

APPENDIX D

Main Nonattainment Area Plan Scenario Modeling Files

List of files included in this appendix:

Main Nonattainment Plan Scenario

NAA Sources at Potential Emissions with Interactive Sources at actuals and Ameren plants at CEMS Scenario:

- 100m-G1-AERMOD-All-Sources-NAA-PTE-Am-CEMS-Int-Act-AttDemo.inp
- PTE-Act-CEMS-NAAgrid-08-10-MET-11-13-CEMS-G1.PLT

NAA-Potential Emissions with Interactive Sources at Actuals and Ameren Plants at CEMS Scenario to Demonstrate Attainment

This scenario includes all SO₂ emitting sources contained within the NAA boundary at potential emissions, interactive (outside NAA) at recent actual emissions, and the three Ameren facilities at most recent variable emissions, 2011-2013 CEMS. Meteorological data, as included in Appendix J, is 2008-2010 Herculaneum onsite data.

The receptor grid for this scenario consists of receptors placed at 100 meter intervals along the perimeter/border and throughout the entire nonattainment area. This results in a large number of receptors, greater than 40,000, therefore, four sub-sectors were utilized to manage runtime. Only an excerpt of the first sub-sector files is included here, the input files would be identical except for the receptors. The full input and output files are available in digital format upon request.

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**
*****
** AERMOD Control Pathway
*****
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**
```

CO STARTING

TITLEONE SO2 Jefferson NAA All sources in Jeff NAA at PTE and outside NAA interactive sources at actual emissions. (EM Gen means emergency generator) Hourly Actuals (CEMS) for 3 Ameren plants (Using 11-13 CEMS for most recent) with 08-10 Herc ONSite Met data (Last full 3 yr period available).

**Excluding Herc Emissions as they have shutdown as of 1/1/2014 Revised 2-20-15 AK

**NAA Grid-100m Spacing Grid 1 of 4

**Project # 2010-SO2-3B 1 hour Jefferson NAA

MODELOPT DFAULT CONC

AVERTIME 1

POLLUTID SO2

RUNORNOT RUN

ERRORFIL JeffersonCountyNAA.err

CO FINISHED

```
**
*****
** AERMOD Source Pathway
*****
**
**
```

SO STARTING

Appendix D – Main Nonattainment Plan Scenario Modeling Files

**Ameren Labadie

**Boiler #1

**

SO LOCATION LABADIE1 Point 688352.17 4270445.59 149.66
SO SRCPARAM LABADIE1 681.056344 213.36 443.0648912 34.72064305 6.2484
SO HOUREMIS .\Att-Demo-All-Source-Hourly-08-10Met-11-13Emis.txt LABADIE1

**Boiler #2

**

SO LOCATION LABADIE2 Point 688387.01 4270400.40 149.66
SO SRCPARAM LABADIE2 537.229763 213.36 442.4920016 35.55833613 6.2484
SO HOUREMIS .\Att-Demo-All-Source-Hourly-08-10Met-11-13Emis.txt LABADIE2

**Boiler #3

**

SO LOCATION LABADIE3 Point 688435.47 4270332.33 149.66
SO SRCPARAM LABADIE3 605.810409 213.36 433.2043723 34.51691769 6.2484
SO HOUREMIS .\Att-Demo-All-Source-Hourly-08-10Met-11-13Emis.txt LABADIE3

**Boiler #4

**

SO LOCATION LABADIE4 Point 688439.28 4270327.43 149.66
SO SRCPARAM LABADIE4 637.788672 213.36 441.7078451 34.94594478 6.2484
SO HOUREMIS .\Att-Demo-All-Source-Hourly-08-10Met-11-13Emis.txt LABADIE4

**Emergency Diesel Generator

**operates 8736 hr per year so it was included. Emission are released through a stack

SO LOCATION LABADIE5 Point 688439.28 4270327.43 149.66
SO SRCPARAM LABADIE5 0.002307653 9.144 866.4833333 7.112 0.3048

**BPIP Outputs Dated January 11, 2012

SO BUILDHGT LABADIE1	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	25.37	27.71	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE1	78.44	25.37	27.71	78.44	78.44	78.44
SO BUILDWID LABADIE1	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID LABADIE1	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID LABADIE1	84.32	43.39	61.83	112.08	144.48	172.49
SO BUILDWID LABADIE1	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID LABADIE1	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID LABADIE1	84.32	43.39	61.83	112.08	144.48	172.49
SO BUILDLEN LABADIE1	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN LABADIE1	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN LABADIE1	226.12	220.00	229.51	220.81	212.22	197.19
SO BUILDLEN LABADIE1	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN LABADIE1	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN LABADIE1	226.12	220.00	229.51	220.81	212.22	197.19

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SO XBADJ	LABADIE1	-88.14	-56.63	-23.40	10.55	44.17	41.54
SO XBADJ	LABADIE1	34.41	26.23	17.26	7.76	-1.97	-11.65
SO XBADJ	LABADIE1	-20.97	-30.23	-28.68	-57.59	-69.96	-80.21
SO XBADJ	LABADIE1	-88.02	-93.15	-95.46	-94.86	-91.38	-117.82
SO XBADJ	LABADIE1	-146.49	-170.71	-189.75	-203.02	-210.12	-210.84
SO XBADJ	LABADIE1	-205.15	-189.77	-200.83	-163.22	-142.26	-116.98
SO YBADJ	LABADIE1	-105.39	-104.07	-99.60	-92.09	-81.79	-67.87
SO YBADJ	LABADIE1	-52.81	-36.15	-18.38	-0.06	18.26	36.03
SO YBADJ	LABADIE1	52.71	25.71	-16.96	90.45	98.47	103.50
SO YBADJ	LABADIE1	105.39	104.07	99.60	92.09	81.79	67.87
SO YBADJ	LABADIE1	52.81	36.15	18.38	0.06	-18.26	-36.03
SO YBADJ	LABADIE1	-52.71	-25.71	16.96	-90.45	-98.47	-103.51

SO BUILDHGT	LABADIE2	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	25.37	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE2	78.44	25.37	78.44	78.44	78.44	78.44
SO BUILDWID	LABADIE2	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID	LABADIE2	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID	LABADIE2	84.32	43.39	76.28	112.08	144.48	172.49
SO BUILDWID	LABADIE2	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID	LABADIE2	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID	LABADIE2	84.32	43.39	76.28	112.08	144.48	172.49
SO BUILDLEN	LABADIE2	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN	LABADIE2	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN	LABADIE2	226.12	220.00	222.69	220.81	212.22	197.19
SO BUILDLEN	LABADIE2	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLEN	LABADIE2	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLEN	LABADIE2	226.12	220.00	222.69	220.81	212.22	197.19
SO XBADJ	LABADIE2	-49.69	-26.08	-1.68	22.77	46.53	33.97
