combustion Turbine 5	GA270	1480.873	-717.685	19.2	8	4.6	36.6	609	0.00E+00	2	B
SAVANNAH ELECTRIC & POWER CO.	Combustion Turbine 4	GA271	1480.886	-717.658	19.2	10	4.6	36.6	609	0.00E+00	2	B
SAVANNAH ELECTRIC & POWER CO.	Combustion Turbine 3	GA272	1480.900	-717.630	19.2	10	4.6	36.6	609	0.00E+00	2	B
SAVANNAH ELECTRIC & POWER CO.	Combustion Turbine 2	GA273	1480.913	-717.602	19.2	12	4.6	36.6	609	4.90E-02	2	B
SAVANNAH ELECTRIC & POWER CO.	Combustion Turbine 1	GA274	1480.927	-717.575	19.2	14	4.6	36.6	609	6.90E-02	2	B
PCS NITROGEN FERTILIZER	New Boiler	GA275	1485.457	-742.124	42.7	3	2.1	10.2	478	1.55E+01	1	B
SAVANNAH ELECTRIC & POWER CO.	Coal-fired Boiler (Unit 1)	GA276	1481.197	-717.641	95.4	15	3.5	25.9	419	1.54E+02	2	B
HERCULES	Boiler SB10	GA277	1486.525	-747.590	11.8	2	0.8	7.6	505	0.00E+00	1	B
APAC-GEORGIA	Dryer	GA278	1488.203	-750.467	9.4	7	1.2	26.2	394	6.44E+00	1	B
GEORGIA-PACIFIC RESINS	Boiler production increase	GA279	1486.335	-739.865	1.0	4	1.0	0.0	478	1.15E+00	1	B
WILLAMETTE INDUSTRIES	Bark Boiler	GA280	1486.773	-740.002	76.2	5	4.3	7.3	477	-7.94E-01	1	F
WILLAMETTE INDUSTRIES	No. 1 Power Boiler	GA281	1486.773	-740.002	30.2	5	1.5	14.0	477	-2.52E-02	1	F
WILLAMETTE INDUSTRIES	No. 2 Lime Kiln	GA282	1486.773	-740.002	30.5	5	1.6	13.5	347	6.26E+00	1	B

Table C-3 Georgia Off-Site Sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
WILLAMETTE INDUSTRIES	No. 3 Power Boiler	GA283	1486.773	-740.002	76.2	5	4.3	7.3	477	5.01E+01	1	B
WILLAMETTE INDUSTRIES	No. 3 Recovery Boiler	GA284	1486.773	-740.002	96.5	5	3.0	16.9	472	6.85E+00	2	B
WILLAMETTE INDUSTRIES	No. 3 Smelt Tank	GA285	1486.773	-740.002	96.5	5	1.0	10.9	355	1.60E+00	1	B
WILLAMETTE INDUSTRIES	No. 4 Power Boiler	GA286	1486.773	-740.002	96.5	5	3.6	16.8	472	4.21E+01	1	B
SAVANNAH SUGAR REFINERY	Coal-Fired Boiler (D)	GA287	1487.323	-740.812	45.7	2	1.9	23.8	344	5.12E+01	1	B
FUJI VEGETABLE OIL INC.	Boiler #1	GA288	1488.565	-744.215	6.7	1	0.5	0.001	0.001	8.06E-01	1	B
FUJI VEGETABLE OIL INC.	Boiler #3	GA289	1488.565	-744.215	8.2	1	0.6	0.001	0.001	2.13E+00	1	B
FUJI VEGETABLE OIL INC.	Boiler #4	GA290	1488.565	-744.215	29.0	1	0.5	0.001	0.001	3.40E-01	1	B
CITERCO	Heater #1	GA291	1489.748	-744.132	12.2	4	0.9	2.0	649	9.58E-01	1	B
INTERNATIONAL PAPER COMPANY	DV5	GA292	1490.045	-745.788	16.8	4	0.9	4.3	644	1.01E+00	1	B
INTERNATIONAL PAPER COMPANY	Incinerator (3 hr/day)	GA293	1490.055	-745.786	30.5	4	0.8	4.3	1033	8.00E+00	1	B
INTERNATIONAL PAPER COMPANY	Recovery Furnace #15	GA294	1490.016	-744.892	106.7	3	4.3	18.3	453	4.02E+01	1	B
INTERNATIONAL PAPER COMPANY	DV4	GA295	1490.186	-745.610	54.9	4	1.4	5.1	477	1.58E+01	1	B
INTERNATIONAL PAPER COMPANY	Smelt Tank #15	GA296	1490.076	-744.890	83.5	3	3.0	18.3	345	1.44E+00	1	B
INTERNATIONAL PAPER COMPANY	TRS Incineration (PB13)	GA297	1490.075	-744.813	106.7	3	3.0	23.9	447	4.60E-01	2	B
INTERNATIONAL PAPER COMPANY	Lime Kiln #7	GA298	1490.285	-744.578	82.3	4	1.8	15.5	505	4.16E-01	1	B
INTERNATIONAL PAPER COMPANY	Recovery Furnace #12	GA299	1490.337	-744.573	71.3	4	1.8	21.6	437	-3.03E+01	1	F
INTERNATIONAL PAPER COMPANY	Smelt Tank #12	GA300	1490.337	-744.573	70.2	4	1.5	6.1	341	-8.69E-01	1	F
INTERNATIONAL PAPER COMPANY	Lime Kilns #4, 5, & 6	GA301	1490.357	-744.549	41.5	4	1.4	17.5	339	-2.77E-01	1	F
INTERNATIONAL PAPER COMPANY	Recovery Furnace #13	GA302	1490.451	-744.532	71.3	4	1.8	20.2	420	-2.90E+01	1	F
INTERNATIONAL PAPER COMPANY	Smelt Tank #13	GA303	1490.451	-744.532	70.3	4	1.5	5.8	342	-8.32E-01	1	F
ENGELHARD CORPORATION	Boilers ST3	GA304	1494.880	-746.963	5.5	1	0.5	34.0	477	1.26E-01	1	B
ENGELHARD CORPORATION	Calciner ST2	GA305	1494.880	-746.963	20.4	1	1.6	11.1	344	1.01E-01	1	B
ENGELHARD CORPORATION	Secondary Dryers ST4	GA306	1494.880	-746.963	15.9	1	1.5	16.6	408	1.73E+00	1	B
ENGELHARD CORPORATION	Spray Dryer ST1	GA307	1494.880	-746.963	19.8	1	1.5	19.1	366	1.23E+00	1	B
CPV TERRAPIN	Combustion Turbine #3	GA308	1496.084	-747.064	60.4	3	5.5	12.3	342	5.73E+00	1	B
CPV TERRAPIN	Combustion Turbine #2	GA309	1496.117	-747.066	60.4	3	5.5	12.3	342	5.73E+00	1	B
CPV TERRAPIN	Combustion Turbine #1	GA310	1496.187	-747.069	60.4	3	5.5	12.3	342	5.73E+00	1	B
CPV TERRAPIN	Heater	GA311	1496.221	-746.941	21.3	3	0.4	18.3	422	1.26E-02	1	B
G-P GYPSUM CORP.	Gas Turbines T1 & T2	GA312	1497.284	-747.009	11.0	8	0.6	45.7	733	8.19E-01	1	B
SAVANNAH ENERGY SYSTEM CO.	Unit 1	GA313	1499.596	-746.386	45.7	2	1.4	30.3	408	3.91E+00	1	B
SAVANNAH ENERGY SYSTEM CO.	Unit 2	GA314	1499.596	-746.386	45.7	2	1.4	30.3	408	3.91E+00	1	B
KERR-McGEE PIGMENTS	Boiler #5	GA315	1499.870	-745.230	13.0	1	1.9	6.4	450	-1.74E+00	1	F
KERR-McGEE PIGMENTS	Boiler B-1	GA316	1499.870	-745.230	22.7	1	1.5	13.7	436	1.06E+01	1	B
KERR-McGEE PIGMENTS	Boilers 1-4	GA317	1499.870	-745.230	12.5	1	1.5	7.9	533	-1.97E+00	1	F
KERR-McGEE PIGMENTS	Chloride Scrubber	GA318	1499.870	-745.230	61.0	1	0.6	5.8	300	7.56E-01	1	B
KERR-McGEE PIGMENTS	Incinerator	GA319	1499.870	-745.230	27.4	1	1.4	10.4	1139	7.94E+00	1	B
KERR-McGEE PIGMENTS	Ore Dryers 1A & 12A	GA320	1499.870	-745.230	18.3	1	0.6	10.7	408	7.56E-01	1	B
KERR-McGEE PIGMENTS	Rotary Dryer	GA321	1499.870	-745.230	12.2	1	0.7	22.0	372	7.56E-01	1	B
KERR-McGEE PIGMENTS	Spray Dryer 4A	GA322	1499.870	-745.230	25.9	1	1.4	11.2	383	1.76E+00	1	B
SOUTHERN LNG	Gas Heater (HS02)	GA323	1502.367	-744.180	5.3	3	0.4	1.7	505	1.26E-04	1	B
SOUTHERN LNG	Boiler (BS01)	GA324	1502.370	-744.192	6.1	3	0.6	5.9	505	5.54E-02	1	B
SOUTHERN LNG	Gas Heater (HS01)	GA325	1502.370	-744.185	5.3	3	0.4	1.7	505	1.26E-04	1	B
SOUTHERN LNG	LNG Vaporizer (VS08)	GA326	1502.375	-744.108	23.5	3	1.3	8.2	290	8.82E-03	1	B
SOUTHERN LNG	LNG Vaporizer (VS07)	GA327	1502.382	-744.117	23.5	3	1.3	8.2	290	8.82E-03	1	B
SOUTHERN LNG	LNG Vaporizer (VS06)	GA328	1502.390	-744.127	23.5	3	1.3	8.2	290	8.82E-03	1	B
SOUTHERN LNG	LNG Vaporizer (VS03)	GA329	1502.398	-744.140	23.5	3	1.5	4.1	290	6.55E-03	1	B

Table C-3 Georgia Off-Site Sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
SOUTHERN LNG	LNG Vaporizer (VS02)	GA330	1502.405	-744.149	23.5	4	1.5	8.2	290	1.26E-02	1	B
SOUTHERN LNG	LNG Vaporizer (VS01)	GA331	1502.412	-744.161	23.5	3	1.5	8.2	290	1.26E-02	1	B
SOUTHERN LNG	Comp. Engine (CS01)	GA332	1502.439	-744.111	5.7	5	0.3	41.1	735	6.30E-04	1	B
SOUTHERN LNG	Gen. Engine (GS01)	GA333	1502.534	-744.166	9.4	5	0.6	41.8	761	2.02E-03	1	B
SOUTHERN LNG	Gen. Engine (GS02)	GA334	1502.538	-744.171	9.4	5	0.6	41.8	761	2.02E-03	1	B
SOUTHERN LNG	Gen. Turbine (GS03)	GA335	1502.541	-744.175	8.4	5	1.0	10.2	715	1.76E-02	1	B
SOUTHERN LNG	Gen. Turbine (GS04)	GA336	1502.543	-744.179	8.4	5	1.0	10.2	715	1.76E-02	1	B
GREAT SOUTHERN PAPER CO. (GEORGIA-PACIFIC)	Recovery Boilers 1&2	GA337	1133.459	-904.756	61.0	46	3.7	27.6	463	5.44E+01	1	B
GREAT SOUTHERN PAPER CO. (GEORGIA-PACIFIC)	Smelt Tank 3	GA338	1133.459	-904.756	75.6	45	1.8	7.0	336	6.93E+00	1	B
GREAT SOUTHERN PAPER CO. (GEORGIA-PACIFIC)	Smelt Tank 1 - Baseline	GA339	1133.474	-904.758	49.1	44	1.2	7.8	341	-6.30E-01	1	F
GREAT SOUTHERN PAPER CO. (GEORGIA-PACIFIC)	Smelt Tank 1 - Future	GA340	1133.474	-904.758	58.2	44	1.5	7.8	341	6.93E-01	1	B
GREAT SOUTHERN PAPER CO. (GEORGIA-PACIFIC)	Smelt Tank 2 - Baseline	GA341	1133.475	-904.747	49.1	44	1.5	7.9	343	-6.30E-01	1	F
GREAT SOUTHERN PAPER CO. (GEORGIA-PACIFIC)	Smelt Tank 2 - Future	GA342	1133.475	-904.747	58.2	44	1.5	7.9	343	6.93E-01	1	B
GREAT SOUTHERN PAPER CO. (GEORGIA-PACIFIC)	Lime Kiln 2	GA343	1133.534	-904.480	25.0	34	1.8	9.7	355	2.32E+00	1	B
GREAT SOUTHERN PAPER CO. (GEORGIA-PACIFIC)	Lime Kiln 1	GA344	1133.550	-904.488	25.0	34	1.8	9.7	355	2.32E+00	1	B
LONGLEAF ENERGY ASSOCIATES	Auxiliary Boiler	GA345	1134.514	-897.086	68.6	61	1.5	18.1	628	1.15E+00	1	B
LONGLEAF ENERGY ASSOCIATES	Unit 2 Boiler	GA346	1134.648	-897.074	140.2	65	7.3	18.2	347	9.29E+01	1	B
LONGLEAF ENERGY ASSOCIATES	Unit 1 Boiler	GA347	1134.648	-897.066	140.2	65	7.3	18.2	347	9.29E+01	1	B
BIBB COMPANY	Boilers 7 & 8	GA348	1123.850	-756.880	10.7	104	0.6	12.8	505	3.21E+00	1	B
U. S. ARMY INFANTRY CENTER	Boiler B2	GA349	1127.357	-773.348	11.0	103	0.9	5.5	541	1.13E+00	1	B
U. S. ARMY INFANTRY CENTER	Boiler KH3	GA350	1127.357	-773.348	13.4	103	0.9	2.2	450	1.12E+00	1	B
U. S. ARMY INFANTRY CENTER	Boilers MH1 & MH2	GA351	1127.357	-773.348	19.5	103	0.9	2.5	450	2.51E+00	1	B
CATAULA GENERATING COMPANY	Turbines T1-T4	GA352	1128.689	-743.235	25.9	157	5.5	45.5	767	5.32E+01	1	B
PEACE VALLEY GENERATION CO.	Auxiliary Boiler	GA353	1129.825	-744.091	33.5	182	0.9	19.9	439	1.39E-01	1	B
PEACE VALLEY GENERATION CO.	Comb-Cycle Turbines (4)	GA354	1129.825	-744.091	51.8	182	5.5	12.8	355	7.56E+00	1	B
PEACE VALLEY GENERATION CO.	Simple-Cycle Tur. (2)	GA355	1129.825	-744.091	33.5	182	5.8	26.8	793	2.82E+00	1	B
OGLETHORPE POWER CORPORATION	CT1	GA356	1150.352	-743.081	27.4	164	5.5	24.4	766	1.44E-02	1	B
OGLETHORPE POWER CORPORATION	CT2	GA357	1150.348	-743.052	27.4	163	5.5	24.4	766	1.44E-02	1	B
OGLETHORPE POWER CORPORATION	CT3	GA358	1150.345	-743.023	27.4	162	5.5	24.4	766	1.44E-02	1	B
OGLETHORPE POWER CORPORATION	CT4	GA359	1150.342	-742.994	27.4	161	5.5	24.4	766	1.44E-02	1	B
OGLETHORPE POWER CORPORATION	CT5	GA360	1150.338	-742.965	27.4	160	5.5	24.4	766	9.14E+00	1	B
OGLETHORPE POWER CORPORATION	CT6	GA361	1150.335	-742.936	27.4	160	5.5	24.4	766	9.14E+00	1	B
OGLETHORPE POWER CORPORATION	Heater 1	GA362	1150.407	-743.053	5.8	165	0.5	26.0	811	4.28E-03	1	B
OGLETHORPE POWER CORPORATION	Heater 2	GA363	1150.400	-742.995	5.8	161	0.5	26.0	811	4.28E-03	1	B
OGLETHORPE POWER CORPORATION	Heater 3	GA364	1150.393	-742.937	5.8	162	0.5	26.0	811	4.28E-03	1	B
ENGELHARD CORPORATION	Flash Dryer #3	GA365	1196.970	-945.247	36.6	54	0.9	11.3	422	3.53E+00	1	B
ENGELHARD CORPORATION	Flash Dryers #4 & #5	GA366	1196.970	-945.247	39.6	54	0.8	15.2	403	9.32E+00	1	B
ENGELHARD CORPORATION	No. 6 Boiler	GA367	1196.970	-945.247	30.5	54	1.8	1.7	533	1.81E+01	1	B
DUKE ENERGY BAKER	Combustion Turbine No. 1	GA368	1198.259	-875.297	28.4	54	4.6	39.7	784	7.56E+00	1	B
DUKE ENERGY BAKER	Combustion Turbine No. 2	GA369	1198.254	-875.250	28.4	54	4.6	39.7	784	7.56E+00	1	B
DUKE ENERGY BAKER	Combustion Turbine No. 3	GA370	1198.252	-875.230	28.4	54	4.6	39.7	784	7.56E+00	1	B
DUKE ENERGY BAKER	Combustion Turbine No. 4	GA371	1198.246	-875.183	28.4	55	4.6	39.7	784	7.56E+00	1	B
DUKE ENERGY BAKER	Combustion Turbine No. 5	GA372	1198.244	-875.163	28.4	55	4.6	39.7	784	7.56E+00	1	B
DUKE ENERGY BAKER	Combustion Turbine No. 6	GA373	1198.239	-875.116	28.4	55	4.6	39.7	784	7.56E+00	1	B
DUKE ENERGY BAKER	Combustion Turbine No. 7	GA374	1198.236	-875.096	28.4	55	4.6	39.7	784	7.56E+00	1	B
DUKE ENERGY BAKER	Combustion Turbine No. 8	GA375	1198.231	-875.049	28.4	54	4.6	39.7	784	7.56E+00	1	B
DAVIDSON EXTERIOR TRIM	Boilers	GA376	1203.678	-796.203	14.0	115	0.5	7.6	478	8.09E+00	1	B

Table C-3 Georgia Off-Site Sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
REEVES CONSTRUCTION COMPANY	New Drum Mixer	GA377	1212.485	-843.317	9.8	67	1.1	30.8	405	1.46E+01	1	B
M&M/MARS	Boiler (B2)	GA378	1214.022	-851.138	8.8	59	0.9	12.5	505	1.15E+01	1	B
GEORGIA-PACIFIC CORPORATION	Wood-waste Boiler	GA379	1215.414	-845.184	9.1	62	0.6	27.4	505	2.90E-01	1	B
COATS & CLARK	Coal-fired Boiler	GA380	1217.776	-847.118	18.3	65	1.8	5.2	450	3.64E+00	1	B
PECAN GROVE GENERATING	Auxiliary Boiler No. 1	GA381	1223.293	-870.423	22.9	61	0.6	24.3	450	2.84E-02	1	B
PECAN GROVE GENERATING	HRSG Stack No. 2	GA382	1223.307	-870.462	45.7	61	4.6	33.3	411	1.26E+01	1	B
PECAN GROVE GENERATING	HRSG Stack No. 1	GA383	1222.953	-867.418	45.7	61	4.6	33.3	411	1.26E+01	1	B

1. SO₂ Emission rate based on PSD Increment Spreadsheet downloaded from Georgia EPD website and Major.xls and minor.xls spreadsheets provided by Georgia EPD
2. Actual SO₂ Emission rates taken from Georgia 2005 NEI database as provided by Georgia EPD.
3. The Gilman Paper Company has been shut down, therefore its emissions are included in the negative source emissions modelling bin (Bin F)

Note: The Calpuff Model is limited to 200 Sources. The bin group letter references the bin group in which the sources were modeled.

