

APPENDIX H

Excerpt of Hourly Emissions File
[CEMS] used in AERMOD Run

Main NAA Plan Modeling Run with Hourly Emissions for all three Ameren facilities: Rush Island, Meramec, and Labadie. Emission Years 2011-2013 matched with Meteorological Years 2008-2010 Onsite Herculaneum Met Data. See reference in plan to SO₂ Modeling TAD that addresses this method.

Excerpt of Hourly Emissions File (Att-Demo-All-Source-Hourly-08-10Met-11-13Emis.txt) First day of 2008.

SO HOUREMIS	8	1	1	1	LABADIE1	376.7820933	443.06	34.72
SO HOUREMIS	8	1	1	1	LABADIE2	303.6029067	442.49	35.558
SO HOUREMIS	8	1	1	1	LABADIE3	302.8091242	433.204	34.52
SO HOUREMIS	8	1	1	1	LABADIE4	298.0590289	441.707	34.95
SO HOUREMIS	8	1	1	1	MERMC1	73.25516801	419.705556	30.975808
SO HOUREMIS	8	1	1	1	MERMC2	71.93219026	434.483333	30.214316
SO HOUREMIS	8	1	1	1	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	1	MERMC4	167.3125862	446.20555	37.57676
SO HOUREMIS	8	1	1	1	RUSH1	285.4215075	428.72	33.02
SO HOUREMIS	8	1	1	1	RUSH2	421.5993053	436.11	32.97
SO HOUREMIS	8	1	1	2	LABADIE1	297.4416425	443.06	34.72
SO HOUREMIS	8	1	1	2	LABADIE2	308.4915989	442.49	35.558
SO HOUREMIS	8	1	1	2	LABADIE3	252.9898225	433.204	34.52
SO HOUREMIS	8	1	1	2	LABADIE4	300.3773778	441.707	34.95
SO HOUREMIS	8	1	1	2	MERMC1	69.04683879	419.705556	30.975808
SO HOUREMIS	8	1	1	2	MERMC2	66.85447566	434.483333	30.214316
SO HOUREMIS	8	1	1	2	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	2	MERMC4	165.6998133	446.20555	37.57676
SO HOUREMIS	8	1	1	2	RUSH1	287.2736667	428.72	33.02
SO HOUREMIS	8	1	1	2	RUSH2	394.5225022	436.11	32.97
SO HOUREMIS	8	1	1	3	LABADIE1	278.6050578	443.06	34.72
SO HOUREMIS	8	1	1	3	LABADIE2	313.2794933	442.49	35.558
SO HOUREMIS	8	1	1	3	LABADIE3	263.6869867	433.204	34.52
SO HOUREMIS	8	1	1	3	LABADIE4	308.5167983	441.707	34.95
SO HOUREMIS	8	1	1	3	MERMC1	64.4857155	419.705556	30.975808
SO HOUREMIS	8	1	1	3	MERMC2	60.69317928	434.483333	30.214316
SO HOUREMIS	8	1	1	3	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	3	MERMC4	165.5612156	446.20555	37.57676
SO HOUREMIS	8	1	1	3	RUSH1	281.452595	428.72	33.02
SO HOUREMIS	8	1	1	3	RUSH2	365.6691383	436.11	32.97
SO HOUREMIS	8	1	1	4	LABADIE1	312.3849131	443.06	34.72
SO HOUREMIS	8	1	1	4	LABADIE2	334.9384158	442.49	35.558
SO HOUREMIS	8	1	1	4	LABADIE3	289.9952067	433.204	34.52
SO HOUREMIS	8	1	1	4	LABADIE4	331.6498883	441.707	34.95
SO HOUREMIS	8	1	1	4	MERMC1	72.58737924	419.705556	30.975808