SO XBADJ	LABADIE2	17.13	-0.23	-17.58	-34.40	-50.17	-64.41
SO XBADJ	LABADIE2	-76.70	-87.24	-100.02	-111.97	-120.52	-125.40
SO XBADJ	LABADIE2	-126.47	-123.70	-117.17	-107.09	-93.74	-110.24
SO XBADJ	LABADIE2	-129.21	-144.25	-154.91	-160.86	-161.93	-158.07
SO XBADJ	LABADIE2	-149.41	-132.76	-122.66	-108.84	-91.71	-71.79
SO YBADJ	LABADIE2	-63.23	-55.88	-46.83	-36.35	-24.78	-11.32
SO YBADJ	LABADIE2	1.57	14.40	26.81	38.39	48.81	57.75
SO YBADJ	LABADIE2	64.93	28.07	72.10	73.17	72.01	68.66
SO YBADJ	LABADIE2	63.23	55.88	46.83	36.35	24.78	11.32
SO YBADJ	LABADIE2	-1.57	-14.40	-26.81	-38.39	-48.81	-57.75
SO YBADJ	LABADIE2	-64.93	-28.07	-72.10	-73.17	-72.01	-68.66

SO BUILDHGT	LABADIE3	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE3	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE3	27.71	27.71	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE3	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT	LABADIE3	78.44	78.44	78.44	78.44	78.44	78.44

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SO BUILDHGT LABADIE3	27.71	27.71	78.44	78.44	78.44	78.44
SO BUILDWID LABADIE3	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID LABADIE3	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID LABADIE3	69.54	30.46	76.28	112.08	144.48	172.49
SO BUILDWID LABADIE3	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID LABADIE3	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID LABADIE3	69.54	30.46	76.28	112.08	144.48	172.49
SO BUILDLN LABADIE3	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLN LABADIE3	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLN LABADIE3	230.71	230.36	222.69	220.81	212.22	197.19
SO BUILDLN LABADIE3	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLN LABADIE3	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLN LABADIE3	230.71	230.36	222.69	220.81	212.22	197.19
SO XBADJ LABADIE3	8.93	21.31	33.04	43.77	53.16	26.03
SO XBADJ LABADIE3	-5.13	-36.13	-66.04	-93.94	-118.99	-140.42
SO XBADJ LABADIE3	-177.41	-174.21	-183.20	-192.51	-195.97	-193.47
SO XBADJ LABADIE3	-185.09	-171.09	-151.89	-128.08	-100.38	-102.31
SO XBADJ LABADIE3	-106.95	-108.35	-106.45	-101.32	-93.11	-82.07
SO XBADJ LABADIE3	-53.30	-56.15	-39.48	-28.30	-16.26	-3.72
SO YBADJ LABADIE3	-3.69	12.94	29.17	44.52	58.52	71.86
SO YBADJ LABADIE3	82.11	89.86	94.88	97.01	96.20	92.47
SO YBADJ LABADIE3	-13.38	-23.94	64.17	50.91	36.11	20.20
SO YBADJ LABADIE3	3.69	-12.94	-29.17	-44.52	-58.52	-71.86
SO YBADJ LABADIE3	-82.11	-89.86	-94.88	-97.01	-96.20	-92.47
SO YBADJ LABADIE3	13.38	23.94	-64.17	-50.91	-36.11	-20.20

SO BUILDHGT LABADIE4	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE4	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE4	27.71	27.71	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE4	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE4	78.44	78.44	78.44	78.44	78.44	78.44
SO BUILDHGT LABADIE4	27.71	27.71	78.44	78.44	78.44	78.44
SO BUILDWID LABADIE4	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID LABADIE4	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID LABADIE4	69.54	30.46	76.28	112.08	144.48	172.49
SO BUILDWID LABADIE4	195.26	212.09	222.49	226.12	222.88	222.69
SO BUILDWID LABADIE4	220.81	212.22	197.19	176.16	149.79	118.86
SO BUILDWID LABADIE4	69.54	30.46	76.28	112.08	144.48	172.49
SO BUILDLN LABADIE4	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLN LABADIE4	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLN LABADIE4	230.71	230.36	222.69	220.81	212.22	197.19
SO BUILDLN LABADIE4	176.16	149.79	118.86	84.32	47.21	76.28
SO BUILDLN LABADIE4	112.08	144.48	172.49	195.26	212.09	222.49
SO BUILDLN LABADIE4	230.71	230.36	222.69	220.81	212.22	197.19
SO XBADJ LABADIE4	13.09	24.61	35.38	45.07	53.39	25.18
SO XBADJ LABADIE4	-7.03	-39.03	-69.85	-98.54	-124.24	-146.17
SO XBADJ LABADIE4	-183.47	-180.41	-189.35	-198.42	-201.45	-198.37
SO XBADJ LABADIE4	-189.26	-174.40	-154.23	-129.39	-100.61	-101.46
SO XBADJ LABADIE4	-105.05	-105.45	-102.64	-96.72	-87.85	-76.32
SO XBADJ LABADIE4	-47.23	-49.95	-33.33	-22.39	-10.77	1.18

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SO YBADJ	LABADIE4	0.91	18.20	34.92	50.59	64.72	78.01
SO YBADJ	LABADIE4	88.01	95.34	99.78	101.18	99.50	94.81
SO YBADJ	LABADIE4	-12.08	-23.71	63.32	49.01	33.21	16.39
SO YBADJ	LABADIE4	-0.91	-18.20	-34.92	-50.59	-64.72	-78.01
SO YBADJ	LABADIE4	-88.01	-95.34	-99.78	-101.18	-99.50	-94.81
SO YBADJ	LABADIE4	12.08	23.71	-63.32	-49.01	-33.21	-16.39

**Ameren Meramec

**Boiler #1

**

SO LOCATION MERMC1 Point 732714.14 4253776.27 127.47
SO SRCPARAM MERMC1 89.9624867 76.2 419.7055556 30.975808 3.3528
SO HOUREMIS .\Att-Demo-All-Source-Hourly-08-10Met-11-13Emiss.txt MERMC1

**Boiler #2

**

SO LOCATION MERMC2 POINT 732675.11 4253783.41 127.71
SO SRCPARAM MERMC2 188.870823 76.2 434.4833333 30.214316 3.3528
SO HOUREMIS .\Att-Demo-All-Source-Hourly-08-10Met-11-13Emiss.txt MERMC2

**Boiler #3

**

SO LOCATION MERMC3 POINT 732626.15 4253790.07 127.96
SO SRCPARAM MERMC3 160.244104 106.68 462.0944444 41.270428 4.2672
SO HOUREMIS .\Att-Demo-All-Source-Hourly-08-10Met-11-13Emiss.txt MERMC3

**Boiler #4

**

SO LOCATION MERMC4 POINT 732582.63 4253799.56 128.13
SO SRCPARAM MERMC4 232.377891 106.68 446.2055556 37.57676 4.8768
SO HOUREMIS .\Att-Demo-All-Source-Hourly-08-10Met-11-13Emiss.txt MERMC4

**EMERGENCY DIESEL GEN.

**

SO LOCATION EU5 Point 732735.459 4253533.206 128.13
SO SRCPARAM EU5 0.969214466 12.192 612.0388889 11.61288 0.3048

**Internal Combustion Engines

**

SO LOCATION MERMC6 Point 732735.459 4253533.206 128.13
SO SRCPARAM MERMC6 0.336834334 9.7536 838.7055556 31.63824 3.6576

**Internal Combustion Engines

**

SO LOCATION MERMC62 Point 732735.459 4253533.206 128.13
SO SRCPARAM MERMC62 7.614 8.99 838.71 20.97 4.75

**Meramec BPIP

**BPIP Output Dated January 30, 2014

SO BUILDHGT MERMC1 41.88 41.88 41.88 41.88 41.88 41.88

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SO BUILDHGT MERMC1 41.88 41.88 29.95 27.81 41.88 52.12
SO BUILDHGT MERMC1 52.12 41.88 41.88 41.88 41.88 41.88