Table C-4 South Carolina Off-Site Sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
US Marines-MCRD Parris Island	CPP4 Boiler 4	SC001	1527.280	-710.030	19.8	8	1.0	12.0	491	-4.62E-01	1	F
US Marines-MCRD Parris Island	WPP5 Boiler 5	SC002	1524.647	-712.795	10.7	10	0.5	11.8	491	-4.77E+00	1	F
US Marines-MCRD Parris Island	WPP6 Boiler 6	SC003	1524.649	-712.792	10.7	10	0.7	7.8	491	7.47E+00	1	B
US Marines-MCRD Parris Island	WPP7 Boiler 7	SC004	1524.654	-712.786	10.7	10	0.7	7.8	496	7.47E+00	1	B
US Marines Corps Air Station	FC1/2 - boilers 1&2	SC005	1520.585	-698.555	22.3	12	1.2	0.010	405	1.12E-02	1	B
US Marines Corps Air Station	FC3 - boiler 3	SC006	1522.331	-697.562	7.6	4	0.3	0.010	422	2.16E-01	1	B
US Marines Corps Air Station	Microturbines	SC007	1520.579	-698.572	2.1	12	0.3	15.6	350	1.04E-01	1	B
US Marines Corps Air Station	TS5 - T10 Test Cell Stack 1	SC008	1519.152	-697.344	12.2	35	4.2	4.6	368	6.04E-01	1	B
US Marines Corps Air Station	TS5 - T10 Test Cell Stack 2	SC009	1519.152	-697.344	12.2	35	4.2	29.9	637	6.04E-01	1	B
Santee Cooper - Hilton Head	Unit 3	SC010	1527.479	-726.021	9.8	10	4.6	36.6	805	4.45E+01	1	B
PHB/Parker Die Castings	aluminum remelt	SC011	1515.828	-697.084	6.1	40	2.4	0.5	339	-5.04E-04	1	F
ArrMaz Custom Chemicals	HOHST	SC012	1517.848	-688.410	4.4	19	0.4	0.010	422	1.50E-01	1	B
ArrMaz Custom Chemicals	Main Scrubber	SC013	1517.793	-688.658	25.3	20	0.6	14.6	300	1.33E-02	1	B
Ulmer Brothers Inc.	incinerator	SC014	1512.589	-726.029	2.4	20	5.6	0.009	811	1.13E+00	1	B
Malphrus Construction Co.	Diesel Engine	SC015	1513.697	-724.730	2.7	20	0.1	45.3	789	1.01E-02	1	B
Malphrus Construction Co.	incinerator	SC016	1513.697	-724.730	3.0	20	6.0	0.9	811	5.51E-02	1	B
Hilton Head No. 1 Public Service District	Generator 1	SC017	1527.413	-725.674	4.2	12	13.8	0.010	711	6.84E-02	1	B
Hilton Head No. 1 Public Service District	Generator 2	SC018	1527.413	-725.674	3.7	12	12.0	0.010	794	7.98E-02	1	B
Resort Services, Inc.	boiler 3	SC019	1510.225	-725.223	10.7	20	0.5	15.2	478	1.60E+00	1	B
Beaufort Memorial Hospital	Boiler 01A	SC020	1524.573	-703.066	15.0	6	0.6	0.010	450	-3.15E-01	1	F
Beaufort-Jasper Water & Sewage	CB#1	SC021	1508.654	-711.494	4.9	15	0.2	89.3	672	4.73E-01	1	B
Beaufort-Jasper Water & Sewage	CB#2	SC022	1508.668	-711.511	6.1	14	0.2	150.6	821	8.01E-01	1	B
Beaufort-Jasper Water & Sewage	Generator	SC023	1508.677	-711.488	5.0	15	0.2	0.009	672	4.73E-01	1	B
SIPSD (Reclaimed Water Plant)	Generator #1	SC024	1521.780	-735.715	5.6	4	0.4	43.9	753	9.36E-02	1	B
Hilton Head #1 - Leg-O-Mutton Road Well	Diesel Generator	SC025	1526.141	-726.282	2.2	13	0.1	0.010	794	5.90E-02	1	B
Hilton Head #1 - Royal James Drive Facility	Diesel Generator	SC026	1523.693	-723.047	2.7	15	0.1	77.9	700	1.39E-01	1	B
SIPSD Reverse Osmosis Plant	Generator #1 1100 KW	SC027	1523.554	-733.602	6.6	10	0.4	53.9	0	7.52E-02	1	B
Daufuskie Island P&H Inc.	Air Curtain Incinerator	SC028	1512.613	-739.657	2.3	10	3.1	1.5	607	8.82E-02	1	B
Target Store 1298	Diesel Generator	SC029	1514.228	-723.619	7.2	11	0.3	52.1	726	4.03E-02	1	B
Plusa, Inc. (Prouvost USA)	Boiler 2 Stack	SC030	1598.761	-590.401	19.8	22	0.9	4.6	478	5.33E-01	1	B
Prouvost USA	Boiler 3	SC031	1598.761	-590.401	19.8	22	1.2	4.6	464	4.89E-01	1	B
SCE&G Williams	Boiler	SC032	1582.267	-624.139	122.0	10	7.0	27.6	403	9.08E+01	1	B
Lanxess	EXITBOIL	SC033	1582.602	-627.797	45.7	14	1.5	31.6	450	5.90E+01	1	B
Albany Int'l-Press Fabrics	Boiler #2	SC034	1574.078	-580.718	9.1	65	0.6	6.0	505	-3.67E+00	1	F
Albany Int'l-Press Fabrics	Boiler #3	SC035	1574.101	-580.757	23.7	61	0.3	34.1	489	4.32E+00	1	B
Albany Int'l-Press Fabrics	Boiler #4	SC036	1574.148	-580.753	9.8	58	0.6	5.2	589	-2.75E+00	1	F
Albany Int'l-Press Fabrics	Boiler #5	SC037	1574.096	-580.751	23.1	62	0.6	6.6	350	1.15E+00	1	B
Naval Weapons Station	Bldg 3107 Boiler #1	SC038	1580.017	-637.070	7.3	36	11.8	0.010	450	7.42E-01	1	B
Naval Weapons Station	Bldg 3107 Boiler #2	SC039	1580.014	-637.074	7.3	36	11.8	0.010	450	7.42E-01	1	B
Naval Weapons Station	Paint Booth Bldg 1659	SC040	1582.500	-631.789	9.3	26	1.1	13.2	294	8.57E-04	1	B
Alcoa - Mt. Holly	Anode Former Coke Scrub	SC041	1570.190	-622.795	48.5	32	1.1	19.5	322	1.60E-01	1	B
Alcoa - Mt. Holly	Baked Carbon Plant	SC042	1570.247	-622.665	61.3	29	1.4	26.5	353	8.49E+00	1	B
Alcoa - Mt. Holly	Cast House #50	SC043	1569.643	-622.988	18.3	38	1.2	12.3	295	1.13E-03	1	B
Alcoa - Mt. Holly	Cast House #51	SC044	1569.659	-623.013	20.4	39	0.9	12.2	533	1.02E-02	1	B
Alcoa - Mt. Holly	Cast House #52	SC045	1569.689	-623.045	17.4	40	0.6	0.010	366	5.42E-03	1	B
Alcoa - Mt. Holly	Cast House #64	SC046	1569.590	-623.039	17.7	37	1.0	0.3	0	1.64E-03	1	B
Alcoa - Mt. Holly	Diesel Fire Pump	SC047	1569.906	-623.048	6.1	41	0.1	27.2	422	6.55E-02	1	B

Table C-4 South Carolina Off-Site Sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
Alcoa - Mt. Holly	Scrubber Lines	SC048	1569.810	-622.780	61.0	29	3.2	23.5	353	1.07E+02	1	B
The Gates Rubber Company	Boiler #3	SC049	1571.931	-605.538	15.2	58	0.6	11.1	478	1.34E+00	1	B
The Gates Rubber Company	Coaters/Oxidize	SC050	1572.018	-605.373	19.2	55	0.7	9.5	543	2.02E-02	1	B
The Gates Rubber Company	Evaporator	SC051	1571.915	-605.453	7.6	56	0.5	0.010	295	2.86E-01	1	B
BP-Amoco Cooper River	#1 Ox Compressors	SC052	1587.254	-628.126	3.0	32	0.2	104.5	686	4.23E+00	1	B
BP-Amoco Cooper River	Emergency Generator #3	SC053	1587.169	-628.389	1.8	28	0.1	59.1	803	1.79E-01	1	B
BP-Amoco Cooper River	Boilers #1&2	SC054	1587.594	-628.190	30.5	33	2.1	11.9	416	-1.40E+02	1	F
BP-Amoco Cooper River	Boilers #3&4	SC055	1587.605	-628.250	30.5	29	1.9	12.2	405	1.20E+01	1	B
BP-Amoco Cooper River	ITEGEN	SC056	1587.515	-628.678	2.7	7	0.2	66.3	915	2.02E-01	1	B
BP-Amoco Cooper River	UT Compressor #2	SC057	1587.510	-628.215	3.0	32	0.3	64.9	683	2.94E-01	1	B
BP-Amoco Cooper River	WWT Compressors	SC058	1586.315	-628.600	3.0	14	0.1	104.5	686	7.56E-01	1	B
Santee Cooper - Cross	Unit 1	SC059	1558.065	-589.165	182.9	77	6.7	25.9	339	2.23E+02	1	B
Santee Cooper - Cross	Unit 2	SC060	1558.065	-589.165	182.9	77	6.7	21.3	339	3.93E+02	1	B
JW ALUMINUM	ANNEALING #11	SC061	1570.804	-624.951	14.9	39	0.7	3.1	408	1.26E-03	1	B
JW ALUMINUM	ANNEALING #1-10	SC062	1570.661	-624.977	13.7	40	0.5	5.1	408	1.26E-02	1	B
JW ALUMINUM	Coating Line #1	SC063	1570.887	-625.014	13.7	39	0.9	12.8	323	8.40E-05	1	B
JW ALUMINUM	HOLD FURNACE #1-5	SC064	1570.622	-625.029	21.3	41	0.6	9.8	515	3.78E-03	1	B
JW ALUMINUM	MELT FURNACE #1-4	SC065	1570.624	-625.036	25.9	41	1.4	15.9	1156	3.20E+00	1	B
Santee Cooper	Incinerator	SC066	1573.764	-605.265	6.1	50	0.3	0.010	783	-8.69E-02	1	F
SC Pipeline Corp.	Backup	SC067	1581.505	-623.865	7.6	9	0.6	0.010	344	1.26E-03	1	B
Berkeley Co. Water & Sanitatio	emergency generator	SC068	1580.125	-631.876	4.9	13	0.4	53.7	840	1.03E+00	1	B
Berkeley Co. Water & Sanitation Authority	CF-13 (Flare #13)	SC069	1568.794	-614.347	6.1	52	1.0	0.001	0.001	1.50E-01	1	C
Berkeley Co. Water & Sanitation Authority	Trommel Screen Engine	SC070	1568.794	-614.347	5.2	52	0.1	62.2	783	4.54E-03	1	C
Berkeley Co. Water & Sanitation Authority	Tub Grinder Loader Engine	SC071	1568.794	-614.347	3.4	52	0.1	46.6	758	2.77E-02	1	C
Berkeley Co. Water & Sanitation Authority	Tub Grinder Main Engine	SC072	1568.794	-614.347	1.7	52	0.2	93.0	755	5.04E-02	1	C
Nucor Steel	Annealing Furnaces	SC073	1586.816	-625.213	26.1	29	1.0	0.001	0.001	9.10E-03	1	C
Nucor Steel	Baghouse	SC074	1586.218	-624.883	45.7	25	5.2	20.8	339	4.10E+00	1	C
Nucor Steel	Baghouse	SC075	1586.102	-624.783	53.4	30	6.4	29.1	408	1.23E+01	1	C
Nucor Steel	Beam Mill Roof Monitor	SC076	1586.345	-625.026	38.6	30	1.0	0.001	0.001	7.56E-03	1	C
Nucor Steel	Galvanizing Furnace Stack	SC077	1586.752	-625.288	39.6	27	2.1	7.5	644	6.30E-03	1	C
Nucor Steel	Melt Shop Roof Monitor	SC078	1586.412	-624.921	38.6	30	1.0	0.001	0.001	1.20E-02	1	C
Nucor Steel	Pickle Line #1 Boiler	SC079	1586.809	-625.132	22.8	30	0.6	10.7	561	2.27E-03	1	C
Nucor Steel	Pickle Line No. 2 Boilers	SC080	1586.952	-625.113	22.9	30	0.6	10.7	561	2.31E-03	1	C
Nucor Steel	Reheat Furnace	SC081	1586.406	-625.131	45.7	32	2.3	12.5	811	1.40E-02	1	C
Nucor Steel	Tundish Dryer Monitor	SC082	1586.432	-624.982	38.6	31	1.0	0.001	0.001	1.20E-03	1	C
Nucor Steel	Tunnel Furnace 1 Stack 1	SC083	1586.487	-624.902	34.3	31	2.3	8.2	839	6.05E-03	1	C
Nucor Steel	Tunnel Furnace 1 Stack 2	SC084	1586.578	-624.913	34.3	31	2.3	8.2	839	3.81E-03	1	C
Nucor Steel	Tunnel Furnace 2	SC085	1586.482	-624.967	34.3	31	2.3	8.2	839	6.05E-03	1	C
Nucor Steel	Tunnel Furnace No. 1	SC086	1586.536	-624.929	16.8	31	1.0	0.001	0.001	1.51E-03	1	C
Nucor Steel	Tunnel Furnace No. 2	SC087	1586.534	-624.949	16.8	31	1.0	0.001	0.001	1.51E-03	1	C
Nucor Steel	Vacuum Tank Boiler	SC088	1586.446	-624.907	43.1	30	0.9	12.1	505	3.78E-03	1	C
Air Liquide Large	Vaporization Boiler #1	SC089	1587.197	-624.541	3.8	31	1.1	0.010	478	1.51E-03	1	C
Air Liquide Large	Vaporization Boiler #2	SC090	1587.164	-624.528	10.7	31	0.3	0.009	530	3.78E-03	1	C
Fortifiber Coporation	Air Dryer	SC091	1593.195	-633.034	9.1	10	0.4	27.1	517	7.56E-04	1	C
Santee River Rubber Co.	Air Dryer	SC092	1593.195	-633.034	21.3	10	1.1	0.009	351	1.26E-04	1	C
Santee River Rubber Co.	Primary Dryer	SC093	1593.195	-633.034	21.3	10	1.4	0.009	330	1.26E-04	1	C
Santee River Rubber Co.	Secondary Dryer	SC094	1593.195	-633.034	18.3	10	1.1	0.009	324	1.26E-04	1	C