APPENDIX H - Excerpt of Hourly Emissions File [CEMS] used in AERMOD Run

SO HOUREMIS	8	1	1	4	MERMC2	68.27825171	434.483333	30.214316
SO HOUREMIS	8	1	1	4	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	4	MERMC4	165.7250129	446.20555	37.57676
SO HOUREMIS	8	1	1	4	RUSH1	282.6747681	428.72	33.02
SO HOUREMIS	8	1	1	4	RUSH2	401.9185392	436.11	32.97
SO HOUREMIS	8	1	1	5	LABADIE1	313.7456831	443.06	34.72
SO HOUREMIS	8	1	1	5	LABADIE2	345.6733792	442.49	35.558
SO HOUREMIS	8	1	1	5	LABADIE3	290.9905847	433.204	34.52
SO HOUREMIS	8	1	1	5	LABADIE4	330.440315	441.707	34.95
SO HOUREMIS	8	1	1	5	MERMC1	73.83475827	419.705556	30.975808
SO HOUREMIS	8	1	1	5	MERMC2	64.44791613	434.483333	30.214316
SO HOUREMIS	8	1	1	5	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	5	MERMC4	166.9471923	446.20555	37.57676
SO HOUREMIS	8	1	1	5	RUSH1	294.9090983	428.72	33.02
SO HOUREMIS	8	1	1	5	RUSH2	409.9697617	436.11	32.97
SO HOUREMIS	8	1	1	6	LABADIE1	401.8933397	443.06	34.72
SO HOUREMIS	8	1	1	6	LABADIE2	382.1243756	442.49	35.558
SO HOUREMIS	8	1	1	6	LABADIE3	339.3609183	433.204	34.52
SO HOUREMIS	8	1	1	6	LABADIE4	455.3665608	441.707	34.95
SO HOUREMIS	8	1	1	6	MERMC1	70.01702247	419.705556	30.975808
SO HOUREMIS	8	1	1	6	MERMC2	65.74569431	434.483333	30.214316
SO HOUREMIS	8	1	1	6	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	6	MERMC4	168.6985629	446.20555	37.57676
SO HOUREMIS	8	1	1	6	RUSH1	298.6386161	428.72	33.02
SO HOUREMIS	8	1	1	6	RUSH2	404.9928714	436.11	32.97
SO HOUREMIS	8	1	1	7	LABADIE1	450.0872772	443.06	34.72
SO HOUREMIS	8	1	1	7	LABADIE2	378.3318592	442.49	35.558
SO HOUREMIS	8	1	1	7	LABADIE3	410.9651397	433.204	34.52
SO HOUREMIS	8	1	1	7	LABADIE4	463.7201767	441.707	34.95
SO HOUREMIS	8	1	1	7	MERMC1	68.56804684	419.705556	30.975808
SO HOUREMIS	8	1	1	7	MERMC2	63.04933965	434.483333	30.214316
SO HOUREMIS	8	1	1	7	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	7	MERMC4	171.1555216	446.20555	37.57676
SO HOUREMIS	8	1	1	7	RUSH1	287.3870642	428.72	33.02
SO HOUREMIS	8	1	1	7	RUSH2	388.2856397	436.11	32.97
SO HOUREMIS	8	1	1	8	LABADIE1	505.1480633	443.06	34.72
SO HOUREMIS	8	1	1	8	LABADIE2	525.9754042	442.49	35.558
SO HOUREMIS	8	1	1	8	LABADIE3	486.2988789	433.204	34.52
SO HOUREMIS	8	1	1	8	LABADIE4	527.9661603	441.707	34.95
SO HOUREMIS	8	1	1	8	MERMC1	69.42483243	419.705556	30.975808
SO HOUREMIS	8	1	1	8	MERMC2	67.28286845	434.483333	30.214316
SO HOUREMIS	8	1	1	8	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	8	MERMC4	176.182837	446.20555	37.57676
SO HOUREMIS	8	1	1	8	RUSH1	312.8511028	428.72	33.02