SO BUILDHGT MERMC1 41.88 41.88 41.88 41.88 41.88 41.88
SO BUILDHGT MERMC1 41.88 41.88 27.81 27.81 41.88 41.88
SO BUILDHGT MERMC1 41.88 41.88 41.88 41.88 41.88 41.88
SO BUILDWID MERMC1 170.39 174.11 174.3 169.2 158.95 143.88
SO BUILDWID MERMC1 124.43 101.2 30.45 25.56 59.41 36.57
SO BUILDWID MERMC1 38.43 116.92 136.73 152.39 163.42 169.48
SO BUILDWID MERMC1 170.39 174.11 174.3 169.2 158.95 143.88
SO BUILDWID MERMC1 124.43 101.2 28.98 25.56 59.41 80.18
SO BUILDWID MERMC1 98.51 116.92 136.73 152.39 163.42 169.48
SO BUILDLEN MERMC1 46.32 59.41 80.18 98.51 116.92 136.73
SO BUILDLEN MERMC1 152.39 163.42 55.77 83.4 174.11 44.22
SO BUILDLEN MERMC1 45.77 158.95 143.88 124.43 101.2 74.9
SO BUILDLEN MERMC1 46.32 59.41 80.18 98.51 116.92 136.73
SO BUILDLEN MERMC1 152.39 163.42 49.12 83.4 174.11 174.3
SO BUILDLEN MERMC1 169.2 158.95 143.88 124.43 101.2 74.9
SO XBADJ MERMC1 24.13 6.64 -15.2 -36.57 -59.89 -86.36
SO XBADJ MERMC1 -110.2 -130.69 -169.5 -108.22 -168.61 -168.62
SO XBADJ MERMC1 -165.65 -166.92 -156.03 -140.4 -120.51 -96.95
SO XBADJ MERMC1 -70.45 -66.05 -64.98 -61.95 -57.03 -50.38
SO XBADJ MERMC1 -42.19 -32.73 0.47 24.83 -5.5 -1
SO XBADJ MERMC1 3.54 7.97 12.16 15.97 19.3 22.05
SO YBADJ MERMC1 74.06 81.55 86.15 88.14 87.44 84.09
SO YBADJ MERMC1 78.19 69.91 1.68 -20.62 36.34 -8.78
SO YBADJ MERMC1 -34.08 -1.43 -17.99 -34 -48.98 -62.47
SO YBADJ MERMC1 -74.06 -81.55 -86.15 -88.14 -87.44 -84.09
SO YBADJ MERMC1 -78.19 -69.91 14.43 20.62 -36.34 -24.89
SO YBADJ MERMC1 -12.69 1.43 17.99 34 48.98 62.47

SO BUILDHGT MERMC2 41.88 41.88 41.88 41.88 41.88 41.88
SO BUILDHGT MERMC2 41.88 41.88 41.88 27.81 41.88 52.12
SO BUILDHGT MERMC2 52.12 52.12 41.88 41.88 41.88 41.88
SO BUILDHGT MERMC2 41.88 41.88 41.88 41.88 41.88 41.88
SO BUILDHGT MERMC2 41.88 41.88 41.88 27.81 41.88 41.88
SO BUILDHGT MERMC2 41.88 52.12 41.88 41.88 41.88 41.88
SO BUILDWID MERMC2 170.39 174.11 174.3 169.2 158.95 143.88
SO BUILDWID MERMC2 124.43 101.2 74.9 25.56 59.41 36.57
SO BUILDWID MERMC2 40.87 42 136.73 152.39 163.42 169.48
SO BUILDWID MERMC2 170.39 174.11 174.3 169.2 158.95 143.88
SO BUILDWID MERMC2 124.43 101.2 74.9 25.56 59.41 80.18
SO BUILDWID MERMC2 98.51 42 136.73 152.39 163.42 169.48
SO BUILDLEN MERMC2 46.32 59.41 80.18 98.51 116.92 136.73
SO BUILDLEN MERMC2 152.39 163.42 169.48 83.4 174.11 44.22
SO BUILDLEN MERMC2 45.77 45.94 143.88 124.43 101.2 74.9
SO BUILDLEN MERMC2 46.32 59.41 80.18 98.51 116.92 136.73
SO BUILDLEN MERMC2 152.39 163.42 169.48 83.4 174.11 174.3
SO BUILDLEN MERMC2 169.2 45.94 143.88 124.43 101.2 74.9
SO XBADJ MERMC2 23.87 13.28 -1.86 -16.95 -34.58 -56.13
SO XBADJ MERMC2 -75.96 -93.49 -108.18 -68.55 -129.49 -131.25

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SO XBADJ MERMC2 -131.16 -127.08 -130.33 -120.34 -106.7 -89.81
SO XBADJ MERMC2 -70.19 -72.69 -78.32 -81.57 -82.34 -80.61
SO XBADJ MERMC2 -76.43 -69.93 -61.3 -14.85 -44.62 -38.37
SO XBADJ MERMC2 -30.95 81.14 -13.54 -4.09 5.5 14.91
SO YBADJ MERMC2 34.38 42.43 48.78 53.65 56.89 58.4
SO YBADJ MERMC2 58.13 56.1 52.36 -20.88 42.98 4.55
SO YBADJ MERMC2 -14.47 -33.05 12.24 0.23 -11.78 -23.44
SO YBADJ MERMC2 -34.38 -42.43 -48.78 -53.65 -56.89 -58.4
SO YBADJ MERMC2 -58.13 -56.1 -52.36 20.88 -42.98 -38.23
SO YBADJ MERMC2 -32.31 33.05 -12.24 -0.23 11.78 23.44

SO BUILDHGT MERMC3 41.88 41.88 41.88 41.88 41.88 41.88
SO BUILDHGT MERMC3 41.88 41.88 41.88 27.81 41.88 52.12
SO BUILDHGT MERMC3 52.12 52.12 52.12 52.12 52.12 41.88
SO BUILDHGT MERMC3 41.88 41.88 41.88 41.88 41.88 41.88
SO BUILDHGT MERMC3 41.88 41.88 41.88 27.81 41.88 52.12
SO BUILDHGT MERMC3 52.12 52.12 52.12 52.12 52.12 41.88
SO BUILDWID MERMC3 170.39 174.11 174.3 169.2 158.95 143.88
SO BUILDWID MERMC3 124.43 101.2 74.9 25.56 64.83 36.57
SO BUILDWID MERMC3 40.87 43.93 45.65 45.99 44.93 169.48
SO BUILDWID MERMC3 170.39 174.11 174.3 169.2 158.95 143.88
SO BUILDWID MERMC3 124.43 101.2 74.9 25.56 64.83 36.57
SO BUILDWID MERMC3 40.87 43.93 45.65 45.99 44.93 169.48
SO BUILDLEN MERMC3 46.32 59.41 80.18 98.51 116.92 136.73
SO BUILDLEN MERMC3 152.39 163.42 169.48 83.4 174.11 44.22
SO BUILDLEN MERMC3 45.77 45.94 44.71 42.12 38.25 74.9
SO BUILDLEN MERMC3 46.32 59.41 80.18 98.51 116.92 136.73
SO BUILDLEN MERMC3 152.39 163.42 169.48 83.4 174.11 44.22
SO BUILDLEN MERMC3 45.77 45.94 44.71 42.12 38.25 74.9
SO XBADJ MERMC3 25.81 23.76 16.85 9.42 -1.36 -17.06
SO XBADJ MERMC3 -32.23 -46.43 -59.22 -19.18 -81.2 -85.52
SO XBADJ MERMC3 -89.37 -90.51 -88.9 -84.59 -77.7 -83.15
SO XBADJ MERMC3 -72.14 -83.17 -97.03 -107.94 -115.56 -119.68
SO XBADJ MERMC3 -120.16 -116.99 -110.26 -64.22 -92.9 41.3
SO XBADJ MERMC3 43.6 44.57 44.19 42.47 39.45 8.25
SO YBADJ MERMC3 -14.99 -5.85 3.05 11.86 20.31 28.15
SO YBADJ MERMC3 35.13 41.04 45.7 -18.94 50.76 23.27
SO YBADJ MERMC3 11.9 0.18 -11.55 -22.93 -33.61 25.52
SO YBADJ MERMC3 14.99 5.85 -3.05 -11.86 -20.31 -28.15
SO YBADJ MERMC3 -35.13 -41.04 -45.7 18.94 -50.76 -23.27
SO YBADJ MERMC3 -11.9 -0.18 11.55 22.93 33.61 -25.52

SO BUILDHGT MERMC4 52.12 52.12 52.12 52.12 52.12 52.12
SO BUILDHGT MERMC4 52.12 41.88 41.88 27.81 28.73 41.88
SO BUILDHGT MERMC4 52.12 52.12 52.12 52.12 52.12 52.12
SO BUILDHGT MERMC4 52.12 52.12 52.12 52.12 52.12 52.12
SO BUILDHGT MERMC4 52.12 41.88 41.88 27.81 28.73 41.88
SO BUILDHGT MERMC4 52.12 52.12 52.12 52.12 52.12 52.12
SO BUILDWID MERMC4 38.79 41.32 44.22 45.77 45.94 44.71

Appendix D – Main Nonattainment Plan Scenario Modeling Files

SO BUILDWID MERMC4	42.12	101.2	74.9	25.56	32.53	92.05
SO BUILDWID MERMC4	40.87	43.93	45.65	45.99	44.93	42.51
SO BUILDWID MERMC4	38.79	41.32	44.22	45.77	45.94	44.71
SO BUILDWID MERMC4	42.12	101.2	74.9	25.56	32.53	92.05
SO BUILDWID MERMC4	40.87	43.93	45.65	45.99	44.93	42.51
SO BUILDLEN MERMC4	27.18	31.15	36.57	40.87	43.93	45.65
SO BUILDLEN MERMC4	45.99	163.42	169.48	83.4	77.19	174.3
SO BUILDLEN MERMC4	45.77	45.94	44.71	42.12	38.25	33.22
SO BUILDLEN MERMC4	27.18	31.15	36.57	40.87	43.93	45.65
SO BUILDLEN MERMC4	45.99	163.42	169.48	83.4	77.19	174.3
SO BUILDLEN MERMC4	45.77	45.94	44.71	42.12	38.25	33.22
SO XBADJ MERMC4	28.17	24.31	18.52	12.17	5.45	-1.44
SO XBADJ MERMC4	-8.28	-5.22	-15.7	25.33	-1.15	-47.77