Table C-4 South Carolina Off-Site Sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
Corning, Inc.	Annealing Furnaces & Heaters	SC095	1567.693	-626.550	13.7	38	1.0	17.8	450	1.64E-03	1	C
Corning, Inc.	Boiler 1 (EP-8)	SC096	1567.693	-626.550	15.2	38	0.7	6.7	505	1.44E-03	1	C
Corning, Inc.	Boiler 2 (EP-9)	SC097	1567.693	-626.550	15.2	38	0.7	6.7	505	1.44E-03	1	C
Corning, Inc.	Emergency Generator (EP-7)	SC098	1567.693	-626.550	13.1	38	0.2	46.4	755	1.20E-01	1	C
Corning, Inc.	Furnace 3 (EP-1)	SC099	1567.693	-626.550	22.9	38	1.0	30.1	380	6.80E-04	1	C
Corning, Inc.	Furnaces 1 and 2 (EP-2)	SC100	1567.693	-626.550	22.9	38	1.5	30.0	380	1.36E-03	1	C
Detyens Shipyard	3 mobile hydroblasting units	SC101	1593.143	-632.686	5.8	5	1.0	0.001	0.001	6.80E-02	1	C
DAK Americas LLC	Boiler 1	SC102	1580.083	-620.125	45.7	20	1.5	10.7	433	1.77E-01	1	C
DAK Americas LLC	Boiler 2	SC103	1580.074	-620.110	45.7	21	1.5	13.0	433	1.77E-01	1	C
DAK Americas LLC	Vaporizers 1-4	SC104	1580.102	-620.131	45.7	20	1.3	4.6	605	8.13E+00	1	C
Williams Technology	Dyno1 - Engine Testing	SC105	1562.630	-626.491	4.6	77	0.1	0.010	325	1.26E-03	1	C
Williams Technology	Dyno2 - Engine Testing	SC106	1562.634	-626.493	4.6	77	0.1	0.010	325	1.26E-03	1	C
Williams Technology	PRW-1 Pressure Washer	SC107	1562.581	-626.464	9.5	77	0.3	0.010	322	3.78E-05	1	C
Williams Technology	PW-1 Parts Washer	SC108	1562.590	-626.460	9.6	77	0.2	0.010	339	2.52E-05	1	C
Williams Technology	PW-2 Parts Washer	SC109	1562.590	-626.460	9.6	77	0.2	0.010	339	1.26E-05	1	C
Williams Technology	SH1-8 Space Heaters	SC110	1562.575	-626.442	1.0	76	1.0	0.001	0.001	5.04E-05	1	C
Kemira	600.000	SC111	1582.695	-627.922	15.2	15	1.1	15.9	323	2.10E-02	1	C
American-LaFrance	Paint Booths (P1-P9)	SC112	1544.857	-622.094	17.6	69	1.2	13.7	297	2.52E-03	1	C
Collum's Lumber Mill	Woodwaste Boiler	SC113	1499.884	-578.591	18.3	173	0.5	22.0	505	1.68E-02	1	C
Devro-Teepak	Gas Boiler	SC114	1476.157	-554.321	15.2	195	0.9	0.010	421	3.99E-03	1	C
Worthington Custom Plastics	Air Make-up Units	SC115	1492.956	-566.089	13.7	242	0.2	9.1	450	6.68E-04	1	C
Worthington Custom Plastics	Plant Heater #1&2	SC116	1492.948	-566.101	15.2	242	0.3	6.7	450	5.17E-04	1	C
Worthington Custom Plastics	Washer Heater #1,2&3	SC117	1492.952	-566.095	13.7	242	0.2	10.7	478	8.06E-04	1	C
Trinity Industries, Inc.	Stack 1-Kettle Furnace	SC118	1494.038	-565.487	11.0	230	0.7	5.8	866	5.17E-04	1	C
Columbia Energy Center	Auxiliary Boiler 1&2	SC119	1465.660	-549.568	45.7	150	1.7	21.3	450	5.29E+00	1	C
Columbia Energy Center	Auxiliary Boiler 3	SC120	1465.683	-549.592	45.7	151	2.1	20.2	426	3.99E+00	1	C
Columbia Energy Center	Combustion Turbine 1&2	SC121	1465.622	-549.606	61.0	155	5.8	19.7	393	2.49E+01	1	C
MeadWestvaco	KREC004 Recovery Boiler #1	SC122	1581.085	-638.076	125.3	11	3.5	20.9	437	6.03E+01	1	C
MeadWestvaco	KREC005 East SDTV #1	SC123	1581.097	-638.068	78.7	11	1.2	9.0	350	9.30E-01	1	C
MeadWestvaco	KREC006 West SDTV #1	SC124	1581.085	-638.063	78.7	11	1.2	9.0	350	9.30E-01	1	C
MeadWestvaco	Temp Mobile Chip Screen	SC125	1580.772	-637.938	2.3	9	0.1	0.010	450	1.10E-02	1	C
MeadWestvaco	Temp Mobile Bark Screen	SC126	1580.586	-638.105	2.3	5	0.1	0.010	450	1.10E-02	1	C
MeadWestvaco	No. 4 Lime Kiln	SC127	1580.961	-637.957	34.8	10	1.8	8.0	340	4.65E-01	1	C
MeadWestvaco	No. 5 Lime Kiln	SC128	1580.882	-637.946	64.9	10	1.8	17.8	449	2.72E+00	1	C
MeadWestvaco	PB5 Power Boiler 5	SC129	1581.245	-638.049	47.9	7	2.3	26.8	350	-8.79E-01	1	F
MeadWestvaco	TALLSTK	SC130	1581.217	-638.066	91.8	8	3.4	31.7	441	-1.18E+02	1	F
Rhodia	Boiler #1	SC131	1582.432	-645.040	12.2	11	0.6	14.1	450	1.60E-01	1	C
Rhodia	Boiler #2	SC132	1582.436	-645.048	19.8	11	1.4	3.7	450	8.92E+00	1	C
Rhodia	old Boiler #1&2	SC133	1582.436	-645.048	19.8	11	1.4	6.4	450	-1.61E+01	1	F
Rhodia	Thermal Oxidizer Unit	SC134	1582.615	-645.108	19.2	10	0.9	7.6	331	4.28E-01	1	C
Allied Terminal	Daniels Heater	SC135	1584.031	-645.762	15.2	15	0.8	10.1	672	1.65E+00	1	C
Allied Terminal	Superior Boiler	SC136	1584.028	-645.797	17.8	15	0.5	8.0	522	2.75E+00	1	C
RM Engineered Products	Boiler 2	SC137	1580.522	-639.911	21.3	27	1.2	4.6	533	-9.27E+00	1	F
Charleston AFB	545 Engine Test Cell	SC138	1572.907	-639.224	14.6	36	9.3	16.8	360	5.04E-01	1	C
Charleston AFB	Air Handler 1 Boiler	SC139	1574.788	-638.953	28.7	40	0.5	0.010	328	1.13E-03	1	C
Charleston AFB	Air Handler 2 Boiler	SC140	1573.519	-639.224	28.7	35	0.5	0.010	328	1.13E-03	1	C
Charleston AFB	Boiler #4	SC141	1572.907	-639.224	12.8	36	0.4	0.010	422	1.50E-01	1	C

Table C-4 South Carolina Off-Site sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
Charleston AFB	Boiler #6	SC142	1572.907	-639.224	5.8	36	0.4	0.010	422	2.68E-01	1	C
Charleston AFB	Boiler #7	SC143	1572.907	-639.224	10.1	36	0.3	6.9	491	1.47E-01	1	C
Charleston AFB	Boiler #8	SC144	1572.907	-639.224	8.5	36	0.3	0.010	422	2.52E-04	1	C
Charleston AFB	hot water heater	SC145	1573.683	-639.156	8.5	38	0.5	10.4	505	1.01E-03	1	C
Medical University of South Carolina	BSB-2&3 Boiler	SC146	1585.187	-650.220	26.8	6	0.9	7.5	439	4.33E-01	1	C
Medical University of South Carolina	HCC-1&2 Boiler	SC147	1585.166	-650.214	31.1	6	0.5	0.010	450	1.47E+00	1	C
Medical University of South Carolina	Old S-1 Boilers	SC148	1585.071	-650.139	45.7	6	1.8	0.010	509	-2.80E+01	1	F
Medical University of South Carolina	S-1 Boilers	SC149	1585.095	-650.160	19.8	6	1.1	0.009	519	6.42E+00	1	C
Medical University of South Carolina	S-13, S-14, S-15 Boilers	SC150	1585.231	-650.325	29.8	5	0.3	13.0	394	3.26E-01	1	C
Medical University of South Carolina	Superior Boiler B770-2	SC151	1585.119	-650.182	55.5	6	0.6	0.010	505	1.71E+00	1	C
Medical University of South Carolina	SAC-1 Boiler	SC152	1585.089	-650.238	29.0	6	0.3	11.2	450	4.03E-01	1	C
City of Chas. Plum Island Sludge Inciner	Incineration scrubber Exhaust	SC153	1583.952	-653.315	13.7	8	1.2	12.7	341	1.39E-01	1	C
GS Roofing Products	RTO	SC154	1578.591	-644.818	22.9	16	0.8	13.1	530	2.39E-03	1	C
Kinder Morgan Bulk Terminals	Boiler	SC155	1585.180	-645.158	12.2	5	0.9	3.0	500	5.32E-01	1	C
SCE&G - Hagood	Combustion Turbine	SC156	1582.872	-645.925	38.1	5	4.9	45.7	798	7.94E+01	1	C
SCE&G - Hagood	Reduction: Boiler 1	SC157	1582.866	-645.896	38.1	8	3.4	15.0	450	-9.07E+01	1	F
SCE&G - Hagood	Reduction: Boiler 2	SC158	1582.866	-645.896	38.1	8	3.4	15.0	450	-9.07E-01	1	F
SCE&G - Hagood	Reduction: Boiler 3	SC159	1582.866	-645.896	38.1	8	3.4	13.2	444	-1.86E+02	1	F
Siebe North, Inc.	boiler 1	SC160	1578.915	-644.542	8.7	26	0.5	0.010	478	9.45E-02	1	C
Charleston Steel & Metal Co.	EP01	SC161	1584.821	-647.302	9.1	7	0.6	4.2	1311	8.06E-01	1	C
Kinder Morgan Bulk Terminals	Dryer/Baghouse	SC162	1580.582	-639.303	12.2	27	1.6	12.7	355	3.78E-04	1	C
Lockheed Martin Aeronautical	1966.000	SC163	1578.472	-644.704	10.4	26	2.1	0.009	666	-5.04E-04	1	F
Lockheed Martin Aeronautical	1950&1951	SC164	1578.393	-644.630	11.3	25	0.2	0.009	494	-4.28E-01	1	F
Lockheed Martin Aeronautical	1964 & 1965	SC165	1578.453	-644.651	10.4	26	2.1	0.009	444	-2.52E-03	1	F
Roper Hospital	S-01&2 Boiler 1&2	SC166	1584.959	-650.251	21.3	5	0.6	9.0	464	4.03E-01	1	C
Roper Hospital	S-03 Generator 9&10	SC167	1584.939	-650.306	10.1	5	0.2	0.010	821	1.85E-01	1	C
R.H. Johnson VA Medical Center	Boiler 1,2,3	SC168	1584.622	-650.288	21.3	5	0.7	13.7	491	7.56E-01	1	C
R.H. Johnson VA Medical Center	Incinerator	SC169	1584.640	-650.387	24.4	5	0.6	10.3	988	1.73E-01	1	C
Moore Drums	Fuel Oil Boiler	SC170	1578.548	-644.437	7.9	24	0.3	11.6	464	-2.10E-01	1	F
Moore Drums	Naturigas boiler	SC171	1578.554	-644.434	9.2	24	0.6	2.1	475	1.26E-03	1	C
Moore Drums	Reclam Furnace	SC172	1578.408	-644.391	15.7	11	0.7	18.5	533	1.02E-01	1	C
Tarmac America	Steam Generator	SC173	1586.492	-653.871	6.7	9	0.1	0.009	422	1.26E-01	1	C
South Carolina Farm Bureau	Cambell Dryer	SC174	1581.702	-636.990	21.3	5	2.1	0.009	344	-1.89E-03	1	F
Trident Medical Center	Boiler 1&2	SC175	1569.704	-631.583	12.2	45	0.6	12.3	489	2.65E-01	1	C
Broyhill Furniture	14MMBtu/hr Boiler	SC176	1561.094	-628.959	17.4	80	1.1	6.7	533	8.82E-03	1	C
MeadWestvaco Chemical Division	Boiler #9	SC177	1580.795	-638.322	10.7	5	0.6	0.010	616	6.90E-01	1	C
MeadWestvaco Chemical Division	Kettle Thermal Oxidizer	SC178	1580.905	-638.399	30.5	5	0.9	19.8	361	1.57E-01	1	C
MeadWestvaco Chemical Division	Poly Process Tank	SC179	1580.794	-638.273	9.8	5	0.1	0.010	304	-2.20E+00	1	F
MeadWestvaco Chemical Division	Process Tank Point Sources	SC180	1580.763	-638.237	14.0	5	0.4	0.2	304	-9.95E-03	1	F
MeadWestvaco Chemical Division	Spray Dryer	SC181	1580.818	-638.272	25.9	5	1.8	12.4	333	2.90E-01	1	C
Siebe-North, Inc.-Butyl 2	Boiler 1&2	SC182	1577.232	-642.929	11.7	34	0.4	9.1	478	1.07E+00	1	C
SC Department of Natural Resources	two 5.5 MMBtu/hr boiler	SC183	1590.077	-652.983	7.6	6	10.4	0.010	444	6.92E-01	1	C
North Charleston Sewer Dist.	incinerator	SC184	1584.432	-645.359	16.8	15	0.6	8.7	310	9.32E-01	1	C
Foster Wheeler	Boiler SG-201A	SC185	1583.321	-644.124	75.9	11	1.6	15.9	422	1.01E+01	1	C
The Scotts Company	Thermal Oxidizer 1	SC186	1572.041	-637.232	14.3	41	0.9	12.1	590	2.68E-01	1	C
The Scotts Company	Thermal Oxidizer 2	SC187	1572.044	-637.273	15.2	40	1.0	13.8	450	1.28E+00	1	C
Englehard Corp - Mearl LLC	Heat Treating Furnace (EP01)	SC188	1571.812	-637.032	11.6	35	0.9	2.4	978	5.67E-04	1	C

Table C-4 South Carolina Off-Site Sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
Englehard Corp - Mearl LLC	Steam Boiler No. 1 (EP05)	SC189	1571.812	-637.032	11.6	35	0.9	12.2	533	9.45E-04	1	C
ExxonMobil	Boiler	SC190	1584.640	-646.130	16.8	6	0.5	10.0	505	7.99E-01	1	C
Deytens Shipyards	Boiler #1	SC191	1581.801	-641.875	7.6	9	0.6	2.4	572	6.96E-02	1	C
Deytens Shipyards	Boiler #2	SC192	1581.735	-641.785	7.6	9	0.6	2.7	594	1.10E-01	1	C
Deytens Shipyards	Boiler #3	SC193	1581.787	-641.677	3.7	8	0.3	6.5	578	4.81E-02	1	C
Deytens Shipyards	Boiler #4	SC194	1582.112	-641.820	6.1	9	0.3	10.4	589	6.02E-02	1	C
Deytens Shipyards	Boiler #5	SC195	1582.086	-641.876	3.7	9	0.3	9.7	578	4.81E-02	1	C
Deytens Shipyards	H1-H6	SC196	1581.664	-641.753	3.7	9	0.6	0.003	366	1.53E+00	1	C
Deytens Shipyards	H7-H10	SC197	1581.742	-641.901	2.4	10	0.6	0.003	366	4.61E-01	1	C
Bon Secours St. Francis Xavier	Boiler 1&2	SC198	1576.078	-648.901	13.6	9	0.6	9.3	503	2.22E-01	1	C
Bon Secours St. Francis Xavier	Generator 1&2	SC199	1576.157	-649.906	15.2	8	0.3	69.3	825	1.13E-01	1	C
Bon Secours St. Francis Xavier	Generator 3	SC200	1576.277	-648.956	16.8	10	0.2	107.3	825	6.21E-02	1	C
City of Charleston-Hanahan	diesel generator 1&2	SC201	1575.124	-636.365	7.3	21	0.2	129.3	839	1.06E-01	1	C
City of Charleston-Hanahan	diesel generator 6&7	SC202	1575.124	-636.365	10.0	21	0.2	97.1	786	3.00E-01	1	C
Cogen South LLC	Aux Boilers	SC203	1580.958	-638.352	74.1	5	3.0	20.8	461	3.91E+01	1	C
Cogen South LLC	Main Boiler	SC204	1581.038	-638.415	122.9	5	3.4	17.2	345	5.06E+01	1	C
Palmetto Lime LLC	Kiln stack	SC205	1585.114	-645.693	90.1	5	2.1	18.6	453	4.64E-01	1	C
Charleston Technical Center	CTC Boiler	SC206	1580.484	-638.504	19.4	5	0.5	12.6	422	4.62E-01	1	C
Green Oasis Environmental	EE1	SC207	1584.890	-646.085	12.2	9	0.5	6.6	632	6.35E-01	1	C
Mount Pleasant Waterworks	600 kW Generator	SC208	1595.886	-645.445	5.5	5	30.9	0.010	775	4.10E-01	1	C
Mount Pleasant Waterworks	900 kW Generator	SC209	1595.886	-645.445	6.1	5	24.2	0.010	754	6.15E-01	1	C
Avebe (SC)	Air Heater	SC210	1571.421	-635.323	9.1	30	0.7	10.1	578	1.26E-03	1	C
Avebe (SC)	Boiler	SC211	1571.421	-635.323	9.1	30	0.5	6.5	478	1.26E-03	1	C
College of Charleston	Boiler 1	SC212	1586.643	-649.660	13.1	10	0.9	11.2	494	9.50E-01	1	C
College of Charleston	Boiler 2	SC213	1586.647	-649.652	13.1	10	0.9	11.2	494	9.50E-01	1	C
Mt. Pleasant Waterworks	WG-7 peak generator	SC214	1594.834	-644.230	4.3	15	0.2	0.010	775	1.42E-01	1	C
American Tank Fabrication Co.	TF-F1	SC215	1581.760	-641.752	16.5	9	1.0	0.010	478	1.26E-03	1	C
Heritage Synfuel Binders	Hot Oil Heater	SC216	1584.420	-646.025	10.7	12	0.4	4.0	478	3.09E-01	1	C
Cummins MerCruiser Diesel, LLC	ETC1015	SC217	1576.661	-645.099	14.3	7	0.1	6.8	533	2.03E-01	1	C
Cummins MerCruiser Diesel, LLC	ETC1618	SC218	1576.645	-645.110	14.3	7	0.3	6.8	533	1.69E-01	1	C
Mt. Pleasant Waterworks Plant #4	Generator	SC219	1599.969	-636.831	5.3	23	0.3	25.6	775	1.58E-01	1	C
Vought Aircraft Industries, Inc.	AC - AutoClave	SC220	1575.393	-641.652	21.0	16	1.2	20.1	505	3.41E-03	1	C
Vought Aircraft Industries, Inc.	Paint Boilers	SC221	1575.255	-641.280	21.0	7	0.7	11.5	450	1.49E-03	1	C
Holset Engineering	Test Cell 1	SC222	1565.544	-633.152	13.7	27	0.2	53.7	533	1.23E-02	1	C
Holset Engineering	Test Cell 2	SC223	1565.544	-633.152	13.7	27	0.2	53.7	533	1.23E-02	1	C
Holset Engineering	Test Cell 3	SC224	1565.544	-633.152	13.7	27	0.2	53.7	533	1.23E-02	1	C
Holset Engineering	Test Cell 4	SC225	1565.544	-633.152	13.7	27	0.2	53.7	533	1.23E-02	1	C
Holset Engineering	Test Cell 5	SC226	1565.544	-633.152	13.7	27	0.2	53.7	533	1.23E-02	1	C
Holset Engineering	Test Cell 6	SC227	1565.544	-633.152	13.7	27	0.2	71.6	533	5.22E-02	1	C
Southwoods Lumber & Millwork	Woodwaste Boil.	SC228	1543.638	-555.401	15.2	95	0.5	2.3	455	1.64E-02	1	C
Aircap Industries	boilers	SC229	1545.685	-555.544	12.8	90	0.6	14.5	469	-2.16E+01	1	F
Grant Clarendon, Inc	Thermal Oil Heater	SC230	1538.475	-544.396	22.9	138	1.2	22.2	578	5.42E-03	1	C
Grant Clarendon, Inc	H1 Common Stack 1	SC231	1538.406	-544.425	38.1	138	3.0	20.4	385	1.13E+00	1	C
Grant Clarendon, Inc	H2 Common Stack 2	SC232	1538.384	-544.401	38.1	139	3.0	20.4	385	1.13E+00	1	C
Grant Clarendon, Inc	Press Fugitives	SC233	1538.493	-544.401	24.4	138	2.4	0.010	305	1.37E-02	1	C
Giant Cement	Kilns #2 & 3	SC234	1530.363	-608.253	49.7	85	3.0	18.0	411	-8.60E+01	1	F
Giant Cement	Kilns #4 & 5	SC235	1530.642	-608.447	53.3	84	3.0	18.0	400	-1.12E+02	1	F