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SO HOUREMIS	8	1	1	8	RUSH2	416.0302281	436.11	32.97
SO HOUREMIS	8	1	1	9	LABADIE1	507.6554081	443.06	34.72
SO HOUREMIS	8	1	1	9	LABADIE2	594.8706853	442.49	35.558
SO HOUREMIS	8	1	1	9	LABADIE3	501.0153544	433.204	34.52
SO HOUREMIS	8	1	1	9	LABADIE4	556.9707208	441.707	34.95
SO HOUREMIS	8	1	1	9	MERMC1	77.52649618	419.705556	30.975808
SO HOUREMIS	8	1	1	9	MERMC2	72.38578263	434.483333	30.214316
SO HOUREMIS	8	1	1	9	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	9	MERMC4	191.0253874	446.20555	37.57676
SO HOUREMIS	8	1	1	9	RUSH1	407.0340264	428.72	33.02
SO HOUREMIS	8	1	1	9	RUSH2	481.7377794	436.11	32.97
SO HOUREMIS	8	1	1	10	LABADIE1	555.6225506	443.06	34.72
SO HOUREMIS	8	1	1	10	LABADIE2	600.9941503	442.49	35.558
SO HOUREMIS	8	1	1	10	LABADIE3	537.7687442	433.204	34.52
SO HOUREMIS	8	1	1	10	LABADIE4	580.0282125	441.707	34.95
SO HOUREMIS	8	1	1	10	MERMC1	80.70164278	419.705556	30.975808
SO HOUREMIS	8	1	1	10	MERMC2	75.54832945	434.483333	30.214316
SO HOUREMIS	8	1	1	10	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	10	MERMC4	247.0062459	446.20555	37.57676
SO HOUREMIS	8	1	1	10	RUSH1	470.9650169	428.72	33.02
SO HOUREMIS	8	1	1	10	RUSH2	474.8205319	436.11	32.97
SO HOUREMIS	8	1	1	11	LABADIE1	553.2538028	443.06	34.72
SO HOUREMIS	8	1	1	11	LABADIE2	601.1831461	442.49	35.558
SO HOUREMIS	8	1	1	11	LABADIE3	527.07158	433.204	34.52
SO HOUREMIS	8	1	1	11	LABADIE4	570.9564125	441.707	34.95
SO HOUREMIS	8	1	1	11	MERMC1	83.78859087	419.705556	30.975808
SO HOUREMIS	8	1	1	11	MERMC2	67.48446506	434.483333	30.214316
SO HOUREMIS	8	1	1	11	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	11	MERMC4	304.2092839	446.20555	37.57676
SO HOUREMIS	8	1	1	11	RUSH1	500.7255608	428.72	33.02
SO HOUREMIS	8	1	1	11	RUSH2	500.6373628	436.11	32.97
SO HOUREMIS	8	1	1	12	LABADIE1	491.69156	443.06	34.72
SO HOUREMIS	8	1	1	12	LABADIE2	579.5998219	442.49	35.558
SO HOUREMIS	8	1	1	12	LABADIE3	498.3694128	433.204	34.52
SO HOUREMIS	8	1	1	12	LABADIE4	532.7288553	441.707	34.95
SO HOUREMIS	8	1	1	12	MERMC1	78.05568728	419.705556	30.975808
SO HOUREMIS	8	1	1	12	MERMC2	69.58862968	434.483333	30.214316
SO HOUREMIS	8	1	1	12	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	12	MERMC4	298.2369843	446.20555	37.57676
SO HOUREMIS	8	1	1	12	RUSH1	478.2602561	428.72	33.02
SO HOUREMIS	8	1	1	12	RUSH2	486.6264717	436.11	32.97
SO HOUREMIS	8	1	1	13	LABADIE1	485.8956878	443.06	34.72
SO HOUREMIS	8	1	1	13	LABADIE2	574.4087364	442.49	35.558
SO HOUREMIS	8	1	1	13	LABADIE3	498.5458089	433.204	34.52