SO XBADJ MERMC4	-49.93	-55.27	-58.92	-60.78	-60.8	-58.97
SO XBADJ MERMC4	-55.35	-55.47	-55.09	-53.04	-49.38	-44.22
SO XBADJ MERMC4	-37.71	-158.2	-153.78	-108.73	-76.05	-126.53
SO XBADJ MERMC4	4.16	9.33	14.21	18.66	22.55	25.75
SO YBADJ MERMC4	7.11	14.26	20.97	27.04	32.3	36.56
SO YBADJ MERMC4	39.72	24.13	36.21	-20.72	-17.08	64.55
SO YBADJ MERMC4	32.61	27.42	21.39	14.72	7.6	0.24
SO YBADJ MERMC4	-7.11	-14.26	-20.97	-27.04	-32.3	-36.56
SO YBADJ MERMC4	-39.72	-24.13	-36.21	20.72	17.08	-64.55
SO YBADJ MERMC4	-32.61	-27.42	-21.39	-14.72	-7.6	-0.24
SO BUILDHGT MERMC6	8.84	8.84	8.84	8.84	8.84	8.84
SO BUILDHGT MERMC6	8.84	8.84	8.84	8.84	8.84	8.84
SO BUILDHGT MERMC6	8.84	8.84	8.84	8.84	8.84	8.84
SO BUILDHGT MERMC6	8.84	8.84	8.84	8.84	8.84	8.84
SO BUILDHGT MERMC6	8.84	8.84	8.84	8.84	8.84	41.88
SO BUILDHGT MERMC6	52.12	52.12	8.84	8.84	8.84	8.84
SO BUILDWID MERMC6	24.81	28.65	31.62	33.62	34.61	34.54
SO BUILDWID MERMC6	34.41	34.69	33.91	32.10	29.32	25.65
SO BUILDWID MERMC6	21.26	17.33	12.87	10.95	15.01	20.22
SO BUILDWID MERMC6	24.81	28.65	31.62	33.62	34.61	34.54
SO BUILDWID MERMC6	34.41	34.69	33.91	32.10	29.32	80.18
SO BUILDWID MERMC6	40.87	43.35	12.87	10.95	15.01	20.22
SO BUILDLEN MERMC6	32.10	29.32	25.65	21.26	17.33	12.87
SO BUILDLEN MERMC6	10.95	15.01	20.22	24.81	28.65	31.62
SO BUILDLEN MERMC6	33.62	34.61	34.54	34.41	34.69	33.91
SO BUILDLEN MERMC6	32.10	29.32	25.65	21.26	17.33	12.87
SO BUILDLEN MERMC6	10.95	15.01	20.22	24.81	28.65	174.30
SO BUILDLEN MERMC6	45.77	45.94	34.54	34.41	34.69	33.91
SO XBADJ MERMC6	-2.83	-1.43	0.02	1.40	1.64	1.83
SO XBADJ MERMC6	1.40	-1.83	-6.60	-11.17	-15.41	-19.17
SO XBADJ MERMC6	-22.35	-24.86	-26.60	-28.04	-29.34	-29.76
SO XBADJ MERMC6	-29.27	-27.89	-25.67	-22.66	-18.97	-14.70
SO XBADJ MERMC6	-12.35	-13.19	-13.62	-13.64	-13.24	-355.40
SO XBADJ MERMC6	-235.25	-233.35	-7.94	-6.37	-5.34	-4.15
SO YBADJ MERMC6	-1.23	1.08	3.36	5.54	7.55	9.33
SO YBADJ MERMC6	10.83	12.00	12.80	13.22	13.23	12.84
SO YBADJ MERMC6	12.03	10.30	8.26	6.88	5.68	3.51

Appendix D – Main Nonattainment Plan Scenario Modeling Files

SO YBADJ	MERMC6	1.23	-1.08	-3.36	-5.54	-7.55	-9.33
SO YBADJ	MERMC6	-10.83	-12.00	-12.80	-13.22	-13.23	10.25
SO YBADJ	MERMC6	7.16	-29.83	-8.26	-6.88	-5.68	-3.51
SO BUILDHGT	MERMC62	7.32	7.32	8.84	6.25	6.25	6.25
SO BUILDHGT	MERMC62	6.25	6.25	6.25	6.25	6.25	8.99
SO BUILDHGT	MERMC62	8.99	8.99	8.99	8.99	8.99	8.99
SO BUILDHGT	MERMC62	6.25	6.25	8.84	8.84	8.84	8.84
SO BUILDHGT	MERMC62	8.84	8.84	8.84	6.25	41.88	41.88
SO BUILDHGT	MERMC62	41.88	8.99	8.99	8.99	8.99	7.32
SO BUILDWID	MERMC62	14.33	14.33	31.62	24.67	25.42	25.39
SO BUILDWID	MERMC62	25.29	25.46	24.87	23.52	21.45	5.81
SO BUILDWID	MERMC62	5.81	5.63	5.29	5.20	5.58	5.79
SO BUILDWID	MERMC62	18.13	20.97	31.62	33.62	34.61	34.54
SO BUILDWID	MERMC62	34.41	34.69	33.91	23.52	59.41	80.18
SO BUILDWID	MERMC62	98.51	5.63	5.29	5.20	5.58	14.33
SO BUILDLEN	MERMC62	14.33	14.33	25.65	15.45	11.70	7.59
SO BUILDLEN	MERMC62	6.73	10.90	14.74	18.13	20.97	5.37
SO BUILDLEN	MERMC62	4.89	4.27	3.51	3.34	4.12	4.77
SO BUILDLEN	MERMC62	23.52	21.45	25.65	21.26	17.33	12.87
SO BUILDLEN	MERMC62	10.95	15.01	20.22	18.13	174.11	174.30
SO BUILDLEN	MERMC62	169.20	4.27	3.51	3.34	4.12	14.33
SO XBADJ	MERMC62	-49.51	-49.34	17.59	-5.14	-3.88	-2.51
SO XBADJ	MERMC62	-2.80	-5.63	-8.28	-10.68	-12.76	5.78
SO XBADJ	MERMC62	6.78	7.57	-19.72	8.09	-19.88	6.26
SO XBADJ	MERMC62	-15.68	-14.31	-43.24	-43.47	-42.38	-40.00
SO XBADJ	MERMC62	-38.78	-39.94	-39.88	-7.45	-371.34	-375.58
SO XBADJ	MERMC62	-368.40	-11.83	-11.63	-11.43	-11.40	-48.40
SO YBADJ	MERMC62	2.69	-4.70	-16.81	3.36	3.76	4.04
SO YBADJ	MERMC62	4.21	4.24	4.15	3.92	3.58	-5.09
SO YBADJ	MERMC62	-3.55	-1.89	2.75	1.54	-3.56	4.79
SO YBADJ	MERMC62	-1.62	-2.27	16.81	11.28	5.40	-0.65
SO YBADJ	MERMC62	-6.67	-12.49	-17.94	-3.92	46.01	-7.32
SO YBADJ	MERMC62	-60.43	1.89	0.18	-1.54	-3.21	10.00

**Rush Island

**Boiler #1

** Use actual stack height as modeling with actual emissions

SO LOCATION RUSH1 Point 739918.06 4223889.95 125.27

SO SRCPARAM RUSH1 276.7678444 213.36 428.72 33.02 6.31

SO HOUREMIS .\Att-Demo-All-Source-Hourly-08-10Met-11-13Emis.txt RUSH1

**Boiler #2

** Use actual stack height as modeling with actual emissions

SO LOCATION RUSH2 Point 739922.42 4223893.92 125.27

SO SRCPARAM RUSH2 288.2351515 213.36 436.11 32.97 6.31

SO HOUREMIS .\Att-Demo-All-Source-Hourly-08-10Met-11-13Emis.txt RUSH2

**Auxiliary Boiler

**

Appendix D – Main Nonattainment Plan Scenario Modeling Files

SO LOCATION RUSH3 Point 739890.00 4224000.00 125.27
 SO SRCPARAM RUSH3 0.000288457 84.582 577.5944444 10.0584 1.524

**BPIP Outputs Dated January 23, 2012

SO BUILDHGT RUSH1	81.99	81.99	27.93	27.93	27.93	27.93
SO BUILDHGT RUSH1	27.93	27.93	81.99	81.99	81.99	81.99
SO BUILDHGT RUSH1	81.99	81.99	81.99	81.99	81.99	81.99
SO BUILDHGT RUSH1	81.99	81.99	27.93	27.93	27.93	27.93
SO BUILDHGT RUSH1	27.93	27.93	81.99	81.99	81.99	81.99
SO BUILDHGT RUSH1	81.99	81.99	81.99	81.99	81.99	81.99
SO BUILDWID RUSH1	92.65	83.82	85.03	81.01	74.53	79.12
SO BUILDWID RUSH1	83.63	85.61	89.11	96.27	100.50	101.68
SO BUILDWID RUSH1	99.77	94.83	98.46	101.62	101.69	98.67
SO BUILDWID RUSH1	92.65	83.82	85.03	81.01	74.53	79.12
SO BUILDWID RUSH1	83.63	85.61	89.11	96.27	100.50	101.68
SO BUILDWID RUSH1	99.77	94.83	98.46	101.62	101.69	98.67
SO BUILDLEN RUSH1	96.27	100.50	69.62	63.81	56.06	62.70
SO BUILDLEN RUSH1	69.55	75.23	98.67	92.65	83.82	72.44
SO BUILDLEN RUSH1	58.86	45.72	55.29	68.14	79.24	89.11
SO BUILDLEN RUSH1	96.27	100.50	69.62	63.81	56.06	62.70
SO BUILDLEN RUSH1	69.55	75.23	98.67	92.65	83.82	72.44
SO BUILDLEN RUSH1	58.86	45.72	55.29	68.14	79.24	89.11
SO XBADJ RUSH1	19.30	3.72	-39.43	-46.66	-52.47	-61.55
SO XBADJ RUSH1	-69.39	-76.06	-108.43	-118.27	-124.52	-126.99
SO XBADJ RUSH1	-125.60	-122.61	-126.65	-128.87	-127.48	-123.40
SO XBADJ RUSH1	-115.57	-104.22	-30.20	-17.16	-3.60	-1.15
SO XBADJ RUSH1	-0.16	0.83	9.76	25.62	40.70	54.55
SO XBADJ RUSH1	66.74	76.90	71.37	60.73	48.24	34.29
SO YBADJ RUSH1	71.95	82.61	46.79	45.37	42.58	38.29
SO YBADJ RUSH1	33.10	26.90	78.84	67.43	53.97	38.87