Table C-4 South Carolina Off-Site sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
Giant Cement	Main Baghouse/Bypass Vent	SC236	1530.638	-608.503	89.9	95	4.3	15.3	383	6.80E+01	1	C
Giant Cement	Marl Dryer Scrubber	SC237	1530.413	-608.375	15.2	88	1.1	21.1	344	-4.10E+00	1	F
Blue Circle Cement	Stack #1	SC238	1529.866	-610.608	30.5	84	3.0	21.3	378	1.34E+01	1	C
Blue Circle Cement	Stack #36	SC239	1529.893	-610.666	35.1	82	1.8	3.6	355	6.71E+00	1	C
Westvaco Lumber Mill	Kiln 3-Stack 3C	SC240	1557.513	-627.435	7.9	81	0.2	0.010	389	4.66E-02	1	C
Westvaco Lumber Mill	Kiln 4-Stack 5	SC241	1557.506	-627.447	9.1	81	15.7	0.010	389	7.60E-02	1	C
Robert Bosch Corporation	Boiler 5	SC242	1568.483	-639.388	10.1	26	0.6	5.2	425	3.23E-01	1	C
Robert Bosch Corporation	Boiler 6	SC243	1568.487	-639.390	10.1	26	0.6	5.2	425	3.23E-01	1	C
Showa Denko Carbon	burn. Incinerator (S7)	SC244	1542.544	-623.574	24.4	68	2.4	61.0	1061	3.84E+00	1	C
Showa Denko Carbon	Graphitizing (S22)	SC245	1542.489	-623.582	57.9	66	2.3	23.0	361	1.67E+01	1	C
Showa Denko Carbon	roof moniters (VS1-6)	SC246	1542.444	-623.599	23.2	66	1.0	0.001	0.001	5.59E+00	1	C
Summerville Medical Center	boiler 1	SC247	1562.474	-634.074	8.0	20	0.3	7.3	475	1.51E-01	1	C
Summerville Medical Center	boiler 2	SC248	1562.474	-634.074	8.0	20	0.3	7.3	475	1.51E-01	1	C
Lauscha Fiber International-Summerville	Flame Attenuation Stack 01	SC249	1555.430	-626.101	15.9	67	1.2	30.6	378	1.52E-03	1	C
Lauscha Fiber International-Summerville	Flame Attenuation Stack 02	SC250	1555.422	-626.115	15.9	67	1.2	30.6	378	1.52E-03	1	C
Lauscha Fiber International-Summerville	Flame Attenuation Stack 03	SC251	1555.416	-626.130	15.9	67	1.2	30.6	378	1.52E-03	1	C
Chamber Oakridge Landfill	flare	SC252	1539.064	-618.912	6.7	93	0.2	12.2	1033	1.89E-02	1	C
Dausey	boiler	SC253	1519.404	-617.051	5.5	109	0.4	0.010	505	1.71E-01	1	C
Raisio Staest US Inc	Hot Oil System	SC254	1554.883	-625.789	9.1	67	0.5	6.7	605	1.26E-03	1	C
Raisio Staest US Inc	Steam Boiler	SC255	1554.883	-625.789	9.1	67	0.6	12.2	561	3.78E-03	1	C
Cemplank Inc.	0021 (Boiler)	SC256	1554.697	-625.539	13.4	65	0.7	11.2	516	1.50E+00	1	C
DBW Inc (formerly Lauscha Fiber International)	Process Stack 01	SC257	1555.720	-626.007	12.2	68	0.6	20.0	343	5.04E-05	1	C
Trebol USA, Inc.	Spray Dryer	SC258	1606.638	-572.027	9.3	20	0.3	6.6	411	5.67E-04	1	C
International Paper - Pulp & Paper Mill	7&8 power boilers	SC259	1632.215	-575.701	61.0	18	4.4	18.3	516	-1.20E+02	1	F
International Paper - Pulp & Paper Mill	Black Liquor Oxidation Stage 2	SC260	1631.886	-575.455	30.5	18	1.4	13.5	343	1.15E+00	1	C
International Paper - Pulp & Paper Mill	common stack	SC261	1632.174	-575.647	61.0	18	4.4	18.3	516	-4.10E+02	1	F
International Paper - Pulp & Paper Mill	Container Division Sources	SC262	1631.886	-575.455	8.2	18	0.7	0.010	483	4.08E-03	1	C
International Paper - Pulp & Paper Mill	lime kiln	SC263	1632.085	-575.714	30.5	18	1.8	10.0	350	-5.25E+00	1	F
International Paper - Pulp & Paper Mill	lime kiln	SC264	1632.074	-575.706	30.5	18	1.8	10.0	350	-5.24E+00	1	F
International Paper - Pulp & Paper Mill	lime kiln 2	SC265	1632.132	-575.663	29.0	18	1.8	7.0	343	1.41E-01	1	C
International Paper - Pulp & Paper Mill	NCG incinerator	SC266	1632.132	-575.534	20.7	19	1.1	8.0	356	-1.15E+00	1	F
International Paper - Pulp & Paper Mill	power boiler	SC267	1632.241	-575.737	21.3	18	2.4	12.2	561	-6.14E+01	1	F
International Paper - Pulp & Paper Mill	power boiler 1&2	SC268	1632.245	-575.648	85.4	18	5.2	12.2	462	1.32E+02	1	C
International Paper - Pulp & Paper Mill	recovery boiler 1	SC269	1632.301	-575.644	71.6	18	2.4	17.3	436	2.90E+00	1	C
International Paper - Pulp & Paper Mill	recovery boiler 2	SC270	1632.236	-575.614	76.2	18	3.7	12.1	344	4.29E+01	1	C
Georgetown Steel, Inc.	5.000	SC271	1632.863	-574.658	31.4	19	10.2	4.5	332	-1.20E+00	1	F
Georgetown Steel, Inc.	8A	SC272	1632.863	-574.658	24.1	19	2.9	11.2	515	-1.85E+01	1	F
Georgetown Steel, Inc.	DRI Reduction Furnace	SC273	1632.863	-574.658	9.1	19	0.5	10.1	293	2.52E-03	1	C
Georgetown Steel, Inc.	Melt Shop Baghouse	SC274	1632.863	-574.658	24.4	19	232.8	0.010	356	4.49E+00	1	C
Georgetown Steel, Inc.	PS	SC275	1632.863	-574.658	28.3	19	3.6	13.7	417	3.53E-02	1	C
Santee Cooper - Winyah	Unit 1 Old Stack	SC276	1627.689	-580.274	123.2	20	5.5	18.3	422	-2.19E+02	1	F
Santee Cooper - Winyah	Unit 3	SC277	1627.574	-580.321	123.2	20	4.9	22.9	345	2.12E+02	1	C
Santee Cooper - Winyah	Unit 4	SC278	1627.517	-580.336	123.2	20	4.9	22.9	345	2.12E+02	1	C
International Paper - Sampit Lumber	Gasification Boiler	SC279	1617.423	-571.851	15.9	40	0.9	12.9	491	9.95E-02	1	C
Oneita Industries	Boilers	SC280	1606.276	-570.110	19.2	20	0.8	0.010	505	-1.54E+01	1	F
3V, Inc.	Boiler #1 (01S01)	SC281	1625.055	-577.443	19.5	19	0.8	10.0	514	7.80E-01	1	C
3V, Inc.	Boiler #2 (01S02)	SC282	1625.053	-577.432	19.5	19	0.8	16.7	514	1.31E+00	1	C

Table C-4 South Carolina Off-Site Sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
3V, Inc.	Oil Heater #1 (01S03)	SC283	1624.910	-577.388	15.9	19	0.8	4.9	477	4.67E-01	1	C
Georgetown Memorial Hospital	BOILER #1 & #2	SC284	1633.196	-573.560	13.7	19	0.5	10.5	461	7.07E+00	1	C
Georgetown Memorial Hospital	removed two boilers	SC285	1633.196	-573.555	9.1	19	0.5	4.0	461	-6.80E-01	1	F
Holnam - Georgetown Terminal	Diesel Engine	SC286	1633.254	-575.777	4.2	19	0.2	36.2	722	1.76E-02	1	C
Holnam - Georgetown Terminal	Diesel Engine #1	SC287	1633.273	-575.765	4.1	19	0.2	43.4	708	8.82E-03	1	C
Holnam - Georgetown Terminal	Diesel Engine #2	SC288	1633.265	-575.769	4.1	19	0.2	43.4	708	8.82E-03	1	C
Holnam - Georgetown Terminal	Diesel Engine #3	SC289	1633.268	-575.773	4.1	19	0.2	43.4	708	8.82E-03	1	C
Holnam - Georgetown Terminal	Diesel Engine #4	SC290	1633.274	-575.769	4.1	19	0.2	43.4	708	8.82E-03	1	C
International Paper - Container Facility	Steam Boiler	SC291	1632.297	-576.196	8.2	19	0.7	0.010	483	4.72E-02	1	C
Praxair, Inc	Product Vaporizers	SC292	1632.648	-575.217	10.0	19	0.2	0.010	478	1.26E-03	1	C
AGSC	EP18	SC293	1627.989	-579.785	20.0	20	2.1	21.1	347	1.30E-02	1	C
AGSC	EP5	SC294	1627.906	-579.906	45.3	20	1.7	20.1	361	6.15E-03	1	C
AGSC	EP8	SC295	1627.896	-579.920	45.3	20	1.3	22.4	436	3.41E-03	1	C
AGSC	EP9	SC296	1627.901	-579.913	45.3	20	1.3	22.4	436	3.41E-03	1	C
SCE&G-Jasper Co. Generating Facility	Turbines 1-3	SC297	1485.228	-716.635	57.9	21	5.5	22.1	410	4.03E+01	1	C
Coastal Debris	ACI	SC298	1573.237	-4655.334	3.0	10	4.0	1.3	922	7.56E-02	1	C
Wasteco	ACI	SC299	1504.543	-705.224	9.1	15	6.2	0.4	811	7.94E-02	1	D
Voridian	13L04-6 A-F, H-K, O, Q, R	SC300	1465.832	-549.703	4.9	160	0.2	0.001	303	-1.66E-01	1	F
Voridian	16M08 ID#6	SC301	1466.258	-550.039	22.8	145	0.9	5.6	672	-5.05E+00	1	F
Voridian	16M08 ID#7	SC302	1466.258	-550.039	22.8	145	0.9	3.5	478	-5.05E+00	1	F
Voridian	HEAT1011	SC303	1466.326	-550.050	36.6	141	1.2	7.5	478	7.46E+00	1	D
Foster-Dixiana Corp	Dryer	SC304	1458.431	-547.074	13.1	307	1.0	39.9	325	-8.46E-01	1	F
Michelin Tire Corp	124_44	SC305	1439.864	-546.556	36.6	445	0.4	14.3	411	9.50E+00	1	D
Diamond Pet Food	EP-10 Boiler	SC306	1459.026	-557.741	10.1	462	0.5	10.4	464	1.39E-03	1	D
Diamond Pet Food	EP-6 Dryer Exhaust	SC307	1459.026	-557.741	12.8	462	0.9	15.3	344	2.52E-03	1	D
Diamond Pet Food	EP-9 Boiler	SC308	1459.026	-557.741	10.1	462	0.5	2.0	450	1.39E-03	1	D
Lexington Medical Center	Boiler No. 5 (removed)	SC309	1454.288	-536.256	7.3	336	0.2	8.6	422	-2.80E-01	1	F
Lexington Medical Center	Boiler No. 6	SC310	1454.288	-536.256	11.6	336	0.4	8.3	476	3.54E-01	1	D
Lexington Medical Center	Boiler No. 7 or Boiler No. 8	SC311	1454.288	-536.256	11.6	336	0.4	10.1	463	5.91E-01	1	D
Lexington Medical Center	Boiler No. 9 or Boiler No. 10	SC312	1454.288	-536.256	11.6	336	0.5	11.5	440	7.04E-01	1	D
Corley & Sons Sawmill	gas-fired Boiler	SC313	1448.605	-536.397	7.6	245	0.5	0.010	394	-2.95E-01	1	F
SMI Steel SC	Baghouse #1 East Section	SC314	1460.727	-540.009	25.9	141	9.1	2.9	383	1.36E+00	1	D
SMI Steel SC	Baghouse #2 West Section	SC315	1460.707	-540.022	25.9	145	9.1	2.9	383	1.36E+00	1	D
SMI Steel SC	Melt Shop	SC316	1460.782	-539.935	14.8	144	1.0	0.001	0.001	2.75E-02	1	D
SMI Steel SC	Roll Mill Reheat Furnace	SC317	1460.950	-540.003	27.7	142	1.5	21.4	306	4.33E+00	1	D
J.B.Martin Co.	Tenter Process	SC318	1422.173	-551.434	7.9	608	0.6	0.010	450	6.80E-04	1	D
Union Underwear Co.	Boiler #1	SC319	1443.472	-543.221	9.8	386	0.6	2.3	422	-3.75E-01	1	F
Union Underwear Co.	Boiler #2	SC320	1443.472	-543.221	9.8	386	0.5	14.5	444	-1.27E+00	1	F
Inland Container Corp	Boiler #2 (backup boiler)	SC321	1443.335	-543.218	14.4	383	0.6	10.9	488	1.36E+00	1	D
Columbia Farms/OSI LP	Boilers #1&2	SC322	1458.516	-543.144	15.2	139	0.4	6.1	478	9.10E-01	1	D
Pallet Removal and Repair	Incinerator	SC323	1437.042	-560.889	6.1	338	2.6	1.5	1478	7.56E-03	1	D
PBR Automotive	Fugitive Emissions	SC324	1452.887	-542.102	11.0	301	1.4	14.5	294	2.19E-03	1	D
PBR Automotive	Tower Melt Furnace	SC325	1452.877	-542.058	16.2	302	0.8	9.5	623	1.62E-02	1	D
Lion Ribbon	Boiler #1	SC326	1417.473	-550.521	10.2	524	0.5	8.7	500	6.68E-01	1	D
United Parcel Service - Air Hub	Generator	SC327	1456.199	-544.148	4.2	191	0.2	346.3	768	4.41E-03	1	D
SEFA Group, Inc.	FAB Unit	SC328	1443.856	-532.200	15.2	230	109.4	0.001	422	2.63E+01	1	D
Albemarle Corp	701 HE-950-1	SC329	1486.107	-591.442	7.9	173	0.3	0.010	541	9.05E-02	1	D