APPENDIX H - Excerpt of Hourly Emissions File [CEMS] used in AERMOD Run

SO HOUREMIS	8	1	1	13	LABADIE4	529.8939178	441.707	34.95
SO HOUREMIS	8	1	1	13	MERMC1	80.22285083	419.705556	30.975808
SO HOUREMIS	8	1	1	13	MERMC2	72.28498433	434.483333	30.214316
SO HOUREMIS	8	1	1	13	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	13	MERMC4	233.6378707	446.20555	37.57676
SO HOUREMIS	8	1	1	13	RUSH1	476.9372853	428.72	33.02
SO HOUREMIS	8	1	1	13	RUSH2	481.9267753	436.11	32.97
SO HOUREMIS	8	1	1	14	LABADIE1	482.8087558	443.06	34.72
SO HOUREMIS	8	1	1	14	LABADIE2	561.0152317	442.49	35.558
SO HOUREMIS	8	1	1	14	LABADIE3	461.9058167	433.204	34.52
SO HOUREMIS	8	1	1	14	LABADIE4	521.7670969	441.707	34.95
SO HOUREMIS	8	1	1	14	MERMC1	69.90362438	419.705556	30.975808
SO HOUREMIS	8	1	1	14	MERMC2	67.27026867	434.483333	30.214316
SO HOUREMIS	8	1	1	14	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	14	MERMC4	190.6473937	446.20555	37.57676
SO HOUREMIS	8	1	1	14	RUSH1	464.1359675	428.72	33.02
SO HOUREMIS	8	1	1	14	RUSH2	471.6454019	436.11	32.97
SO HOUREMIS	8	1	1	15	LABADIE1	486.1728817	443.06	34.72
SO HOUREMIS	8	1	1	15	LABADIE2	561.9602108	442.49	35.558
SO HOUREMIS	8	1	1	15	LABADIE3	470.1208356	433.204	34.52
SO HOUREMIS	8	1	1	15	LABADIE4	523.4176606	441.707	34.95
SO HOUREMIS	8	1	1	15	MERMC1	70.28161802	419.705556	30.975808
SO HOUREMIS	8	1	1	15	MERMC2	66.02288964	434.483333	30.214316
SO HOUREMIS	8	1	1	15	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	15	MERMC4	163.5452495	446.20555	37.57676
SO HOUREMIS	8	1	1	15	RUSH1	478.7264458	428.72	33.02
SO HOUREMIS	8	1	1	15	RUSH2	479.2934333	436.11	32.97
SO HOUREMIS	8	1	1	16	LABADIE1	549.2092919	443.06	34.72
SO HOUREMIS	8	1	1	16	LABADIE2	601.8887306	442.49	35.558
SO HOUREMIS	8	1	1	16	LABADIE3	519.5621456	433.204	34.52
SO HOUREMIS	8	1	1	16	LABADIE4	559.1756722	441.707	34.95
SO HOUREMIS	8	1	1	16	MERMC1	92.73444042	419.705556	30.975808
SO HOUREMIS	8	1	1	16	MERMC2	79.39126482	434.483333	30.214316
SO HOUREMIS	8	1	1	16	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	16	MERMC4	180.0005728	446.20555	37.57676
SO HOUREMIS	8	1	1	16	RUSH1	469.6546458	428.72	33.02
SO HOUREMIS	8	1	1	16	RUSH2	473.4093631	436.11	32.97
SO HOUREMIS	8	1	1	17	LABADIE1	557.9534992	443.06	34.72
SO HOUREMIS	8	1	1	17	LABADIE2	595.7148667	442.49	35.558
SO HOUREMIS	8	1	1	17	LABADIE3	514.9758467	433.204	34.52
SO HOUREMIS	8	1	1	17	LABADIE4	557.9786986	441.707	34.95
SO HOUREMIS	8	1	1	17	MERMC1	111.3443274	419.705556	30.975808
SO HOUREMIS	8	1	1	17	MERMC2	90.41607941	434.483333	30.214316
SO HOUREMIS	8	1	1	17	MERMC3	0.0000001	462.09444	41.270428

APPENDIX H - Excerpt of Hourly Emissions File [CEMS] used in AERMOD Run

SO HOUREMIS	8	1	1	17	MERMC4	239.9629644	446.20555	37.57676
SO HOUREMIS	8	1	1	17	RUSH1	503.8628917	428.72	33.02
SO HOUREMIS	8	1	1	17	RUSH2	500.76336	436.11	32.97
SO HOUREMIS	8	1	1	18	LABADIE1	555.1437611	443.06	34.72
SO HOUREMIS	8	1	1	18	LABADIE2	595.6644678	442.49	35.558
SO HOUREMIS	8	1	1	18	LABADIE3	515.5302344	433.204	34.52
SO HOUREMIS	8	1	1	18	LABADIE4	548.4155094	441.707	34.95
SO HOUREMIS	8	1	1	18	MERMC1	128.8076337	419.705556	30.975808
SO HOUREMIS	8	1	1	18	MERMC2	93.93142029	434.483333	30.214316
SO HOUREMIS	8	1	1	18	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	18	MERMC4	297.1156032	446.20555	37.57676
SO HOUREMIS	8	1	1	18	RUSH1	514.2324631	428.72	33.02
SO HOUREMIS	8	1	1	18	RUSH2	512.8968925	436.11	32.97
SO HOUREMIS	8	1	1	19	LABADIE1	508.8775811	443.06	34.72
SO HOUREMIS	8	1	1	19	LABADIE2	588.3944281	442.49	35.558
SO HOUREMIS	8	1	1	19	LABADIE3	512.4685019	433.204	34.52
SO HOUREMIS	8	1	1	19	LABADIE4	555.2193594	441.707	34.95
SO HOUREMIS	8	1	1	19	MERMC1	112.8437022	419.705556	30.975808
SO HOUREMIS	8	1	1	19	MERMC2	94.15821647	434.483333	30.214316
SO HOUREMIS	8	1	1	19	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	19	MERMC4	313.9111207	446.20555	37.57676
SO HOUREMIS	8	1	1	19	RUSH1	517.0674006	428.72	33.02
SO HOUREMIS	8	1	1	19	RUSH2	524.2870414	436.11	32.97
SO HOUREMIS	8	1	1	20	LABADIE1	553.5561961	443.06	34.72
SO HOUREMIS	8	1	1	20	LABADIE2	587.7392425	442.49	35.558
SO HOUREMIS	8	1	1	20	LABADIE3	520.7591192	433.204	34.52
SO HOUREMIS	8	1	1	20	LABADIE4	567.2016953	441.707	34.95
SO HOUREMIS	8	1	1	20	MERMC1	86.45974594	419.705556	30.975808
SO HOUREMIS	8	1	1	20	MERMC2	79.88265655	434.483333	30.214316
SO HOUREMIS	8	1	1	20	MERMC3	0.0000001	462.09444	41.270428
SO HOUREMIS	8	1	1	20	MERMC4	312.0589519	446.20555	37.57676
SO HOUREMIS	8	1	1	20	RUSH1	523.7704528	428.72	33.02
SO HOUREMIS	8	1	1	20	RUSH2	495.4840764	436.11	32.97
SO HOUREMIS	8	1	1	21	LABADIE1	501.2295497	443.06	34.72
SO HOUREMIS	8	1	1	21	LABADIE2	567.3150928	442.49	35.558
SO HOUREMIS	8	1	1	21	LABADIE3	533.0564481	433.204	34.52
SO HOUREMIS	8	1	1	21	LABADIE4	578.9824356	441.707	34.95
SO HOUREMIS	8	1	1	21	MERMC1	101.6298908	419.705556	30.975808
SO HOUREMIS	8	1	1	21	MERMC2	69.86582501	434.483333	30.214316
SO HOUREMIS	8	1	1	21	MERMC3	0	462.09444	41.270428
SO HOUREMIS	8	1	1	21	MERMC4	309.4633955	446.20555	37.57676
SO HOUREMIS	8	1	1	21	RUSH1	522.3214847	428.72	33.02
SO HOUREMIS	8	1	1	21	RUSH2	485.7066919	436.11	32.97
SO HOUREMIS	8	1	1	22	LABADIE1	484.3333222	443.06	34.72