SO YBADJ RUSH1	22.58	5.61	-11.59	-28.45	-44.45	-59.10
SO YBADJ RUSH1	-71.95	-82.61	-46.79	-45.37	-42.58	-38.29
SO YBADJ RUSH1	-33.10	-26.90	-78.84	-67.43	-53.97	-38.87
SO YBADJ RUSH1	-22.58	-5.61	11.59	28.45	44.45	59.10

SO BUILDHGT RUSH2	81.99	27.93	27.93	27.93	27.93	27.93
SO BUILDHGT RUSH2	27.93	27.93	81.99	81.99	81.99	81.99
SO BUILDHGT RUSH2	81.99	81.99	81.99	81.99	81.99	81.99
SO BUILDHGT RUSH2	81.99	27.93	27.93	27.93	27.93	27.93
SO BUILDHGT RUSH2	27.93	27.93	81.99	81.99	81.99	81.99
SO BUILDHGT RUSH2	81.99	81.99	81.99	81.99	81.99	81.99
SO BUILDWID RUSH2	92.65	86.47	85.03	81.01	74.53	79.12
SO BUILDWID RUSH2	83.63	85.61	89.11	96.27	100.50	101.68
SO BUILDWID RUSH2	99.77	94.83	98.46	101.62	101.69	98.67
SO BUILDWID RUSH2	92.65	86.47	85.03	81.01	74.53	79.12
SO BUILDWID RUSH2	83.63	85.61	89.11	96.27	100.50	101.68
SO BUILDWID RUSH2	99.77	94.83	98.46	101.62	101.69	98.67
SO BUILDLEN RUSH2	96.27	76.08	69.62	63.81	56.06	62.70
SO BUILDLEN RUSH2	69.55	75.23	98.67	92.65	83.82	72.44
SO BUILDLEN RUSH2	58.86	45.72	55.29	68.14	79.24	89.11

Appendix D – Main Nonattainment Plan Scenario Modeling Files

SO BUILDLEN RUSH2	96.27	76.08	69.62	63.81	56.06	62.70
SO BUILDLEN RUSH2	69.55	75.23	98.67	92.65	83.82	72.44
SO BUILDLEN RUSH2	58.86	45.72	55.29	68.14	79.24	89.11
SO XBADJ RUSH2	14.63	-38.98	-45.04	-52.50	-58.36	-67.31
SO XBADJ RUSH2	-74.85	-81.04	-112.79	-121.88	-127.26	-128.78
SO XBADJ RUSH2	-126.38	-122.37	-125.39	-126.63	-124.33	-119.43
SO XBADJ RUSH2	-110.90	-37.10	-24.58	-11.31	2.30	4.61
SO XBADJ RUSH2	5.29	5.81	14.12	29.22	43.44	56.34
SO XBADJ RUSH2	67.52	76.66	70.11	58.49	45.09	30.32
SO YBADJ RUSH2	75.55	49.52	48.58	46.16	42.34	37.03
SO YBADJ RUSH2	30.86	23.75	74.87	62.76	48.75	33.25
SO YBADJ RUSH2	16.74	-0.28	-17.35	-33.90	-49.43	-63.46
SO YBADJ RUSH2	-75.55	-49.52	-48.58	-46.16	-42.34	-37.03
SO YBADJ RUSH2	-30.86	-23.75	-74.87	-62.76	-48.75	-33.25
SO YBADJ RUSH2	-16.74	0.28	17.35	33.90	49.43	63.46

SO BUILDHGT RUSH3	81.99	81.99	81.99	81.99	81.99	81.99
SO BUILDHGT RUSH3	81.99	81.99	81.99	81.99	81.99	81.99
SO BUILDHGT RUSH3	81.99	81.99	81.99	81.99	81.99	81.99
SO BUILDHGT RUSH3	81.99	81.99	81.99	81.99	81.99	81.99
SO BUILDHGT RUSH3	81.99	81.99	81.99	81.99	81.99	81.99
SO BUILDHGT RUSH3	81.99	81.99	81.99	81.99	81.99	81.99
SO BUILDWID RUSH3	92.65	83.82	72.44	58.86	45.72	55.29
SO BUILDWID RUSH3	68.14	79.24	89.11	96.27	100.50	101.68
SO BUILDWID RUSH3	99.77	94.83	98.46	101.62	101.69	98.67
SO BUILDWID RUSH3	92.65	83.82	72.44	58.86	45.72	55.29
SO BUILDWID RUSH3	68.14	79.24	89.11	96.27	100.50	101.68
SO BUILDWID RUSH3	99.77	94.83	98.46	101.62	101.69	98.67
SO BUILDLEN RUSH3	96.27	100.50	101.68	99.77	94.83	98.46
SO BUILDLEN RUSH3	101.62	101.69	98.67	92.65	83.82	72.44
SO BUILDLEN RUSH3	58.86	45.72	55.29	68.14	79.24	89.11
SO BUILDLEN RUSH3	96.27	100.50	101.68	99.77	94.83	98.46
SO BUILDLEN RUSH3	101.62	101.69	98.67	92.65	83.82	72.44
SO BUILDLEN RUSH3	58.86	45.72	55.29	68.14	79.24	89.11
SO XBADJ RUSH3	-84.21	-90.10	-93.25	-93.57	-91.04	-91.54
SO XBADJ RUSH3	-90.53	-86.77	-80.37	-71.53	-60.52	-47.66
SO XBADJ RUSH3	-33.36	-20.27	-17.32	-15.86	-14.23	-13.35
SO XBADJ RUSH3	-12.06	-10.40	-8.43	-6.20	-3.79	-6.92
SO XBADJ RUSH3	-11.09	-14.92	-18.30	-21.12	-23.30	-24.78
SO XBADJ RUSH3	-25.50	-25.44	-37.97	-52.28	-65.01	-75.76
SO YBADJ RUSH3	25.20	18.61	11.44	3.93	-2.59	-10.33
SO YBADJ RUSH3	-18.21	-25.39	-31.21	-36.07	-39.85	-42.41
SO YBADJ RUSH3	-43.68	-43.63	-42.31	-39.72	-35.92	-31.03
SO YBADJ RUSH3	-25.20	-18.61	-11.44	-3.93	2.59	10.33
SO YBADJ RUSH3	18.21	25.39	31.21	36.07	39.85	42.41
SO YBADJ RUSH3	43.68	43.63	42.31	39.72	35.92	31.03

**NAA SOURCES

SO LOCATION RC4K09 POINT	733110.42	4229152.675	149.97
SO LOCATION RC6F19 POINT	733450.45	4229244.88	129.92

Appendix D – Main Nonattainment Plan Scenario Modeling Files

SO LOCATION BRECK8 POINT 727679.896 4231875.566 134.36
SO LOCATION BRECK15 POINT 727679.896 4231875.566 134.36
SO LOCATION UNIM3 POINT 722160.096 4238054.6 172.32
SO LOCATION DOW18 POINT 727729.079 4240744.022 132.74
**SO LOCATION DOW57 VOLUME 727729.079 4240744.022 132.74 -Taken out as its emergency
equip
SO LOCATION DOW27C VOLUME 727729.079 4240744.022 132.74
SO LOCATION DOW27D VOLUME 727729.079 4240744.022 132.74
SO LOCATION DOW58A VOLUME 727729.079 4240744.022 132.74
SO LOCATION DOW58B VOLUME 727729.079 4240744.022 132.74
SO LOCATION DOW58C VOLUME 727729.079 4240744.022 132.74
SO LOCATION DOW58D VOLUME 727729.079 4240744.022 132.74
SO LOCATION DOW58E VOLUME 727729.079 4240744.022 132.74
SO LOCATION DOW58F VOLUME 727729.079 4240744.022 132.74
SO LOCATION DOW65 POINT 727729.079 4240744.022 132.74
SO LOCATION JMH1 POINT 728217.057 4230828.77 142.4
SO LOCATION JMH2 POINT 728217.057 4230828.77 142.4
SO LOCATION JMH3 POINT 728217.057 4230828.77 142.4
SO LOCATION JMH4 POINT 728217.057 4230828.77 142.4
SO LOCATION JMH5 POINT 728217.057 4230828.77 142.4
SO LOCATION JMH6 POINT 728217.057 4230828.77 142.4
SO LOCATION JMH7 VOLUME 728217.057 4230828.77 142.4
SO LOCATION JMH8 VOLUME 728217.057 4230828.77 142.4
SO LOCATION JMH9 POINT 728217.057 4230828.77 142.4
**SO LOCATION JMH10 POINT 728217.057 4230828.77 142.4
**SO LOCATION JMH11 POINT 728217.057 4230828.77 142.4
SO LOCATION JMH12 VOLUME 728217.057 4230828.77 142.4
SO LOCATION JMH13 VOLUME 728217.057 4230828.77 142.4
SO LOCATION JMH14 VOLUME 728217.057 4230828.77 142.4
SO LOCATION JMH15 VOLUME 728217.057 4230828.77 142.4
SO LOCATION JMH16 VOLUME 728217.057 4230828.77 142.4
SO LOCATION JMH17 VOLUME 728217.057 4230828.77 142.4
SO LOCATION JMH18 VOLUME 728217.057 4230828.77 142.4
**SO LOCATION JMH19 VOLUME 728217.057 4230828.77 142.4
**SO LOCATION JMH20 VOLUME 728217.057 4230828.77 142.4
**SO LOCATION JMH21 VOLUME 728217.057 4230828.77 142.4
**SO LOCATION JMH22 VOLUME 728217.057 4230828.77 142.4
SO LOCATION STGOB4 VOLUME 726819.998 4241850.691 163.38
SO LOCATION STGOB5 VOLUME 726819.998 4241850.691 163.38
SO LOCATION STGOB13 VOLUME 726819.998 4241850.691 163.38
SO LOCATION STGOB15 VOLUME 726819.998 4241850.691 163.38
SO LOCATION STGOB17 VOLUME 726819.998 4241850.691 163.38