Table C-4 South Carolina Off-Site Sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
Albemarle Corp	701 HE-950-2	SC330	1486.098	-591.444	8.2	174	0.5	0.010	505	8.92E-02	1	D
Albemarle Corp	DR-3 Diesel Engine 11	SC331	1486.003	-591.715	3.4	176	0.2	41.8	816	3.28E-02	1	D
Albemarle Corp	HCN Diesel Engine 12	SC332	1486.078	-591.794	3.7	167	0.2	54.3	777	1.58E-02	1	D
Albemarle Corp	HCN Flare	SC333	1486.170	-591.767	30.5	161	0.6	3.2	811	5.29E-04	1	D
Holnam, Inc.	(81) #1 Kiln ESP	SC334	1530.731	-604.254	45.7	73	3.4	9.2	426	-6.03E+01	1	F
Holnam, Inc.	(82) #2 Kiln ESP	SC335	1530.730	-604.174	48.8	75	3.7	15.2	452	-1.88E+02	1	F
Holnam, Inc.	(94) Preheater Kiln	SC336	1531.018	-604.545	109.5	51	6.1	15.8	391	1.08E+02	1	D
Holnam, Inc.	(95) Coal Mill Vent	SC337	1530.977	-604.522	42.0	52	1.3	23.6	358	7.80E+00	1	D
Stone Forest Products	Pine Bark Boiler	SC338	1483.788	-593.954	12.2	256	1.2	17.4	440	1.93E-01	1	D
Carolina Lumber	Temporary Boiler	SC339	1483.788	-593.954	5.8	256	0.6	11.9	436	1.66E+00	1	D
Stone Forest Products	Wood Waste Boiler	SC340	1483.813	-593.944	15.9	255	0.6	14.3	500	1.05E-01	1	D
Elloroe Veneer Co.	Wood Waste Boiler	SC341	1512.375	-580.003	18.3	167	0.9	16.2	478	2.92E-02	1	D
Frigidaire Home Products	Boilers	SC342	1492.189	-585.916	12.2	198	0.6	0.010	478	1.76E-02	1	D
Frigidaire Home Products	Diesel Fire Pump	SC343	1492.189	-585.916	9.1	198	0.2	36.6	366	2.52E-02	1	D
Frigidaire Home Products	Dryoff, Bake & Burnoff Ovens	SC344	1492.189	-585.916	7.5	198	0.6	0.010	325	8.78E-04	1	D
Frigidaire Home Products	Engine Testing	SC345	1492.189	-585.916	7.6	198	1.0	0.010	294	8.82E-03	1	D
SCE&G-Cope	Unit 1 Boiler	SC346	1474.371	-605.128	160.0	174	7.0	14.9	339	1.26E+02	1	D
American Koyo	S17 Peacemaker Burnoff 1-3	SC347	1488.408	-584.809	10.1	276	0.4	0.010	394	5.04E-05	1	D
Carolina Pole, Inc	Kiln Boiler	SC348	1535.296	-592.871	15.5	104	0.6	15.9	478	6.58E+00	1	D
Hughes Aircraft	Boiler	SC349	1489.444	-591.342	14.0	190	1.5	9.1	293	1.26E-03	1	D
Orangeburg Dept. of Public Utilities	Generator 1&2	SC350	1481.499	-583.290	6.7	268	1.1	27.2	700	6.80E+00	1	D
North American Container	AC Incinerator	SC351	1491.914	-593.835	6.1	180	4.0	2.4	1366	1.45E-01	1	D
North American Container	Boiler	SC352	1491.914	-593.835	15.2	180	0.6	6.6	422	4.16E-03	1	D
Gulbrandsen Manufacturing	125 HP Boiler	SC353	1489.357	-596.207	12.5	177	0.5	0.7	512	3.34E-01	1	D
Gulbrandsen Manufacturing	250 HP Boiler	SC354	1489.357	-596.207	12.5	177	0.5	8.7	464	6.14E-01	1	D
Okonite Company	Boiler No. 1	SC355	1489.352	-592.449	11.9	189	14.9	0.010	497	8.82E-04	1	D
Okonite Company	Boiler No. 2	SC356	1489.350	-592.443	11.9	189	14.9	0.010	497	8.82E-04	1	D
Okonite Company	Hot Water Boiler 1	SC357	1489.350	-592.434	11.9	189	10.9	0.010	380	6.30E-04	1	D
City of Orangeburg	350 kW Generator	SC358	1488.783	-593.739	5.8	186	0.2	144.9	933	1.22E-01	1	D
City of Orangeburg	500 kW Generator	SC359	1488.783	-593.739	5.8	186	0.2	144.9	933	3.40E-02	1	D
City of Orangeburg	900 kW Generator	SC360	1488.783	-593.739	5.5	186	0.2	280.5	736	6.17E-02	1	D
City of Orangeburg	Hot Oil Burner Exhaust	SC361	1488.783	-593.739	10.2	186	0.6	4.6	616	1.01E-03	1	D
SC Pipeline Corporation	Boiler #1	SC362	1450.914	-585.602	10.4	367	0.9	0.010	400	3.53E-03	1	D
SC Pipeline Corporation	Boiler #2	SC363	1450.914	-585.602	10.4	367	0.9	0.010	400	3.53E-03	1	D
Doane Products Company	Boiler&Heater	SC364	1489.034	-592.344	11.0	188	0.5	4.3	478	1.30E-03	1	D
Doane Products Company	Dryers Combustion Exhaust	SC365	1489.024	-592.376	11.6	188	1.2	4.6	422	1.93E-03	1	D
Federal Mogul Corp	Air Handler	SC366	1489.127	-591.454	10.7	190	0.1	23.8	311	1.51E-03	1	D
Pennington Crossarm Co.	Boiler	SC367	1529.125	-598.101	9.1	105	0.4	0.010	508	5.37E-01	1	D
Trinity Industries, Inc.	Stack 1-Kettle Furnace	SC368	1489.981	-592.875	11.0	187	0.7	5.8	866	5.17E-04	1	D
City of Orangeburg Dept of Public Utilities	Generator 1	SC369	1486.503	-588.412	5.4	212	0.5	40.4	751	4.15E-02	1	D
Hanson Brick	P4SCRB - Plant 4 Scrubber	SC370	1457.680	-530.282	26.2	185	1.5	10.8	502	1.55E-01	1	D
Vulcan Construction Materials - Columbia Quarry	Plant Engine	SC371	1462.101	-537.757	1.5	38	0.1	11.0	803	1.02E-02	1	D
Owens Electric Steel Co.	Melt Shop	SC372	1460.737	-539.995	25.9	142	10.9	3.0	394	2.39E-01	1	D
Fort Jackson	CEP#3 Boilers #1,2,&3	SC373	1470.071	-534.724	16.8	206	0.9	0.010	503	3.34E+00	1	D
Fort Jackson	CEP#3 Old Boilers #1,2,&3	SC374	1470.071	-534.724	16.8	206	0.9	0.010	503	-2.27E+01	1	F
Fort Jackson	Boiler & Diesel Engine	SC375	1470.237	-534.453	4.6	190	0.3	0.010	450	9.53E-03	1	D
Fort Jackson	B2100 - Boiler	SC376	1468.480	-534.246	13.4	176	0.4	0.010	366	7.56E-04	1	D

Table C-4 South Carolina Off-Site Sources Used in Class I Area Modeling

January 17, 2008

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
Fort Jackson	CEP#1 Boilers #1,2,&3	SC377	1468.971	-533.765	16.8	253	1.1	0.010	450	6.33E-01	1	D
Fort Jackson	CEP#1 Old Boilers #1,2,&3	SC378	1468.971	-533.765	16.8	253	1.1	0.010	450	-3.41E+01	1	F
Fort Jackson	CEP#2 Boilers #1-#5	SC379	1469.603	-532.493	16.8	253	1.1	0.010	422	8.28E+00	1	D
Fort Jackson	CEP#2 Old Boilers #1-#5	SC380	1469.603	-532.493	16.8	253	1.1	0.010	450	-4.94E+01	1	F
Fort Jackson	CEP3CHL - CEP #3 Chiller	SC381	1470.071	-534.724	6.1	206	2.9	0.010	422	1.26E-04	1	D
Fort Jackson	H032E - Boiler	SC382	1471.158	-531.690	14.2	352	0.9	0.010	450	4.16E-03	1	D
Vulcan Construction Materials - Columbia Quarry	Screen 1	SC383	1462.101	-537.757	12.2	183	1.0	0.001	0.001	1.26E-04	1	D
City of Columbia WWTP	Exchanger No. 3, No. 4, No. 5	SC384	1464.419	-542.003	7.6	134	7.3	0.010	422	5.67E-04	1	D
WJBD VA Hospital	Medical Waste Incinerator	SC385	1468.597	-536.960	11.3	255	0.5	12.2	1257	3.11E-01	1	D
Anchor Continental	B4-Latex Bldg Boiler	SC386	1467.419	-539.493	7.9	118	0.4	8.2	533	6.30E-04	1	D
Anchor Continental	LA1-Latex Saturator	SC387	1467.420	-539.473	8.5	118	0.7	0.010	447	6.30E-04	1	D
Anchor Continental	RA1-Thermal Oxidizer	SC388	1467.242	-539.287	4.6	123	1.0	11.6	533	1.51E-03	1	D
Cardinal Stabilizers	Boiler 1 800hp	SC389	1467.072	-539.214	9.1	138	0.6	12.7	554	2.13E+00	1	D
Cardinal Stabilizers	Boiler 2 300hp	SC390	1467.072	-539.214	7.6	138	0.5	6.3	436	6.35E-01	1	D
Cardinal Stabilizers	Boiler 3 400hp	SC391	1467.072	-539.214	7.6	138	0.5	6.3	436	-8.56E-01	1	F
Cardinal Stabilizers	Boiler 4 800hp	SC392	1467.072	-539.214	9.1	138	0.6	12.7	554	2.13E+00	1	D
Shakespeare Monofilament	Boilers	SC393	1465.796	-528.165	11.0	374	0.5	9.9	422	1.51E-03	1	D
Square D Company	Boiler#1&2	SC394	1476.411	-539.710	7.9	189	0.6	0.010	422	1.26E-03	1	D
Consolidated Systems Inc	SB01-Dryer #3, Spray Booth 1	SC395	1462.720	-538.830	16.8	169	0.6	12.9	311	2.52E-04	1	D
Consolidated Systems Inc	EP01A RTO Exhaust	SC396	1462.642	-538.832	27.7	175	1.4	12.6	559	1.64E-04	1	D
Consolidated Systems Inc	EP01B Heat Exchanger	SC397	1462.673	-538.698	10.1	183	1.2	9.1	422	7.56E-05	1	D
Consolidated Systems Inc	EP01C Heat Exchanger	SC398	1462.664	-538.709	10.4	183	1.2	7.1	354	8.82E-05	1	D
Palmetto Baptist Medical Center	Boiler #1	SC399	1461.564	-534.658	30.3	309	2.7	1.0	478	9.50E-01	1	D
Palmetto Baptist Medical Center	Boiler #3	SC400	1461.564	-534.658	30.3	309	2.7	1.0	478	9.50E-01	1	D
Palmetto Baptist Medical Center	Boiler #4	SC401	1461.564	-534.658	38.7	309	0.5	0.010	478	1.13E-03	1	D
Palmetto Baptist Medical Center	Old Boiler #1	SC402	1461.564	-534.658	42.7	309	1.1	3.7	519	-1.34E+00	1	F
Palmetto Baptist Medical Center	Old Boiler #3	SC403	1461.564	-534.658	42.7	309	1.1	3.7	519	-1.34E+00	1	F
International Paper - Eastover	No. 1 Lime Kiln	SC404	1499.744	-541.279	54.0	213	1.8	10.7	330	1.16E+00	1	D
International Paper - Eastover	No. 1 RecFurn/No. 1 Boiler	SC405	1499.610	-541.511	86.1	210	4.1	17.2	459	1.73E+02	1	D
International Paper - Eastover	No. 1 Smelt Dissolving Tank	SC406	1499.687	-541.574	75.9	212	1.4	6.5	349	4.41E-01	1	D
International Paper - Eastover	No. 2 Lime Kiln	SC407	1499.735	-541.220	54.0	211	1.8	21.3	518	1.65E+00	1	D
International Paper - Eastover	No. 2 RecFurn	SC408	1499.658	-541.485	141.2	213	4.3	15.5	461	1.41E+02	1	D
International Paper - Eastover	No. 2 Power Boiler	SC409	1499.562	-541.536	141.2	204	2.9	20.8	465	1.21E+02	1	D
International Paper - Eastover	No. 2 Smelt Dissolving Tank	SC410	1499.699	-541.537	75.9	212	1.8	8.4	351	9.83E-01	1	D
FN Manufacturing, Inc.	Stack#90&91	SC411	1477.220	-536.355	3.2	337	0.8	11.2	294	4.79E-03	1	D
Richland Memorial Hospital	Boiler 2-600HP	SC412	1461.245	-532.464	9.1	238	1.2	0.010	475	1.61E+00	1	D
Richland Memorial Hospital	Boiler 3-800HP	SC413	1461.245	-532.464	10.8	238	0.6	6.0	475	2.14E+00	1	D
Richland Memorial Hospital	Removed boiler-1250HP	SC414	1461.245	-532.464	11.0	238	1.2	2.4	483	-1.73E+01	1	F
Masterfoods USA	Boiler #1 (8.4 MM BTU/hr)	SC415	1469.968	-541.642	11.0	141	0.4	4.9	503	2.14E-01	1	D
Masterfoods USA	Boiler #2 (12.6 MM BTU/hr)	SC416	1469.968	-541.642	10.1	141	0.3	10.1	506	3.23E-01	1	D
Masterfoods USA	Dryers 1-3	SC417	1469.968	-541.642	10.7	141	0.6	0.010	312	1.76E-03	1	D
SC State Farmers Market	Air Curtain Incinerator	SC418	1461.773	-544.665	2.4	130	1.7	0.9	811	4.54E-02	1	D
SC Dept of Corrections	Boiler #1&2	SC419	1453.119	-531.018	6.1	231	0.7	10.8	505	-1.50E+01	1	F
SC Dept of Corrections	Boiler #1&2	SC420	1452.752	-528.928	7.6	258	0.5	0.010	450	8.14E-01	1	D
SC Dept of Corrections	Boiler #1	SC421	1463.692	-526.239	6.7	306	0.5	0.010	439	1.26E-04	1	D
Springs Industries - Olympia	Boiler #1&2	SC422	1461.205	-537.680	53.4	160	2.4	0.6	455	5.82E+00	1	D
American-Italian Pasta	Boiler #1	SC423	1471.317	-540.115	13.5	165	0.6	11.6	416	6.44E-01	1	D

Table C-4 South Carolina Off-Site Sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
American-Italian Pasta	Boiler #2	SC424	1471.317	-540.115	13.5	165	0.6	11.6	416	6.44E-01	1	D
Pepsi-Cola South, Inc.	Boiler #1&2	SC425	1462.905	-527.210	10.2	292	0.5	4.1	505	1.58E-03	1	D
USC Central Energy Facilities	(old) South Boiler #1	SC426	1462.693	-536.673	14.6	217	1.8	1.2	511	-1.94E+00	1	F
USC Central Energy Facilities	Biomass Gasifier	SC427	1462.516	-536.512	28.4	212	1.2	18.3	430	3.40E-01	1	D
USC Central Energy Facilities	Colonial Center	SC428	1461.372	-536.023	30.5	212	0.9	0.010	422	1.01E-03	1	D
USC Central Energy Facilities	Carolina Gardens, Bldg #1	SC429	1462.927	-536.466	11.0	288	0.4	0.009	422	1.76E-04	1	D
USC Central Energy Facilities	East Boiler #1	SC430	1462.604	-535.412	15.2	281	1.2	4.3	463	2.09E-01	1	D
USC Central Energy Facilities	East Boiler #2	SC431	1462.595	-535.417	15.2	279	1.2	4.3	463	2.05E-01	1	D
USC Central Energy Facilities	East Boiler #3	SC432	1462.586	-535.423	15.2	278	1.2	4.3	463	2.09E-01	1	D
USC Central Energy Facilities	Field House Heater	SC433	1462.797	-536.502	4.9	262	0.9	0.010	422	1.64E-04	1	D
USC Central Energy Facilities	MacMaster Boiler #1	SC434	1462.294	-534.992	15.9	313	0.6	0.009	294	1.26E-04	1	D
USC Central Energy Facilities	Old East Boiler #1	SC435	1462.585	-535.628	15.2	240	1.2	4.3	463	-2.71E+00	1	F
USC Central Energy Facilities	Old East Boiler #2	SC436	1462.585	-535.628	15.2	240	1.2	4.3	463	-2.71E+00	1	F
USC Central Energy Facilities	Old East Boiler #3	SC437	1462.585	-535.628	15.2	240	0.8	10.9	463	-3.48E+00	1	F
USC Central Energy Facilities	Old West Boiler #1	SC438	1462.159	-536.298	13.4	240	0.8	11.5	519	-3.48E+00	1	F
USC Central Energy Facilities	South Boiler #2	SC439	1462.684	-536.469	14.6	254	1.8	1.2	511	1.94E+00	1	D
USC Central Energy Facilities	West Boiler #1	SC440	1462.190	-536.107	13.4	272	0.8	11.5	519	2.09E-01	1	D
USC Central Energy Facilities	West Boiler #2	SC441	1462.182	-536.111	14.0	272	1.2	4.5	519	3.48E-01	1	D
IBP Carolina Cooled Meats	Boiler #1&2	SC442	1466.130	-539.788	14.0	131	0.5	7.4	466	6.77E-01	1	D
Specialty Minerals, Inc.	Carbonators 1-3	SC443	1499.692	-541.295	16.8	216	0.6	12.5	344	3.14E-01	1	D
Office of General Services Cola. Bldg.	boiler 1	SC444	1459.537	-534.979	12.5	196	0.7	9.1	422	1.07E+00	1	D
Office of General Services Cola. Bldg.	boiler 2	SC445	1459.537	-534.979	12.5	196	0.7	9.1	422	1.07E+00	1	D
Office of General Services energy fac.	New Boiler No. 1	SC446	1459.536	-534.977	13.7	196	0.6	16.9	472	2.14E+00	1	D
Office of General Services energy fac.	Old Boiler No. 1	SC447	1459.537	-534.979	13.9	196	0.9	0.010	436	-9.46E-01	1	F
Office of General Services energy fac.	Old Boiler No. 2	SC448	1459.537	-534.979	13.9	196	0.9	0.010	436	-9.46E-01	1	F
FinnChem USA, Inc.	Boiler A & B	SC449	1501.688	-547.329	10.7	146	1.1	10.7	587	6.27E-01	1	D
Boozler Lumber Company	Air Curtain	SC450	1451.830	-537.343	6.1	319	4.0	1.3	922	6.55E-03	1	D
Office of General Services	Boiler #1	SC451	1466.378	-523.993	12.2	354	0.4	0.010	450	2.14E-01	1	D
Office of General Services	Boiler #2	SC452	1466.376	-523.999	12.2	354	0.4	0.010	450	2.14E-01	1	D
Providence Northeast	Boiler 1	SC453	1466.850	-523.001	7.6	326	0.4	0.010	492	2.87E-01	1	D
Sea Hunt Boats	DF-2	SC454	1466.739	-538.770	9.1	162	1.1	10.5	294	1.05E-03	1	D
Whitaker Container Service, Inc.	Air Curtain Incinerator	SC455	1460.455	-524.801	9.1	374	6.2	0.4	811	7.94E-02	1	D
ALSCO	Boiler	SC456	1461.335	-536.779	12.2	171	0.5	18.3	505	8.05E-01	1	D
Santee Print Works	Stack 106 Finish A	SC457	1528.434	-532.378	13.7	139	0.6	4.6	450	1.21E-03	1	D
Santee Print Works	Stack 108 Finish B	SC458	1528.434	-532.378	11.2	139	9.4	0.009	450	1.61E-03	1	D
Santee Print Works	Stack 130 Bleach Range	SC459	1528.434	-532.378	7.1	139	13.3	0.010	450	1.76E-03	1	D
Santee Print Works	Stack 44 Boiler 4	SC460	1528.434	-532.378	27.4	139	1.5	9.1	505	4.37E+01	1	D
Santee Print Works	Stack 53 SCR PRT	SC461	1528.434	-532.378	10.6	139	19.5	0.010	450	2.52E-03	1	D
Santee Print Works	Stack 69 Space Heater	SC462	1528.434	-532.378	11.0	139	8.5	0.009	450	6.30E-04	1	D
Santee Print Works	Stack 74 ASD	SC463	1528.434	-532.378	11.3	139	15.4	0.009	450	7.56E-04	1	D
Santee Print Works	Stack 79 Tint/Dye	SC464	1528.434	-532.378	10.8	139	13.2	0.010	450	8.82E-04	1	D
Shaw Air Force Base	Boiler 14007	SC465	1511.767	-530.087	10.7	270	0.3	0.010	561	5.42E-01	1	D
Shaw Air Force Base	Boiler 14008	SC466	1511.767	-530.087	10.7	270	0.5	0.010	533	4.36E-01	1	D
Shaw Air Force Base	Boiler 14013	SC467	1512.187	-529.098	7.6	269	0.4	0.010	422	2.17E-01	1	D
Shaw Air Force Base	Boiler 14014	SC468	1512.187	-529.098	7.6	269	0.3	0.010	422	1.63E-01	1	D
Shaw Air Force Base	Boiler 14015	SC469	1512.455	-529.114	7.6	254	0.4	0.010	450	2.45E-01	1	D
Shaw Air Force Base	Boiler 14017	SC470	1512.905	-528.499	9.1	253	0.4	0.010	450	2.17E-01	1	D