APPENDIX H - Excerpt of Hourly Emissions File [CEMS] used in AERMOD Run

SO HOUREMIS	8	1	1	22	LABADIE2	567.0630983	442.49	35.558
SO HOUREMIS	8	1	1	22	LABADIE3	542.9850292	433.204	34.52
SO HOUREMIS	8	1	1	22	LABADIE4	593.1949222	441.707	34.95
SO HOUREMIS	8	1	1	22	MERMC1	101.0503006	419.705556	30.975808
SO HOUREMIS	8	1	1	22	MERMC2	66.55208074	434.483333	30.214316
SO HOUREMIS	8	1	1	22	MERMC3	0 462.09444	41.270428	
SO HOUREMIS	8	1	1	22	MERMC4	297.2668006	446.20555	37.57676
SO HOUREMIS	8	1	1	22	RUSH1	515.8578272	428.72	33.02
SO HOUREMIS	8	1	1	22	RUSH2	490.1417942	436.11	32.97
SO HOUREMIS	8	1	1	23	LABADIE1	488.7558247	443.06	34.72
SO HOUREMIS	8	1	1	23	LABADIE2	569.2302506	442.49	35.558
SO HOUREMIS	8	1	1	23	LABADIE3	545.8703656	433.204	34.52
SO HOUREMIS	8	1	1	23	LABADIE4	604.3330767	441.707	34.95
SO HOUREMIS	8	1	1	23	MERMC1	70.01702247	419.705556	30.975808
SO HOUREMIS	8	1	1	23	MERMC2	71.23920192	434.483333	30.214316
SO HOUREMIS	8	1	1	23	MERMC3	0 462.09444	41.270428	
SO HOUREMIS	8	1	1	23	MERMC4	253.1549425	446.20555	37.57676
SO HOUREMIS	8	1	1	23	RUSH1	513.46388	428.72	33.02
SO HOUREMIS	8	1	1	23	RUSH2	491.5403633	436.11	32.97
SO HOUREMIS	8	1	1	24	LABADIE1	363.0735956	443.06	34.72
SO HOUREMIS	8	1	1	24	LABADIE2	583.7451306	442.49	35.558
SO HOUREMIS	8	1	1	24	LABADIE3	545.0009847	433.204	34.52
SO HOUREMIS	8	1	1	24	LABADIE4	606.9538189	441.707	34.95
SO HOUREMIS	8	1	1	24	MERMC1	74.62854492	419.705556	30.975808
SO HOUREMIS	8	1	1	24	MERMC2	71.32740043	434.483333	30.214316
SO HOUREMIS	8	1	1	24	MERMC3	0 462.09444	41.270428	
SO HOUREMIS	8	1	1	24	MERMC4	188.6440274	446.20555	37.57676
SO HOUREMIS	8	1	1	24	RUSH1	479.1548364	428.72	33.02
SO HOUREMIS	8	1	1	24	RUSH2	508.7641836	436.11	32.97