SO LOCATION STGOB18 VOLUME 726819.998 4241850.691 163.38
SO LOCATION STGOB21 VOLUME 726819.998 4241850.691 163.38
SO LOCATION STGOB22 VOLUME 726819.998 4241850.691 163.38
SO LOCATION STGOB40 POINT 726819.998 4241850.691 163.38
SO LOCATION SHBRO2 VOLUME 728323.07 4234714.834 184.64
SO LOCATION CC8A POINT 726896.532 4241982.427 149.04
SO LOCATION CC8B POINT 726896.532 4241982.427 149.04
SO LOCATION CC19 VOLUME 726896.532 4241982.427 149.04
SO LOCATION CC21A VOLUME 726896.532 4241982.427 149.04

Appendix D – Main Nonattainment Plan Scenario Modeling Files

SO LOCATION CC29B VOLUME 726896.532 4241982.427 149.04
SO LOCATION CC32 VOLUME 726896.532 4241982.427 149.04
SO LOCATION CC44 VOLUME 726896.532 4241982.427 149.04
SO LOCATION CC44B VOLUME 726896.532 4241982.427 149.04
SO LOCATION FW3 POINT 728528.504 4231662.434 122.43
SO LOCATION FW2 POINT 728528.504 4231662.434 122.43
SO LOCATION MCI2 POINT 720841.988 4249604.2 191.33
SO LOCATION MCI1 POINT 720841.988 4249604.2 191.33
SO LOCATION FWT2 POINT 725705.619 4241094.372 200.33
SO LOCATION FWT6 POINT 725705.619 4241094.372 200.33
SO LOCATION ACS1 POINT 724479.424 4236856.27 132.87
SO LOCATION ACS2 POINT 724479.424 4236856.27 132.87
SO LOCATION ACS3 POINT 724479.424 4236856.27 132.87
SO LOCATION ACS4 POINT 724479.424 4236856.27 132.87
SO LOCATION ACS5 POINT 724479.424 4236856.27 132.87
SO LOCATION ACS6 POINT 724479.424 4236856.27 132.87
SO LOCATION ACS9 POINT 724479.424 4236856.27 132.87
SO LOCATION ACS10 POINT 724479.424 4236856.27 132.87
SO LOCATION AMCS11 POINT 724866.247 4236812.124 126.31
SO LOCATION PC4A POINT 720055.11 4248898.08 208.52
SO LOCATION PC7A VOLUME 720055.11 4248898.08 208.52
SO LOCATION JCCS1 VOLUME 727903.717 4240040.388 147.75
SO LOCATION HOLC1 POINT 740330.799 4221466.101 125.85
SO LOCATION HOLC2 POINT 740330.79 4221466.101 126.45
SO LOCATION HOLC3 POINT 740330.79 4221466.101 126.45
SO LOCATION HOLC4 POINT 740330.79 4221840.42 129.1
SO LOCATION HOLC5 POINT 740330.79 4221840.42 129.1
SO LOCATION AB1 POINT 742779.50 4275725.49 148.31
**SO LOCATION AB5C POINT 742799.92 4275763.25 148.25 Inactive per facility
SO LOCATION AB7B POINT 743027.943 4275660.608 140.54
SO LOCATION AB8B POINT 742759.07 4275690.82 148.43
SO LOCATION AB9B POINT 742759.07 4275690.82 148.43
SO LOCATION AB381 POINT 743027.943 4275660.608 140.54
**IL Sources
SO LOCATION DMG1 POINT 775385.01 4233237.9 132.84
SO LOCATION DMG2 POINT 775385.01 4233237.9 132.84
SO LOCATION DMG5 POINT 775385.01 4233237.9 132.84
SO LOCATION DMG13 POINT 775385.01 4233237.9 132.84
SO LOCATION GECC4 POINT 749616 4287035 126.5
SO LOCATION GECC6 POINT 749616 4287035 126.5
SO LOCATION GECC7 POINT 749616 4287035 126.5
SO LOCATION GECC10 POINT 749616 4287035 126.5
SO LOCATION GECC11 POINT 749616 4287035 126.5
SO LOCATION GECC12 POINT 749616 4287035 126.5
SO LOCATION GECC13 POINT 749616 4287035 126.5
SO LOCATION GECC14 POINT 749616 4287035 126.5
SO LOCATION GECC15 POINT 749616 4287035 126.5
SO LOCATION GECC16 POINT 749616 4287035 126.5
SO LOCATION GECC17 POINT 749616 4287035 126.5
SO LOCATION GECC18 POINT 749616 4287035 126.5
SO LOCATION GECC19 POINT 749616 4287035 126.5

Appendix D – Main Nonattainment Plan Scenario Modeling Files

SO LOCATION GECC20 POINT 749616 4287035 126.5
SO LOCATION GECC21 POINT 749616 4287035 126.5
SO LOCATION USS7 POINT 748063 4286987 128.6
SO LOCATION USS8 POINT 748063 4286987 128.6
SO LOCATION USS10 POINT 748063 4286987 128.6
SO LOCATION USS11 POINT 748063 4286987 128.6
SO LOCATION USS12 POINT 748063 4286987 128.6
SO LOCATION USS13 POINT 748063 4286987 128.6
SO LOCATION USS20 POINT 748063 4286987 128.6
SO LOCATION USS47 POINT 748063 4286987 128.6
SO LOCATION USS53 POINT 748063 4286987 128.6
SO LOCATION USS54 POINT 748063 4286987 128.6
SO LOCATION USS59 POINT 748063 4286987 128.6
SO LOCATION USS64 POINT 748063 4286987 128.6
SO LOCATION USS69 POINT 748063 4286987 128.6
SO LOCATION USS71 POINT 748063 4286987 128.6
SO LOCATION USS90 POINT 748063 4286987 128.6
SO LOCATION USS92 POINT 748063 4286987 128.6
SO LOCATION USS97 POINT 748063 4286987 128.6
SO LOCATION USS126 POINT 748063 4286987 128.6
SO LOCATION USS131 POINT 748063 4286987 128.6
SO LOCATION USS149 POINT 748063 4286987 128.6
SO LOCATION USS150 POINT 748063 4286987 128.6
SO LOCATION USS175 POINT 748063 4286987 128.6
SO LOCATION USS177 POINT 748063 4286987 128.6
SO LOCATION USS179 POINT 748063 4286987 128.6
SO LOCATION USS181 POINT 748063 4286987 128.6
SO LOCATION USS195 POINT 748063 4286987 128.6
SO LOCATION USS218 POINT 748063 4286987 128.6
SO LOCATION USS219 POINT 748063 4286987 128.6
SO LOCATION USS241 POINT 748063 4286987 128.6
SO LOCATION USS244 POINT 748063 4286987 128.6
SO LOCATION USS245 POINT 748063 4286987 128.6
SO LOCATION USS246 POINT 748063 4286987 128.6
SO LOCATION USS250 POINT 748063 4286987 128.6
SO LOCATION USS259 POINT 748063 4286987 128.6
SO LOCATION USS260 POINT 748063 4286987 128.6
SO LOCATION USS261 POINT 748063 4286987 128.6
SO LOCATION USS262 POINT 748063 4286987 128.6
SO LOCATION USS263 POINT 748063 4286987 128.6
SO LOCATION USS265 POINT 748063 4286987 128.6

**NAA SOURCES

**Using PTE values

SO SRCPARAM RC4K09 26.84 124.968 476.93 16.44 5.7912
SO SRCPARAM RC6F19 0.0025 38.1 369.0759 4.88696 2.0066
SO SRCPARAM BRECK8 0.00018144 6.096 422.0388889 5.08 0.4573
SO SRCPARAM BRECK15 0 6.096 422.0388889 0.01 0.4573
SO SRCPARAM UNIM3 0.0201 9.144 322.0388889 23.70836 1.8288
SO SRCPARAM DOW18 0.000640627 15.8496 399.8166667 3.2512 0.6096

Appendix D – Main Nonattainment Plan Scenario Modeling Files

**SO SRCPARAM DOW57 0.091 5 1.1628 4.651 -Taken out as its emergency equip
SO SRCPARAM DOW65 0.00006048 4.572 838.15 45.63 0.0762
SO SRCPARAM DOW27C 0.0003024 5 1.1628 4.651
SO SRCPARAM DOW27D 0.0003024 5 1.1628 4.651
SO SRCPARAM DOW58A 0.0002268 5 1.1628 4.651
SO SRCPARAM DOW58B 0.0001512 5 1.1628 4.651
SO SRCPARAM DOW58C 0.00006804 5 1.1628 4.651
SO SRCPARAM DOW58D 0.00006804 5 1.1628 4.651
SO SRCPARAM DOW58E 0.0000529 5 1.1628 4.651
SO SRCPARAM DOW58F 0.0000378 5 1.1628 4.651
SO SRCPARAM JMH1 0.000604 11.8872 394.2611111 0.01524 0.658368