Table C-4 South Carolina Off-Site sources Used in Class I Area Modeling

Company Name	Emission Source	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
Shaw Air Force Base	Boiler 14018	SC471	1512.905	-528.499	9.1	253	0.4	0.010	450	2.17E-01	1	D
Shaw Air Force Base	Boiler 14040	SC472	1511.578	-530.678	7.6	268	0.2	0.010	450	1.64E-01	1	D
Shaw Air Force Base	Boiler 14043	SC473	1512.825	-528.916	7.9	248	0.4	0.010	436	1.52E-01	1	D
Shaw Air Force Base	Boiler 14044	SC474	1511.438	-530.383	9.1	296	0.2	0.010	450	1.52E-01	1	D
Shaw Air Force Base	Jet Engine Testing	SC475	1513.306	-527.890	6.1	242	8.5	45.7	589	1.21E-01	1	D
Shaw Air Force Base	Jet Engine Testing	SC476	1513.306	-527.890	6.1	242	8.5	45.7	589	1.81E-01	1	D
Carolina Golden Products	Anaerobic Flare	SC477	1524.975	-540.634	6.1	169	0.5	54.6	978	1.34E+00	1	D
Yuasa	C22 - Boiler #1	SC478	1522.462	-540.973	9.8	184	0.7	4.0	439	-3.65E-02	1	F
Yuasa	C23 - Boiler #2	SC479	1522.460	-540.970	9.8	184	0.7	4.0	439	-3.65E-02	1	F
Yuasa	C24 - Boiler #3	SC480	1522.457	-540.966	9.8	184	0.7	4.0	439	-3.65E-02	1	F
CAROLINA FURNITURE WORKS, INC	200 HP BOILER	SC481	1526.810	-533.457	8.1	155	0.6	13.1	297	2.77E-02	1	D
Sumter Casket Co.	Wood Boiler	SC482	1526.408	-533.380	25.9	166	0.8	4.7	492	-2.90E-03	1	F
Phibro-Tech, Inc.	Backup boiler	SC483	1522.699	-540.622	6.9	179	0.4	10.9	536	2.52E-03	1	D
Phibro-Tech, Inc.	Main boiler	SC484	1522.699	-540.622	12.2	179	0.5	10.2	441	1.37E+00	1	D
Phibro-Tech, Inc.	Scrubber Exhaust (Stack 17)	SC485	1522.699	-540.622	10.7	179	0.8	16.1	356	2.89E-03	1	D
Carolina Golden Products, Co.	500hp boiler	SC486	1520.416	-535.094	9.1	171	0.8	10.0	450	1.31E+00	1	D
Tuomey Regional Medical	Boiler 1	SC487	1525.720	-532.473	16.8	170	0.5	8.1	447	3.20E-01	1	D
Tuomey Regional Medical	Boiler 3	SC488	1525.720	-532.473	16.8	170	0.5	8.1	447	3.20E-01	1	D
Tuomey Regional Medical	Boiler 4	SC489	1525.720	-532.473	16.8	170	0.5	8.1	341	2.51E-01	1	D
Tuomey Regional Medical	Boiler 5	SC490	1525.720	-532.473	16.8	170	0.5	8.1	341	2.51E-01	1	D
Florence Concrete Products	6.7 MMBtu Boiler	SC491	1527.013	-534.397	7.4	163	0.5	3.3	450	4.28E-01	1	D
Florence Concrete Products	6.7 MMBtu Boiler	SC492	1527.013	-534.397	7.4	163	0.4	3.3	450	4.28E-02	1	D
MetoKote Corporation	Boiler No. 2	SC493	1524.265	-541.863	13.7	181	0.5	0.010	486	4.66E-04	1	D
Interlake Material Handling	HPL01	SC494	1523.210	-539.129	12.2	184	0.6	3.1	389	1.76E-02	1	D
Interlake Material Handling	VPL01	SC495	1523.250	-539.212	14.2	184	0.5	5.4	389	1.76E-02	1	D
Ace Textile America, Inc.	Stack 1,2,3	SC496	1527.716	-538.470	7.3	109	0.4	0.009	519	1.13E-02	1	D
Peace Textile America	Boiler 1	SC497	1528.475	-542.280	10.1	143	0.5	4.6	629	1.26E-03	1	D
Peace Textile America	Boiler 2	SC498	1528.475	-542.280	10.1	143	0.7	13.7	491	2.52E-03	1	D
City of Sumter	Stack 1	SC499	1529.683	-540.645	19.8	108	0.4	14.9	328	1.26E-03	1	D
C&C Recycling	Car Crusher	SC500	1519.566	-535.650	8.2	181	0.3	10.7	533	4.10E-02	1	D
Caterpillar Precision Pin Products	Boiler #1&2	SC501	1523.144	-527.278	13.7	179	0.4	12.7	561	9.58E-04	1	D
Caterpillar Precision Pin Products	Diesel Generator Set	SC502	1523.143	-527.274	13.7	179	0.2	21.8	672	1.29E-01	1	D
Biopure Corporation	Stack 1	SC503	1523.980	-529.127	12.2	169	0.6	0.009	469	1.21E-02	1	D
Biopure Corporation	Stack 2	SC504	1523.980	-529.127	12.2	169	0.6	0.009	469	1.21E-02	1	D
Souteastern Soil Recovery	Soil Treatment Unit	SC505	1555.463	-626.968	9.4	60	1.2	14.1	422	1.34E+00	1	D
Banks Construction Co.	Drum Mixer/Dryer	SC506	1553.738	-617.132	9.1	66	0.9	27.0	389	2.92E+00	1	D
Banks Construction Co.	Hot Oil Heater	SC507	1553.738	-617.132	4.3	66	0.3	3.3	589	1.32E-01	1	D

1. South Carolina Emission Data received via email from John Glass with the SC DHEC BAQ Modeling Section.

Table C-5 Florida Off-Site Sources Used In Class I Area PSD Modeling

Company Name	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
TALHOPK2	FL001	1210.076	-975.270	76.2	40	4.3	21.0	400	4.11E+02	1	E
GRUDH2	FL002	1414.411	-1023.116	106.7	54	5.6	15.2	408	3.67E+02	1	E
SRC1	FL003	1487.400	-1013.795	205.7	25	11.0	8.0	327	3.46E+02	2	E
CSEMELEC	FL004	1487.400	-1013.795	205.7	25	11.0	8.0	327	3.46E+02	2	E
CRIVER2	FL005	1482.017	-935.321	195.1	3	6.8	27.4	342	3.01E+02	2	E
CRIVER1	FL006	1481.998	-935.324	195.1	4	6.8	27.4	342	3.01E+02	2	E
CPB5	FL007	1483.664	-1020.407	70.7	5	2.7	18.5	503	1.97E+02	1	E
CBMILL1	FL008	1486.175	-906.382	78.4	2	3.4	15.2	454	1.91E+02	1	E
CFPLPUTM	FL009	1493.894	-1024.556	22.3	6	3.2	58.6	437	1.76E+02	1	E
CBMILL4	FL010	1486.175	-906.382	103.7	2	4.5	12.8	441	1.55E+02	1	E
BB3	FL011	1098.029	-1025.295	64.9	4	2.4	26.2	338	1.50E+02	1	E
CCB4	FL012	1483.664	-1020.407	72.2	5	2.4	21.9	500	1.45E+02	1	E
PCSSACEF	FL013	1364.208	-953.787	61.0	40	2.9	9.3	356	1.05E+02	1	E
BB4	FL014	1098.029	-1025.295	64.9	4	2.4	28.2	332	9.84E+01	1	E
PCSSACCD	FL015	1364.208	-953.787	45.7	40	1.6	28.7	356	9.66E+01	1	E
CPAPER2	FL016	1477.027	-900.731	45.7	4	3.1	7.8	326	8.88E+01	1	E
CPAPER1	FL017	1477.027	-900.731	83.8	4	4.3	2.8	450	8.74E+01	1	E
FCPPB9	FL018	1132.109	-1058.101	51.8	0	4.3	10.3	343	7.62E+01	1	E
CTRS	FL019	1483.664	-1020.407	76.2	5	0.9	32.0	533	7.56E+01	1	E
CJEAN2	FL020	1481.871	-936.975	151.0	3	4.6	19.2	331	6.97E+01	1	E
CJEAN1	FL021	1481.871	-936.975	151.0	3	4.6	19.2	331	6.97E+01	1	E
CRAY3	FL022	1485.044	-908.629	54.9	2	3.0	9.8	329	5.55E+01	1	E
CRAY1	FL023	1485.044	-908.629	54.9	2	3.0	9.8	336	5.32E+01	1	E
CRAY2	FL024	1485.044	-908.629	54.9	2	3.0	9.8	336	5.06E+01	1	E
CPB4	FL025	1483.664	-1020.407	61.0	5	1.2	21.8	475	4.52E+01	1	E
CBMILL3	FL026	1486.175	-906.382	88.1	2	3.9	18.9	484	4.51E+01	1	E
PCSAUXCD	FL027	1364.208	-953.787	31.7	40	2.0	15.2	468	4.19E+01	1	E
CBMILL2	FL028	1486.175	-906.382	80.8	2	3.5	18.6	493	4.05E+01	1	E
CMILL1	FL029	1476.191	-943.890	53.4	3	3.2	22.9	410	3.68E+01	1	E
CCBAY3	FL030	1476.787	-937.392	122.9	0	4.1	36.6	327	3.22E+01	1	E
CCBAY2	FL031	1476.787	-937.392	122.9	0	4.1	36.6	327	3.22E+01	1	E
CCBAY1	FL032	1476.787	-937.392	122.9	0	4.1	36.6	327	3.22E+01	1	E
UFCOGEN	FL033	1420.379	-1035.729	28.4	29	3.0	24.6	398	2.60E+01	1	E
CMILL2	FL034	1476.191	-943.890	61.0	3	3.0	10.7	335	2.57E+01	1	E
PCSAUXB	FL035	1364.208	-953.787	10.7	40	1.5	9.5	468	2.20E+01	1	E
PCSAUXE	FL036	1364.208	-953.787	15.3	40	1.6	15.9	428	2.15E+01	1	E
RB2	FL037	1098.029	-1025.295	71.0	4	2.0	27.5	428	1.64E+01	1	E
RB1	FL038	1098.029	-1025.295	71.0	4	2.0	26.5	421	1.64E+01	1	E
CPAPER4	FL039	1477.027	-900.731	76.2	4	2.6	12.2	411	1.58E+01	1	E
CPAPER3	FL040	1477.027	-900.731	54.9	4	2.1	16.8	425	1.52E+01	1	E
CRB4	FL041	1483.664	-1020.407	70.1	5	3.7	19.4	478	1.39E+01	1	E
S3	FL042	1446.190	-954.061	57.9	25	5.5	21.3	403	1.38E+01	1	E
S2FO	FL043	1446.251	-954.051	57.9	25	5.5	21.3	403	1.38E+01	1	E
BCBB12	FL044	1107.617	-1010.087	38.1	15	1.4	17.5	478	9.02E+00	1	E
BAYENERGY	FL045	1107.624	-1010.149	38.1	15	1.4	17.5	478	9.00E+00	1	E
TALPURD8	FL046	1234.020	-1004.764	60.9	0	5.0	15.4	353	7.82E+00	1	E
GRUDHCC	FL047	1414.213	-1023.151	15.9	53	4.3	51.2	867	6.68E+00	1	E

Table C-5 Florida Off-Site Sources Used In Class I Area PSD Modeling

Company Name	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
GRULKCC1	FL048	1422.806	-1034.372	31.1	43	4.7	19.0	390	6.50E+00	1	E
FRKILN2	FL049	1396.492	-1033.319	95.9	24	2.9	16.0	453	4.41E+00	1	E
SUWKILN2	FL050	1366.434	-1007.683	96.0	17	2.9	24.3	375	4.31E+00	1	E
CMCHEM	FL051	1472.864	-943.002	13.7	5	1.2	5.5	450	4.01E+00	1	E
FRKILN	FL052	1396.492	-1033.319	76.2	24	2.9	14.6	453	3.63E+00	1	E
SUWKILN	FL053	1366.515	-1007.566	96.0	17	2.9	14.1	369	3.58E+00	1	E
CBMILL5	FL054	1486.175	-906.382	22.9	2	1.7	16.8	436	3.37E+00	1	E
CPAPER5	FL055	1477.027	-900.731	30.5	4	1.5	11.6	350	2.13E+00	1	E
CPB6	FL056	1483.664	-1020.407	18.3	5	1.8	17.4	622	1.40E+00	1	E
CLK4	FL057	1483.664	-1020.407	39.9	5	1.4	18.5	339	1.37E+00	1	E
CMILL3	FL058	1476.191	-943.890	64.0	3	1.4	11.0	346	1.31E+00	1	E
LK4	FL059	1300.361	-1005.660	38.1	17	2.2	15.2	511	1.12E+00	1	E
CBUSCH2	FL060	1475.550	-936.330	6.1	6	0.6	126.1	811	1.07E+00	1	E
CBUSCH1	FL061	1475.550	-936.330	6.1	6	0.6	126.1	811	1.07E+00	1	E
CSDT4	FL062	1483.664	-1020.407	62.8	5	1.5	6.5	344	1.00E+00	1	E
GPHOS1	FL063	1174.559	-981.609	39.6	58	2.6	15.3	399	8.50E-01	1	E
CS3	FL064	1478.138	-937.307	61.0	4	2.4	5.2	439	7.20E-01	1	E
CS2	FL065	1478.138	-937.307	61.0	4	2.4	5.2	439	7.20E-01	1	E
CS1	FL066	1478.138	-937.307	61.0	4	2.4	5.2	439	7.20E-01	1	E
PCSDAPZ	FL067	1364.208	-953.787	42.7	40	2.4	13.1	325	6.90E-01	1	E
LK1	FL068	1098.029	-1025.295	18.6	4	2.4	11.8	348	5.90E-01	1	E
RB4	FL069	1300.039	-1005.828	68.6	16	2.9	25.8	500	2.30E-01	1	E
SDT2	FL070	1098.029	-1025.295	71.0	4	1.8	4.6	347	1.30E-01	1	E
SDT1	FL071	1098.029	-1025.295	71.0	4	1.8	5.3	347	1.30E-01	1	E
COMBO	FL072	1300.126	-1005.781	68.6	17	4.0	19.0	367	1.20E-01	1	E
CJEAN3	FL073	1481.911	-936.794	22.9	3	1.0	15.2	347	3.50E-02	1	E
CCBAY5	FL074	1476.787	-937.392	19.2	0	1.3	28.4	301	3.00E-02	1	E
CCBAY4	FL075	1476.787	-937.392	19.2	0	1.3	28.4	301	3.00E-02	1	E
SDT4	FL076	1300.052	-1005.819	49.4	16	1.2	12.9	342	1.00E-02	1	E
GPHOS10	FL077	1174.559	-981.609	42.0	58	1.7	6.4	644	5.00E-03	1	E
SFP	FL078	1446.368	-954.025	7.3	25	0.2	60.0	616	4.20E-03	1	E
GPHOS2	FL079	1174.559	-981.609	30.5	58	2.2	18.5	341	1.00E-03	1	E
CSJRPP12	FL080	1481.967	-935.143	195.1	3	6.8	27.4	342	0.00E+00	2	E
ESDT1	FL081	1483.664	-1020.407	30.5	5	0.8	7.5	366	-1.30E-01	1	F
ESDT3	FL082	1483.664	-1020.407	33.2	5	0.8	3.6	369	-1.80E-01	1	F
ESDT2	FL083	1483.664	-1020.407	30.5	5	0.9	9.5	375	-1.80E-01	1	F
EBMILL7	FL084	1486.175	-906.382	69.5	2	1.8	5.2	350	-2.00E-01	1	F
ELK2	FL085	1483.664	-1020.407	15.9	5	1.7	10.7	341	-2.40E-01	1	F
ELK1	FL086	1483.664	-1020.407	15.2	5	1.3	5.2	401	-2.40E-01	1	F
ES23	FL087	1478.138	-937.307	36.6	4	1.1	4.0	344	-3.50E-01	1	F
ES9	FL088	1478.138	-937.307	36.6	4	1.1	4.0	344	-3.70E-01	1	F
ES25	FL089	1478.138	-937.307	37.8	4	1.2	4.3	344	-4.50E-01	1	F
ES24	FL090	1478.138	-937.307	37.8	4	1.2	4.3	344	-4.50E-01	1	F
ES11	FL091	1478.138	-937.307	37.8	4	1.2	4.3	344	-4.70E-01	1	F
ES10	FL092	1478.138	-937.307	37.8	4	1.2	4.3	344	-4.70E-01	1	F
ELK3	FL093	1483.664	-1020.407	15.9	5	1.7	8.5	342	-4.80E-01	1	F
ES26	FL094	1478.138	-937.307	21.0	4	1.8	3.1	343	-5.60E-01	1	F