SO SRCPARAM JMH2 0.000604 12.8016 435.9277778 0.02032 0.57912
SO SRCPARAM JMH3 0.000756 4.2672 473.15 0.01 0.5334
SO SRCPARAM JMH4 0.000756 4.2672 473.15 0.01 0.5334
SO SRCPARAM JMH5 0.0001512 11.8872 394.2611111 0.01524 0.658368
SO SRCPARAM JMH6 0.0001512 11.8872 394.2611111 0.01524 0.658368
SO SRCPARAM JMH7 3.77906E-05 5 1.1628 4.651
SO SRCPARAM JMH8 3.77906E-05 5 1.1628 4.651
SO SRCPARAM JMH9 0.0205 8.23 1255.37 0.2545 0.457
**SO SRCPARAM JMH10 0.16207 1.52 733.15 10.3124 0.1524 -Em Gen
**SO SRCPARAM JMH11 0.055 3.04 733.15 4.48 0.1524 -Em Gen
SO SRCPARAM JMH12 1.14882E-05 5 1.1628 4.651
SO SRCPARAM JMH13 0.000226744 5 1.1628 4.651
SO SRCPARAM JMH14 0.000498836 5 1.1628 4.651
SO SRCPARAM JMH15 0.000861627 5 1.1628 4.651
SO SRCPARAM JMH16 1.51163E-05 5 1.1628 4.651
SO SRCPARAM JMH17 6.199E-05 5 1.1628 4.651
SO SRCPARAM JMH18 5.29069E-05 5 1.1628 4.651
**SO SRCPARAM JMH19 0.115 5 1.1628 4.651 -Em Gen
**SO SRCPARAM JMH20 0.265 5 1.1628 4.651 -Em Gen
**SO SRCPARAM JMH21 0.265 5 1.1628 4.651 -Em Gen
**SO SRCPARAM JMH22 0.215 5 1.1628 4.651 -Em Gen
SO SRCPARAM STGOB4 0.000589534 5 1.1628 4.651
SO SRCPARAM STGOB5 0.000861627 5 1.1628 4.651
SO SRCPARAM STGOB13 0.000111482 5 1.1628 4.651
SO SRCPARAM STGOB15 0.000177843 5 1.1628 4.651
SO SRCPARAM STGOB17 0.00049279 5 1.1628 4.651
SO SRCPARAM STGOB18 0.001150725 5 1.1628 4.651
SO SRCPARAM STGOB21 0.000370499 5 1.1628 4.651
SO SRCPARAM STGOB22 0.000866993 5 1.1628 4.651
SO SRCPARAM STGOB40 3.41 47.88 595 12 1.78
**Updated unit EF Below at ULSD
**SO SRCPARAM SHBRO2 0.654 5 1.1628 4.651
SO SRCPARAM SHBRO2 0.00194 5 1.1628 4.651
SO SRCPARAM CC8A 0.01338 0.762 349.8166667 14.1732 0.6096
SO SRCPARAM CC8B 0.00014364 0.762 349.8166667 14.1732 0.6096
SO SRCPARAM CC19 0.000633446 5 1.1628 4.651
SO SRCPARAM CC21A 0.00756 5 1.1628 4.651
SO SRCPARAM CC29B 0.000766621 5 1.1628 4.651
SO SRCPARAM CC32 0.003855401 5 1.1628 4.651
SO SRCPARAM CC44 0.000144 5 1.1628 4.651

Appendix D – Main Nonattainment Plan Scenario Modeling Files

SO SRCPARAM CC44B 0.00013608 5 1.1628 4.651
SO SRCPARAM FW3 0.5629 6.09 783.15 11.684 0.253963415
SO SRCPARAM FW2 0.07711 12.8 383.15 28.0162 0.90304878
SO SRCPARAM MCI2 0.0001738 10.67 394.2611111 9.7 0.609756098
SO SRCPARAM MCI1 0.0001134 4.57 255.3722222 0.01 0.457317073
SO SRCPARAM FWT2 0.0748 14.02 383.15 11.23188 1.307926829
SO SRCPARAM FWT6 0.2483 3.96 660.9277778 11.176 0.253963415
SO SRCPARAM ACS1 0.05355 8.53 1040.372222 5.70992 0.609756098
SO SRCPARAM ACS2 0.007875 5.48 1007.594444 7.8232 0.304878049
SO SRCPARAM ACS3 0.023625 9.14 1059.816667 6.8326 0.609756098
SO SRCPARAM ACS4 0.05355 8.53 1040.372222 5.70992 0.609756098
SO SRCPARAM ACS5 0.05355 8.53 1040.372222 5.70992 0.609756098
SO SRCPARAM ACS6 0.0126 5.48 1003.705556 4.97332 0.304878049
SO SRCPARAM ACS9 0.0236 9.14 1059.816667 6.8326 0.609756098
SO SRCPARAM ACS10 0.007875 5.48 1007.594444 7.8232 0.304878049
SO SRCPARAM AMCS11 0.0315 8.23 1037.038889 5.7912 0.914634146
**SO SRCPARAM PC4A 2.11 6.09 394.2611111 15.0114 1.524390244
**Updated EF for unit below from AP42
SO SRCPARAM PC4A 0.415 6.09 394.2611111 15.0114 1.524390244
**SO SRCPARAM PC7A 0.388 5 1.1628 4.651
**Updated EF for unit below at ULSD
SO SRCPARAM PC7A 0.00000582 5 1.1628 4.651
**SO SRCPARAM JCCS1 0.09022 5 1.1628 4.651
**Updated PTE from CP2003-10-066 0.39 tpy SO2
SO SRCPARAM JCCS1 0.011 5 1.1628 4.651
**Nearby Sources
SO SRCPARAM HOLC1 8.23 158.4655 369.15 16.002 5.5992
SO SRCPARAM HOLC2 0.79 158.4655 361.15 11.94816 2.3592
SO SRCPARAM HOLC3 0.79 158.4655 361.15 11.94816 2.3592
SO SRCPARAM HOLC4 0.379 87.4776 373.15 16.61 2.11836
SO SRCPARAM HOLC5 0.379 87.4776 373.15 16.61 2.11836

** using actual biogas and coal emissions reported for 2013 AB boilers only as of 08/12/14
SO SRCPARAM AB1 48.9490517 68.58 438.7055556 6.46684 3.048
SO SRCPARAM AB7B 0.00094 30.48 449.8166667 18.62836 0.9144
SO SRCPARAM AB8B 17.7887049 68.58 449.8166667 5.62864 3.048
SO SRCPARAM AB9B 20.4352057 68.58 449.8166667 5.62864 3.048
SO SRCPARAM AB381 0.0876800693 6.096 283.15 21.336 0.3048

**IL Sources
SO SRCPARAM DMG1 210.8729216 184.404 426.4833333 26.79192 5.9436
SO SRCPARAM DMG2 287.0515468 184.404 423.7055556 26.79192 5.9436
SO SRCPARAM DMG5 0.00001438 84.1248 552.5944444 16.21536 1.0668
SO SRCPARAM DMG13 50.4145544 184.404 360.9277778 26.79192 5.9436
SO SRCPARAM GECC4 0.004314 7.9248 422.0388889 20.75688 1.3716
SO SRCPARAM GECC6 1.254219574 25.908 1366.483333 22.76856 2.7432
SO SRCPARAM GECC7 0.078630415 6.096 477.5944444 21.21408 1.524
SO SRCPARAM GECC10 0 22.5552 486.4833333 8.93064 1.152144
SO SRCPARAM GECC11 1.261775113 25.908 1366.483333 22.76856 2.7432
SO SRCPARAM GECC12 1.254219574 25.908 1366.483333 22.76856 2.7432
SO SRCPARAM GECC13 1.261775113 25.908 1366.483333 22.76856 2.7432

Appendix D – Main Nonattainment Plan Scenario Modeling Files

SO SRCPARAM GECC14 1.261775113 25.908 1366.483333 22.76856 2.7432
SO SRCPARAM GECC15 1.261775113 25.908 1366.483333 22.76856 2.7432
SO SRCPARAM GECC16 0.079104092 6.096 477.5944444 21.21408 1.524
SO SRCPARAM GECC17 0.079104092 6.096 477.5944444 21.21408 1.524
SO SRCPARAM GECC18 0.078630415 6.096 477.5944444 21.21408 1.524
SO SRCPARAM GECC19 0.079104092 6.096 477.5944444 21.21408 1.524
SO SRCPARAM GECC20 0.079104092 6.096 477.5944444 21.21408 1.524
SO SRCPARAM GECC21 26.5190208 60.96 406.4833333 11.82624 3.9624
SO SRCPARAM USS7 1.3758784 66.1416 533.15 15.14856 2.1336
SO SRCPARAM USS8 0.142362 18.288 409.8166667 9.26592 2.31648
SO SRCPARAM USS10 6.337266 19.2024 338.7055556 19.47672 3.3528
SO SRCPARAM USS11 5.697356 45.4152 518.7055556 11.94816 1.8288
SO SRCPARAM USS12 2.4796872 68.58 533.15 18.56232 2.7432
SO SRCPARAM USS13 0.1860772 18.288 409.8166667 9.26592 2.31648
SO SRCPARAM USS20 0.0609712 17.3736 616.4833333 4.63296 4.191
SO SRCPARAM USS47 4.1857304 27.432 449.8166667 4.7244 2.182368
SO SRCPARAM USS53 0 68.58 460.9277778 4.51104 4.2672
SO SRCPARAM USS54 0 60.96 460.9277778 3.13944 3.3528
SO SRCPARAM USS59 1.118764 46.3296 441.4833333 1.18872 2.1336
SO SRCPARAM USS64 1.0212676 46.3296 441.4833333 10.63752 2.1336