Table C-5 Florida Off-Site Sources Used In Class I Area PSD Modeling

Company Name	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
ES28	FL095	1478.138	-937.307	22.9	4	1.1	8.2	336	-6.60E-01	1	F
ES27	FL096	1478.138	-937.307	22.9	4	1.4	6.5	336	-6.70E-01	1	F
EBMILL8	FL097	1486.175	-906.382	33.2	2	0.6	5.8	360	-6.90E-01	1	F
ESDT4	FL098	1483.664	-1020.407	62.8	5	1.5	8.3	346	-7.10E-01	1	F
ES14	FL099	1478.138	-937.307	22.9	4	1.1	8.2	336	-8.20E-01	1	F
ES13	FL100	1478.138	-937.307	22.9	4	1.4	6.5	336	-8.20E-01	1	F
ES12	FL101	1478.138	-937.307	21.0	4	1.8	3.1	343	-8.20E-01	1	F
EMILL2	FL102	1476.191	-943.890	15.8	3	1.5	6.7	347	-9.80E-01	1	F
EBMILL6	FL103	1486.175	-906.382	13.4	2	1.4	17.6	360	-1.30E+00	1	F
EBMILL5	FL104	1486.175	-906.382	13.4	2	1.1	12.3	361	-1.30E+00	1	F
ELK4	FL105	1483.664	-1020.407	45.4	5	1.3	16.5	351	-1.40E+00	1	F
ERB1	FL106	1483.664	-1020.407	76.2	5	3.7	8.8	360	-6.21E+00	1	F
EPAPER4	FL107	1477.027	-900.731	53.3	4	1.6	25.2	394	-7.60E+00	1	F
EPAPER3	FL108	1477.027	-900.731	47.2	4	2.3	13.1	426	-7.60E+00	1	F
ES15	FL109	1478.138	-937.307	41.5	4	2.5	13.0	332	-7.85E+00	1	F
EMCHEM	FL110	1472.864	-943.002	12.2	5	1.1	10.1	658	-8.49E+00	1	F
ERB3	FL111	1483.664	-1020.407	40.5	5	3.4	7.3	372	-8.58E+00	1	F
ERB2	FL112	1483.664	-1020.407	76.2	5	3.7	8.8	372	-8.88E+00	1	F
ES16	FL113	1478.138	-937.307	41.5	4	2.5	13.0	332	-9.35E+00	1	F
EBMILL4	FL114	1486.175	-906.382	40.8	2	2.7	13.3	390	-1.05E+01	1	F
ES20	FL115	1478.138	-937.307	38.4	4	2.6	16.0	341	-1.23E+01	1	F
ES6	FL116	1478.138	-937.307	38.4	4	2.6	16.0	341	-1.29E+01	1	F
ES21	FL117	1478.138	-937.307	38.4	4	2.7	15.6	345	-1.57E+01	1	F
EPAPER5	FL118	1477.027	-900.731	76.2	4	2.6	22.1	427	-1.58E+01	1	F
ES22	FL119	1478.138	-937.307	38.4	4	2.7	14.6	344	-1.59E+01	1	F
ES8	FL120	1478.138	-937.307	38.4	4	2.7	14.6	344	-1.65E+01	1	F
ES7	FL121	1478.138	-937.307	38.4	4	2.7	15.6	345	-1.65E+01	1	F
EMILL1	FL122	1476.191	-943.890	53.4	3	3.2	22.9	410	-1.68E+01	1	F
ERB4	FL123	1483.664	-1020.407	70.1	5	3.7	16.9	474	-3.50E+01	1	F
EBMILL3	FL124	1486.175	-906.382	75.9	2	3.5	18.8	493	-3.51E+01	1	F
EMILL3	FL125	1476.191	-943.890	76.2	3	3.8	8.0	455	-3.65E+01	1	F
PCSSADE	FL126	1364.208	-953.787	45.7	40	1.6	28.7	356	-3.78E+01	1	F
PCSSACE	FL127	1364.208	-953.787	45.7	40	1.6	28.7	356	-3.78E+01	1	F
ERAY	FL128	1485.044	-908.629	54.9	2	3.0	9.8	329	-3.98E+01	1	F
ES17	FL129	1478.138	-937.307	32.3	4	1.8	14.0	455	-4.07E+01	1	F
ES3	FL130	1478.138	-937.307	32.3	4	1.8	14.0	455	-4.21E+01	1	F
EPB4	FL131	1483.664	-1020.407	37.2	5	1.2	14.5	477	-4.52E+01	1	F
JEASS2	FL132	1474.931	-949.635	40.7	2	2.4	15.5	446	-5.27E+01	1	F
JEASS1	FL133	1474.935	-949.655	40.7	2	2.4	15.5	446	-5.27E+01	1	F
ES2	FL134	1478.138	-937.307	41.5	4	2.5	13.0	332	-5.78E+01	1	F
ES1	FL135	1478.138	-937.307	41.5	4	2.5	13.0	332	-5.78E+01	1	F
ES19	FL136	1478.138	-937.307	32.3	4	2.1	14.5	439	-5.94E+01	1	F
ES18	FL137	1478.138	-937.307	32.3	4	2.1	14.5	439	-5.96E+01	1	F
EPAPER2	FL138	1477.027	-900.731	36.6	4	1.8	20.0	700	-5.99E+01	1	F
ES5	FL139	1478.138	-937.307	32.3	4	2.1	14.5	439	-6.12E+01	1	F
ES4	FL140	1478.138	-937.307	32.3	4	2.1	14.5	439	-6.16E+01	1	F

Table C-5 Florida Off-Site Sources Used In Class I Area PSD Modeling

Company Name	Modeled Source ID	LCC East (km)	LCC North (km)	Stack Height (m)	Base Elev. (m)	Stack Diam. (m)	Exit Vel. (m/s)	Exit Temp. (K)	SO ₂ Emission Rate (g/s)	SO ₂ rate Citation	Bin Group
KNDY9	FL141	1476.389	-944.029	45.7	2	3.2	12.2	416	-7.50E+01	1	F
EKEN	FL142	1476.307	-943.972	45.7	2	3.2	10.4	394	-7.51E+01	1	F
JEASS3	FL143	1474.935	-949.611	40.7	2	3.1	13.4	424	-7.98E+01	1	F
KNDY10B	FL144	1476.409	-944.056	41.5	2	2.7	24.3	427	-9.25E+01	1	F
KNDY10A	FL145	1476.411	-944.066	41.5	2	2.7	24.3	427	-9.25E+01	1	F
JEASS5B	FL146	1474.955	-949.701	44.2	2	3.0	21.3	415	-1.04E+02	1	F
JEASS5A	FL147	1474.954	-949.693	44.2	2	3.0	21.3	415	-1.04E+02	1	F
GRUJK8	FL148	1422.806	-1034.372	61.0	43	3.2	11.9	406	-1.08E+02	1	F
JEASS4	FL149	1474.922	-949.583	43.7	2	3.3	18.5	408	-1.10E+02	1	F
ECB4	FL150	1483.664	-1020.407	72.9	5	3.1	10.5	477	-1.21E+02	1	F
EBMILL1	FL151	1486.175	-906.382	69.2	2	2.4	16.9	483	-1.45E+02	1	F
PCSSAB	FL152	1364.208	-953.787	61.0	40	1.8	15.5	350	-1.52E+02	1	F
PCSSAA	FL153	1364.208	-953.787	61.0	40	1.8	15.5	350	-1.52E+02	1	F
EPB5	FL154	1483.664	-1020.407	72.9	5	2.7	16.0	520	-1.61E+02	1	F
EBMILL2	FL155	1486.175	-906.382	69.2	2	3.4	16.3	480	-1.70E+02	1	F
EFPLPALA	FL156	1493.399	-1024.644	45.7	0	4.0	9.5	408	-2.57E+02	1	F
EPAPER1	FL157	1477.027	-900.731	83.8	4	4.3	7.3	450	-2.81E+02	1	F
EJEAN2	FL158	1482.082	-936.784	88.4	3	5.0	13.1	394	-5.85E+02	1	F
EJEAN1	FL159	1482.140	-936.764	76.2	3	4.9	23.1	403	-6.91E+02	1	F

1. Text file (NEPSDINVS02.txt) received from Cleve Holiday
2. National Emission Inventory Database

Table C-6 1974 Summary Table of the Worst Case Meteorological Condition Analysis for Louisville Municipal Airport

Dispersion Condition	Wind Speed	SigmaZ*u	Transport Time	Frequency of Occurrence of Given Dispersion Condition Associated with Worst-Case Wind Direction for Given Time of Day (percent)				Frequency (f) and Cumulative Frequency (cf) (percent)	
				0-6	6-12	12-18	18-24	f	cf
-	m/s	m ² /s	hours						
F	2	126	3.93	0.02%	0.00%	0.00%	0.00%	0.02%	0.02%
F	3	189	2.36	0.33%	0.00%	0.00%	0.08%	0.33%	0.35%
D	1	250	11.78	0.00%	0.00%	0.01%	0.00%	0.01%	0.37%
F	4	252	1.68	0.06%	0.00%	0.00%	0.05%	0.06%	0.42%
E	2	254	3.93	0.00%	0.01%	0.00%	0.00%	0.01%	0.43%
E	3	381	2.36	0.08%	0.02%	0.00%	0.07%	0.08%	0.51%
D	2	500	3.93	0.00%	0.02%	0.00%	0.01%	0.02%	0.54%
E	4	508	1.68	0.14%	0.03%	0.02%	0.07%	0.14%	0.67%
E	5	635	1.31	0.07%	0.00%	0.00%	0.13%	0.13%	0.80%
D	3	750	2.36	0.07%	0.15%	0.05%	0.06%	0.15%	0.95%
E	6	762	1.07	0.00%	0.01%	0.00%	0.06%	0.06%	1.00%

Table C-7 1975 Summary Table of the Worst Case Meteorological Condition Analysis for Louisville Municipal Airport

Dispersion Condition	Wind Speed	SigmaZ*u	Transport Time	Frequency of Occurrence of Given Dispersion Condition Associated with Worst-Case Wind Direction for Given Time of Day (percent)				Frequency (f) and Cumulative Frequency (cf) (percent)	
				0-6	6-12	12-18	18-24	f	cf
-	m/s	m ² /s	hours						
F	2	126	3.93	0.01%	0.02%	0.00%	0.02%	0.02%	0.02%
F	3	189	2.36	0.29%	0.02%	0.00%	0.15%	0.29%	0.31%
F	4	252	1.68	0.09%	0.00%	0.00%	0.03%	0.09%	0.40%
E	2	254	3.93	0.01%	0.01%	0.00%	0.02%	0.02%	0.42%
F	5	315	1.31	0.00%	0.00%	0.00%	0.01%	0.01%	0.43%
E	3	381	2.36	0.09%	0.08%	0.02%	0.10%	0.10%	0.54%
D	2	500	3.93	0.01%	0.02%	0.00%	0.01%	0.02%	0.56%
E	4	508	1.68	0.14%	0.02%	0.01%	0.14%	0.14%	0.70%
E	5	635	1.31	0.15%	0.00%	0.01%	0.08%	0.15%	0.84%
D	3	750	2.36	0.03%	0.10%	0.05%	0.09%	0.10%	0.95%
E	6	762	1.07	0.03%	0.00%	0.00%	0.01%	0.03%	0.98%
D	4	1000	1.68	0.08%	0.16%	0.13%	0.09%	0.16%	1.14%

Table C-8 1976 Summary Table of the Worst Case Meteorological Condition Analysis for Louisville Municipal Airport

Dispersion Condition	Wind Speed	SigmaZ*u	Transport Time	Frequency of Occurrence of Given Dispersion Condition Associated with Worst-Case Wind Direction for Given Time of Day (percent)				Frequency (f) and Cumulative Frequency (cf) (percent)	
				0-6	6-12	12-18	18-24	f	cf
-	m/s	m ² /s	hours						
F	2	126	3.93	0.02%	0.00%	0.00%	0.05%	0.05%	0.05%
F	3	189	2.36	0.22%	0.02%	0.00%	0.08%	0.22%	0.26%
F	4	252	1.68	0.10%	0.00%	0.00%	0.06%	0.10%	0.37%
E	2	254	3.93	0.00%	0.02%	0.00%	0.01%	0.02%	0.39%
F	5	315	1.31	0.01%	0.00%	0.00%	0.00%	0.01%	0.40%
E	3	381	2.36	0.05%	0.06%	0.02%	0.08%	0.08%	0.48%
D	2	500	3.93	0.00%	0.02%	0.00%	0.00%	0.02%	0.50%
E	4	508	1.68	0.14%	0.01%	0.01%	0.09%	0.14%	0.64%
E	5	635	1.31	0.11%	0.01%	0.01%	0.11%	0.11%	0.75%
D	3	750	2.36	0.07%	0.13%	0.05%	0.05%	0.13%	0.88%
E	6	762	1.07	0.01%	0.00%	0.00%	0.05%	0.05%	0.92%
D	4	1000	1.68	0.09%	0.16%	0.10%	0.11%	0.16%	1.08%

Table C-9 1977 Summary Table of the Worst Case Meteorological Condition Analysis for Louisville Municipal Airport

Dispersion Condition	Wind Speed	SigmaZ*u	Transport Time	Frequency of Occurrence of Given Dispersion Condition Associated with Worst-Case Wind Direction for Given Time of Day (percent)				Frequency (f) and Cumulative Frequency (cf) (percent)	
				0-6	6-12	12-18	18-24	f	cf
-	m/s	m ² /s	hours						
F	2	126	3.93	0.01%	0.00%	0.00%	0.00%	0.01%	0.01%
F	3	189	2.36	0.22%	0.01%	0.00%	0.10%	0.22%	0.23%
F	4	252	1.68	0.09%	0.00%	0.00%	0.09%	0.09%	0.32%
E	2	254	3.93	0.00%	0.01%	0.00%	0.01%	0.01%	0.33%
E	3	381	2.36	0.05%	0.01%	0.02%	0.07%	0.07%	0.40%
D	2	500	3.93	0.00%	0.01%	0.00%	0.05%	0.05%	0.45%
E	4	508	1.68	0.05%	0.00%	0.01%	0.22%	0.22%	0.66%
E	5	635	1.31	0.11%	0.00%	0.01%	0.15%	0.15%	0.81%
D	3	750	2.36	0.05%	0.10%	0.09%	0.05%	0.10%	0.91%
E	6	762	1.07	0.01%	0.00%	0.00%	0.07%	0.07%	0.98%
D	4	1000	1.68	0.07%	0.08%	0.10%	0.07%	0.10%	1.08%

Table C-10 1978 Summary Table of the Worst Case Meteorological Condition Analysis for Louisville Municipal Airport

Dispersion Condition	Wind Speed	SigmaZ*u	Transport Time	Frequency of Occurrence of Given Dispersion Condition Associated with Worst-Case Wind Direction for Given Time of Day (percent)				Frequency (f) and Cumulative Frequency (cf) (percent)	
				0-6	6-12	12-18	18-24	f	cf
-	m/s	m ² /s	hours						
F	2	126	3.93	0.06%	0.01%	0.00%	0.00%	0.06%	0.06%
F	3	189	2.36	0.09%	0.00%	0.00%	0.06%	0.09%	0.15%
F	4	252	1.68	0.08%	0.00%	0.00%	0.02%	0.08%	0.23%
E	2	254	3.93	0.00%	0.00%	0.00%	0.02%	0.02%	0.25%
F	5	315	1.31	0.01%	0.00%	0.00%	0.00%	0.01%	0.26%
E	3	381	2.36	0.07%	0.03%	0.01%	0.07%	0.07%	0.33%
D	2	500	3.93	0.01%	0.01%	0.02%	0.00%	0.02%	0.35%
E	4	508	1.68	0.14%	0.03%	0.01%	0.08%	0.14%	0.49%
E	5	635	1.31	0.13%	0.01%	0.00%	0.11%	0.13%	0.62%
D	3	750	2.36	0.09%	0.14%	0.11%	0.08%	0.14%	0.75%
E	6	762	1.07	0.03%	0.00%	0.00%	0.05%	0.05%	0.80%
D	4	1000	1.68	0.09%	0.22%	0.10%	0.06%	0.22%	1.02%

Table C-11: Ambient Air Concentration Development

Pollutant	Air Unit Risk (m ³ /mg)	Weight of Evidence	Cancer Risk	RBAC (mg/m ³)	RfDi (mg/kg-d)	Rfc (mg/m3)	PEL (mg/m ³)	PEL Adj (mg/m ³)	PEL-C (mg/m ³)	PEL-C Adj (mg/m ³)	TLV-TWA (mg/m ³)	TLV-TWA Adj (mg/m ³)	TLC-STEL (mg/m ³)	TLC-STEL adj (mg/m ³)	TLV-C (mg/m ³)	TLV-Adj (mg/m ³)	REL-TWA (mg/m ³)	REL-TWA Adj (mg/m ³)	REL-STEL (mg/m ³)	REL-STEL Adj (mg/m ³)	REL-C (mg/m ³)	REL-C Adj (mg/m ³)	LD 50 ¹ (mg/kg)	AAC - Annual (mg/m ³)	AAC - 24-hr (mg/m ³)	Short Term Limit (mg/m ³)	
Sulfuric Acid (H ₂ SO ₄)			-	-	-	-	1	2.38E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0E+00	2.38E-03	-	
Tetrachloroethylene			-	-	-	-	678	1.61	1356	135.60	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0E+00	1.61	135.60	
Toluene			-	-	1.43	5.00	-	-	1131	113.10	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0E+00	-	113.10	
1,1,1-Trichloroethane		D	-	-	-	-	1900	4.52	-	-	-	-	-	-	-	-	-	-	-	-	1900	190.00	-	0.0E+00	4.52	190.00	
Vinyl acetate			-	-	0.057	0.20	-	-	-	-	-	-	52.82	5.28	-	-	-	-	-	-	15	1.50	-	2.0E-01	-	5.28	
Xylene			-	-	0.029	0.10	-	-	-	-	-	-	651.29	65.13	-	-	435	1.04	655	65.50	-	-	-	1.0E-01	-	65.13	
Metals																											
Antimony			-	-	-	-	0.5	1.19E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0E+00	1.19E-03	-
Arsenic	4.3	A	1.00E-06	2.33E-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.002	2.00E-04	-	2.3E-07	-	2.00E-04	
Barium		D	-	-	0.00014	4.90E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9E-04	-	-	
Beryllium	2.4	B	1.00E-05	4.17E-06	0.01	0.02000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.2E-06	-	-	
Cadmium	1.8	B	1.00E-05	5.56E-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6E-06	-	-	
Chromium, total			-	-	-	-	1	2.38E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0E+00	2.38E-03	-	
Chromium, hexavalent	12	A	1.00E-06	8.33E-08	-	1.00E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3E-08	-	-	
Cobalt			-	-	-	-	0.1	2.38E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0E+00	2.38E-04	-	
Copper		D	-	-	-	-	0.1	2.38E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0E+00	2.38E-04	-	
Lead		B	1.00E-05	-	-	-	0.05	1.19E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0E+00	1.19E-04	-	
Mercury		D	-	-	8.6E-05	0.00030	-	-	0.1	0.01	-	-	-	-	-	-	-	-	-	-	0.1	0.01	-	3.0E-04	-	0.01	
Magnesium			-	-	-	-	-	-	-	-	10	0.02	-	-	-	-	-	-	-	-	-	-	-	0.0E+00	0.02	-	
Manganese		D	-	-	0.000014	0.00005	-	-	5	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9E-05	-	0.50	
Molybdenum			-	-	-	-	15	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0E+00	0.04	-	
Nickel			-	-	-	-	1	2.38E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0E+00	2.38E-03	-	
Selenium		D	-	-	-	-	0.2	4.76E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0E+00	4.76E-04	-	
Vanadium			-	-	-	-	-	-	0.1	0.01	0.05	1.19E-04	-	-	-	-	-	-	-	-	-	-	-	0.0E+00	1.19E-04	0.01	
Zinc			-	-	-	-	-	-	-	-	2	4.76E-03	10	1.00	-	-	-	-	-	-	-	-	-	0.0E+00	4.76E-03	1.00	

1. from review of MSDS for substances
2. No Toxicity data available for Benzo(g,h,i)perylene and Benzo(g,h,i)pyrene therefore assumed to be same as Benzo(e)pyrene
3. No Toxicity data available for 7,12-Dimethylbenz(a)anthracene and Fluorene therefore assumed to be same as anthracene
4. No Toxicity data available for 5-Methyl chrysene therefore assumed to be same as chrysene
5. No Toxicity data available for Zinc therefore assumed to be same as Zinc Oxide

Table C-12: Toxic Emission Calculations: Main Boiler

Basis:
 Coal Consumption Rate 431 ton Coal/hr
 Fuel Oil Consumption Rate 9286 gal/hr

Compound	Pulverized Coal ¹			Fuel Oil ²			Worst Case Emissions (lb/hr)
	Emission Factor	Units	Hourly Emissions (lb/hr)	Emission Factor	Units	Hourly Emissions (lb/hr)	
<i>Organics</i>							
Acenaphthene	5.10E-07	lb/ton	2.20E-04	2.1E-05	lb/1,000 gal	2.0E-04	2.2E-04
Acenaphthylene	2.50E-07	lb/ton	1.08E-04	2.5E-07	lb/1,000 gal	2.3E-06	1.1E-04
Acetaldehyde	5.70E-04	lb/ton	2.46E-01				2.5E-01
Acetophenone	1.50E-05	lb/ton	6.47E-03				6.5E-03
Acrolein	2.90E-04	lb/ton	1.25E-01				1.3E-01
Anthracene	2.10E-07	lb/ton	9.05E-05	1.2E-06	lb/1,000 gal	1.1E-05	9.1E-05
Benzene	1.30E-03	lb/ton	5.60E-01	2.14E-04	lb/1,000 gal	2.0E-03	5.6E-01
Benzo(a)anthracene	8.00E-08	lb/ton	3.45E-05	4.0E-06	lb/1,000 gal	3.7E-05	3.7E-05
Benzo(a)pyrene	3.80E-08	lb/ton	1.64E-05				1.6E-05
Benzo(b)fluoranthene							
Benzo(g,h,i)perylene				2.26E-06	lb/1,000 gal	2.1E-05	2.1E-05
Benzo(g,h,i)pyrene	2.70E-08	lb/ton	1.16E-05				1.2E-05
Benzo(b,k)fluoranthene	1.10E-07	lb/ton	4.74E-05	1.48E-06	lb/1,000 gal	1.4E-05	4.7E-05
Benzo(k)fluoranthene							
Benzyl chloride	7.00E-04	lb/ton	3.02E-01				3.0E-01
Biphenyl	1.70E-06	lb/ton	7.33E-04				7.3E-04
bis(2-Ethylhexyl)phthalate	7.30E-05	lb/ton	3.15E-02				3.1E-02
Bromoform	3.90E-05	lb/ton	1.68E-02				1.7E-02
Butane							
2-Butanone (MEK)	3.90E-04	lb/ton	1.68E-01				1.7E-01
Carbon disulfide	1.30E-04	lb/ton	5.60E-02				5.6E-02
Chlorobenzene	2.20E-05	lb/ton	9.48E-03				9.5E-03
Chloroform	5.90E-05	lb/ton	2.54E-02				2.5E-02
Chloromethane	5.30E-04	lb/ton	2.28E-01				2.3E-01
2-Chloroacetophenone	7.00E-06	lb/ton	3.02E-03				3.0E-03
Chrysene	1.00E-07	lb/ton	4.31E-05	2.4E-06	lb/1,000 gal	2.2E-05	4.3E-05
Cumene	5.30E-06	lb/ton	2.28E-03				2.3E-03
Cyanide	2.50E-03	lb/ton	1.08E+00				1.1E+00
Dibenzo(a,h)anthracene				1.7E-06	lb/1,000 gal	1.6E-05	1.6E-05
Dichlorobenzene							
Dimethyl sulfate	4.80E-05	lb/ton	2.07E-02				2.1E-02
7,12-Dimethylbenz(a)anthracene							
2,4-Dinitrotoluene	2.80E-07	lb/ton	1.21E-04				1.2E-04
Ethane							
Ethylbenzene	9.40E-05	lb/ton	4.05E-02	6.36E-05	lb/1,000 gal	5.9E-04	4.1E-02
Ethyl Chloride	4.20E-05	lb/ton	1.81E-02				1.8E-02
Ethylene dichloride	4.00E-05	lb/ton	1.72E-02				1.7E-02
Ethylene dibromide	1.20E-06	lb/ton	5.17E-04				5.2E-04
Fluoranthene	7.10E-07	lb/ton	3.06E-04	4.8E-06	lb/1,000 gal	4.5E-05	3.1E-04
Fluorene	9.10E-07	lb/ton	3.92E-04	4.5E-06	lb/1,000 gal	4.2E-05	3.9E-04
Formaldehyde	2.40E-04	lb/ton	1.03E-01	3.3E-02	lb/1,000 gal	3.1E-01	3.1E-01
Hexane	6.70E-05	lb/ton	2.89E-02				2.9E-02
Hydrogen chloride	1.20E+00	lb/ton	517.2414				517.24
Indeno(1,2,3,c,d)pyrene	6.10E-08	lb/ton	2.63E-05	2.1E-06	lb/1,000 gal	2.0E-05	2.6E-05
Isophorone	5.80E-04	lb/ton	2.50E-01				2.5E-01
Methyl Bromide	1.60E-04	lb/ton	6.90E-02				6.90E-02
Methyl hydrazine	1.70E-04	lb/ton	7.33E-02				7.3E-02
MMA	2.00E-05	lb/ton	8.62E-03				8.6E-03
2-Methylnaphthalene							
3-Methylchloranthrene							
MTBE	3.50E-05	lb/ton	1.51E-02				1.5E-02
Methylene chloride	2.90E-04	lb/ton	1.25E-01				1.3E-01
Naphthalene	1.30E-05	lb/ton	5.60E-03	1.13E-03	lb/1,000 gal	1.0E-02	1.0E-02
5-Methyl chrysene	2.20E-08	lb/ton	9.48E-06				9.5E-06
OCDD				3.10E-09	lb/1,000 gal	2.9E-08	2.9E-08
Phenanthrene	2.70E-06	lb/ton	1.16E-03	1.1E-05	lb/1,000 gal	9.8E-05	1.2E-03
Phenol	1.60E-05	lb/ton	6.90E-03				6.9E-03
Propane							

Table C-12: Toxic Emission Calculations: Main Boiler

Basis:
 Coal Consumption Rate 431 ton Coal/hr
 Fuel Oil Consumption Rate 9286 gal/hr

Compound	Pulverized Coal ¹			Fuel Oil ²			Worst Case Emissions (lb/hr)
	Emission Factor	Units	Hourly Emissions (lb/hr)	Emission Factor	Units	Hourly Emissions (lb/hr)	
Propionaldehyde	3.80E-04	lb/ton	1.64E-01				1.6E-01
Pyrene	3.30E-07	lb/ton	1.42E-04	4.3E-06	lb/1,000 gal	3.9E-05	1.4E-04
Styrene	2.50E-05	lb/ton	1.08E-02				1.1E-02
Sulfuric Acid (H ₂ SO ₄)			-				-
Tetrachloroethylene	4.30E-05	lb/ton	1.85E-02				1.9E-02
Toluene	2.40E-04	lb/ton	1.03E-01	6.20E-03	lb/1,000 gal	5.8E-02	1.0E-01
1,1,1-Trichloroethane	2.00E-05	lb/ton	8.62E-03	2.36E-04	lb/1,000 gal	2.2E-03	8.6E-03
Vinyl acetate	7.60E-06	lb/ton	3.28E-03				3.3E-03
Xylene	3.70E-05	lb/ton	1.59E-02	1.09E-04	lb/1,000 gal	1.0E-03	1.6E-02
			-				-
<i>Metals</i>			-				-
Antimony	1.80E-05	lb/ton	7.76E-03				7.8E-03
Arsenic	4.10E-04	lb/ton	1.77E-01	5.6E-04	lb/1,000 gal	5.2E-03	1.8E-01
Barium			-				-
Beryllium	2.10E-05	lb/ton	9.05E-03	4.2E-04	lb/1,000 gal	3.9E-03	9.1E-03
Cadmium	5.10E-05	lb/ton	2.20E-02	4.2E-04	lb/1,000 gal	3.9E-03	2.2E-02
Chromium, total	2.60E-04	lb/ton	1.12E-01	4.2E-04	lb/1,000 gal	3.9E-03	1.1E-01
Chromium, hexavalent	7.90E-05	lb/ton	3.41E-02				3.4E-02
Cobalt	1.00E-04	lb/ton	4.31E-02				4.3E-02
Copper			-	8.4E-04	lb/1,000 gal	7.8E-03	7.8E-03
Lead	4.20E-04	lb/ton	1.81E-01	1.3E-03	lb/1,000 gal	1.2E-02	1.8E-01
Mercury	See Boiler Calculations		1.28E-02	4.2E-04	lb/1,000 gal	3.9E-03	1.3E-02
Magnesium	1.10E-02	lb/ton	4.74E+00				4.7E+00
Manganese	4.90E-04	lb/ton	2.11E-01	8.4E-04	lb/1,000 gal	7.8E-03	2.1E-01
Molybdenum			-				-
Nickel	2.80E-04	lb/ton	1.21E-01	4.2E-04	lb/1,000 gal		1.2E-01
Selenium	1.30E-03	lb/ton	5.60E-01	2.1E-03	lb/1,000 gal	2.0E-02	5.6E-01
Vanadium			-				-
Zinc			-	5.6E-04	lb/1,000 gal	5.2E-03	5.2E-03

1)AP-42 Table 1.1-13, 1.1-14, & 1.1-18
 2)AP-42 Tables 1.3-9 & 1.3-10

Table C-13: Toxic Emission Calculations: Auxiliary Boiler

Basis:
 Fuel Oil Consumption 1,690 gal/hr

Compound	Fuel Oil ¹		
	Emission Factor	Units	Hourly Emissions (lb/hr)
<i>Organics</i>			
Acenaphthene	2.1E-05	lb/1,000 gal	3.57E-05
Acenaphthylene	2.5E-07	lb/1,000 gal	4.28E-07
Acetaldehyde			
Acetophenone			
Acrolein			
Anthracene	1.2E-06	lb/1,000 gal	2.06E-06
Benzene	2.14E-04	lb/1,000 gal	3.62E-04
Benzo(a)anthracene	4.0E-06	lb/1,000 gal	6.78E-06
Benzo(a)pyrene			
Benzo(b)fluoranthene			
Benzo(g,h,i)perylene	2.26E-06	lb/1,000 gal	3.82E-06
Benzo(g,h,i)pyrene			
Benzo(k)fluoranthene	1.48E-06	lb/1,000 gal	2.50E-06
Benzo(k)fluoranthene			
Benzyl chloride			
Biphenyl			
bis(2-Ethylhexyl)phthalate			
Butane			
2-Butanone (MEK)			
Carbon disulfide			
Chlorobenzene			
Chloroform			
Chloromethane			
2-Chloroacetophenone			
Chrysene	2.4E-06	lb/1,000 gal	4.02E-06
Cumene			
Cyanide			
Dibenzo(a,h)anthracene	1.7E-06	lb/1,000 gal	2.82E-06
Dichlorobenzene			
Dimethyl sulfate			
7,12-Dimethylbenz(a)anthracene			
2,4-Dinitrotoluene			
Ethane			
Ethylbenzene	6.36E-05	lb/1,000 gal	1.07E-04
Ethyl Chloride			
Ethylene dichloride			
Ethylene dibromide			
Fluoranthene	4.8E-06	lb/1,000 gal	8.18E-06
Fluorene	4.5E-06	lb/1,000 gal	7.55E-06
Formaldehyde	3.3E-02	lb/1,000 gal	5.58E-02
Hexane			
Hydrogen chloride			
Indeno(1,2,3,c,d)pyrene	2.1E-06	lb/1,000 gal	3.62E-06
Isophorone			
MMA			
2-Methylnaphthalene			
3-Methylchloranthrene			
MTBE			
Methylene chloride			
Naphthalene	1.13E-03	lb/1,000 gal	1.91E-03
5-Methyl chrysene			
Phenanthrene	1.1E-05	lb/1,000 gal	1.77E-05
Phenol			
Propane			
Propionaldehyde			
Pyrene	4.3E-06	lb/1,000 gal	7.18E-06
Styrene			
Sulfuric Acid (H ₂ SO ₄)			
Tetrachloroethylene			

Table C-13: Toxic Emission Calculations: Auxiliary Boiler

Basis:

Fuel Oil Consumption

1,690 gal/hr

Compound	Fuel Oil ¹		
	Emission Factor	Units	Hourly Emissions (lb/hr)
Toluene	6.20E-03	lb/1,000 gal	1.05E-02
1,1,1-Trichloroethane	2.36E-04	lb/1,000 gal	3.99E-04
Vinyl acetate			
Xylene	1.90E-04	lb/1,000 gal	3.21E-04
<i>Metals</i>			
Antimony			
Arsenic	5.6E-04	lb/1,000 gal	9.46E-04
Beryllium	4.2E-04	lb/1,000 gal	7.10E-04
Barium			
Cadmium	4.2E-04	lb/1,000 gal	7.10E-04
Chromium, total	4.2E-04	lb/1,000 gal	7.10E-04
Chromium, hexavalent			
Cobalt			
Copper	8.4E-04	lb/1,000 gal	1.42E-03
Lead	1.3E-03	lb/1,000 gal	2.13E-03
Mercury	4.2E-04	lb/1,000 gal	7.10E-04
Magnesium			
Manganese	8.4E-04	lb/1,000 gal	1.42E-03
Molybdenum			
Nickel	4.2E-04	lb/1,000 gal	7.10E-04
Selenium	2.1E-03	lb/1,000 gal	3.55E-03
Vanadium			
Zinc	5.6E-04	lb/1,000 gal	9.46E-04

Notes:

1) AP-42 Table 1.3-9 and 1.3-10



WASHINGTON COUNTY BOARD OF COMMISSIONERS

P.O. Box 271
Sandersville, Georgia 31082

Phone: 478-552-2325
Fax: 478-552-7424

Horace Daniel Chairman
Tuttle Barksdale District 1
Edward Burten, Jr. District 2
Melton Jones District 3
Frank Simmons, Jr. District 4
Lee Lord Administrator/Clerk

January 15, 2008

Dr. Carol Couch
EPD Director
Georgia Environmental Protection Division
2 Martin Luther King Drive
Atlanta, Georgia 30334

RE: Power4Georgians Request for Mayview Road Closure
Washington County, Georgia

Dear Dr. Couch:

The road closure of Mayview Road proposed by the Power4Georgians, LLC for the Washington County, Georgia site in attaining EPD permits is considered a necessary part of the permitting process as well as plant security considerations. The road should be considered as part of the Plant Washington site area and not public access area. Therefore, the Washington County Board of Commissioners is considering privatizing this road in the event EPD permits are issued.

Sincerely,

Horace M. Daniel
Chairman, Washington County
Board of Commissioners