SO SRCPARAM USS69 0.395059439 5.4864 314.8166667 25.96896 1.2192
SO SRCPARAM USS71 0.9896316 76.2 529.2611111 4.99872 2.7432
SO SRCPARAM USS90 0.414731567 5.4864 326.4833333 25.96896 1.2192
SO SRCPARAM USS92 1.0390988 76.2 475.3722222 4.96824 2.7432
SO SRCPARAM USS97 0.490358 32.004 408.7055556 7.19328 2.19456
SO SRCPARAM USS126 0.3169352 3.6576 428.15 9.32688 1.95072
SO SRCPARAM USS131 0 16.4592 505.3722222 5.6388 0.6096
SO SRCPARAM USS149 0.0025884 60.96 455.3722222 10.5156 1.34112
SO SRCPARAM USS150 0.2303676 19.2024 323.7055556 13.13688 2.1336
SO SRCPARAM USS175 0.044578 17.3736 616.4833333 4.63296 4.191
SO SRCPARAM USS177 0.0511928 44.5008 644.2611111 9.81456 3.834384
SO SRCPARAM USS179 0.026562161 53.0352 376.4833333 6.76656 2.10312
SO SRCPARAM USS181 0.027884833 53.0352 376.4833333 6.76656 2.10312
SO SRCPARAM USS195 0.0831164 17.3736 616.4833333 4.63296 4.191
SO SRCPARAM USS218 0.0046016 16.1544 421.4833333 10.30224 0.9144
SO SRCPARAM USS219 0 13.1064 414.2611111 5.7912 0.70104
SO SRCPARAM USS241 5.1443012 49.0728 449.8166667 15.97152 5.4864
SO SRCPARAM USS244 0 11.8872 413.15 7.07136 0.618744
SO SRCPARAM USS245 0 11.8872 413.15 7.07136 0.618744
SO SRCPARAM USS246 0.002876 11.8872 413.15 7.07136 0.618744
SO SRCPARAM USS250 0 11.2776 500.9277778 9.99744 0.576072
SO SRCPARAM USS259 0 17.6784 497.5944444 8.41248 1.03632
SO SRCPARAM USS260 0 17.6784 497.5944444 8.41248 1.03632
SO SRCPARAM USS261 0 17.6784 497.5944444 8.41248 1.03632
SO SRCPARAM USS262 0 17.6784 497.5944444 8.41248 1.03632
SO SRCPARAM USS263 3.5725672 41.7576 500.9277778 18.95856 1.8288
SO SRCPARAM USS265 5.697356 36.576 533.15 26.76144 2.1336
BACKGRND ANNUAL 9.0
BACKUNIT PPB

SO SRCGROUP Lab LABADIE1 LABADIE2 LABADIE3 LABADIE4 LABADIE5

Appendix D – Main Nonattainment Plan Scenario Modeling Files

SO SRCGROUP Meramec MERMC1 MERMC2 MERMC3 MERMC4 MERMC6 MERMC62
SO SRCGROUP Rush RUSH1 RUSH2 RUSH3
SO SRCGROUP CC CC8A CC8B CC19 CC21A CC29B CC32 CC44 CC44B
SO SRCGROUP AB AB1 AB7B AB8B AB9B AB381
SO SRCGROUP SHBRO SHBRO2
SO SRCGROUP STGO STGOB4 STGOB5 STGOB13 STGOB15 STGOB17 STGOB18 STGOB21
STGOB22 STGOB40
SO SRCGROUP JMH JMH1-JMH22
SO SRCGROUP DOW DOW18 DOW27C DOW27D DOW58A DOW58B DOW58C DOW58D
DOW58E DOW58F DOW65
SO SRCGROUP DMG DMG1 DMG2 DMG5 DMG13
SO SRCGROUP GECC GECC4 GECC6 GECC7 GECC10 GECC11 GECC12 GECC13 GECC14
GECC15 GECC16 GECC17 GECC18 GECC19 GECC20 GECC21
SO SRCGROUP USS USS7 USS8 USS10 USS11 USS12 USS13 USS20 USS47 USS53 USS54
USS59 USS64 USS69 USS71 USS90 USS97 USS241 USS263 USS265 USS241 USS92 USS259
USS250 USS150 USS245 USS244
SO SRCGROUP UNIM UNIM3
SO SRCGROUP FW FW2 FW3
SO SRCGROUP FWT FWT2 FWT6
SO SRCGROUP MCI MCI1-MCI2
SO SRCGROUP ACS ACS1-ACS10
SO SRCGROUP AMCS AMCS11
SO SRCGROUP PC PC4A PC7A
SO SRCGROUP JCCS JCCS1
SO SRCGROUP RC RC4K09 RC6F19
SO SRCGROUP BRECK BRECK8 BRECK15
SO SRCGROUP HOL HOLC1-HOLC5
SO SRCGROUP ALL BACKGROUND
SO FINISHED

RE STARTING

**NAA Grid-100m Spacing Grid 1 of 4 each with ~10,000 receptors
** AERMAP - VERSION 11103 12/12/14
** 11:11:34
** JEFFERSON COUNTY NAA GRID 1
**
** A total of 13 NED files were used
** A total of 9999 receptors were processed
** DOMAINXY 680000 4200000 15 780000 4300000 15
** ANCHORXY 680000 4200000 680000 4200000 15 4
** Terrain heights were extracted by default

** ONLY EXCERPT OF RECEPTORS INCLUDED BELOW

RE ELEVUNIT METERS

DISCCART	718770.70	4222634.30	202.02	226.52
DISCCART	718840.50	4222634.50	194.08	226.56
DISCCART	718940.50	4222634.70	197.75	214.65
DISCCART	718843.00	4222635.00	193.97	226.54
DISCCART	718943.00	4222635.00	198.11	214.41
DISCCART	719040.50	4222635.00	209.95	209.95

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DISCCART	719140.50	4222635.20	207.61	211.88
DISCCART	719240.50	4222635.40	193.85	225.64
DISCCART	719340.50	4222635.70	199.81	225.51
DISCCART	719440.50	4222635.90	214.13	217.60
DISCCART	719540.50	4222636.10	222.83	222.83
DISCCART	719640.50	4222636.40	216.18	226.11
DISCCART	719740.50	4222636.60	206.43	227.03
DISCCART	719840.50	4222636.80	215.53	219.77
DISCCART	719940.50	4222637.00	220.83	220.83
DISCCART	720040.50	4222637.30	217.31	217.31
DISCCART	720140.50	4222637.50	206.82	223.52
DISCCART	720240.50	4222637.70	207.23	207.23
DISCCART	720340.50	4222638.00	206.74	206.74
DISCCART	720440.50	4222638.20	203.05	206.13
DISCCART	720540.50	4222638.40	192.34	211.32
DISCCART	720640.50	4222638.70	181.72	213.35
DISCCART	720740.50	4222638.90	179.37	212.48
DISCCART	720840.50	4222639.10	192.06	208.03
DISCCART	720940.50	4222639.40	202.05	205.82
DISCCART	721040.50	4222639.60	202.24	212.66
DISCCART	721140.50	4222639.80	196.23	221.53
DISCCART	721240.50	4222640.00	199.89	221.53

RE FINISHED

ME STARTING

ME SURFFILE .\HERCILX-ONSITE-08-10.sfc

ME PROFFILE .\HERCILX-ONSITE-08-10.pfl

ME SURFDATA 03960 2008 Downtown_STL,MO

ME UAIRDATA 04833 2008 Lincoln, Ill

ME SITEDATA 99999 2008 DRH

ME PROFBASE 126 Meters

ME FINISHED

OU STARTING

OU RECTABLE ALLAVE 4-10

OU SUMMFILE PTE-Act-CEMS-NAAgrid-08-10-MET-11-13-CEMS-G1.SUM

OU PLOTFILE 1 ALL 4 PTE-Act-CEMS-NAAgrid-08-10-MET-11-13-CEMS-G1.PLT

OU MAXDCONT All 4 THRESH 196.5 PTE-Act-CEMS-NAAgrid-08-10-MET-11-13-CEMS-G1.DAT

OU FINISHED

**Excerpt of corresponding plotfile for preceding input file.
 Below is the corresponding Plotfile to Input file above. Plotfiles for other 3
 sub-sectors are not included for brevity, but are available in digital format
 upon request. (Only excerpt of plotfile included for brevity.)**

* AERMOD (14134): SO2 Jefferson NAA All sources in Jeff NAA at PTE and outside NAA int 04/30/15
 * AERMET (14134): 16:25:48
 * MODELING OPTIONS USED: RegDFAULT CONC ELEV
 * PLOT FILE OF 4TH-HIGHEST MAX DAILY 1-HR VALUES AVERAGED OVER 3 YEARS FOR
 SOURCE GROUP: ALL
 * FOR A TOTAL OF 9999 RECEPTORS.
 * FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,A5,5X,A8,2X,10(F13.5,2X,I8.8,2X:))
 * X Y AVERAGE CONC ZELEV ZHILL ZFLAG AVE GRP RANK NET ID
 AVER CONC YR1 DATE YR1 AVER CONC YR2 DATE YR2 AVER CONC YR3 DATE YR3
 *

X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	RANK	NET ID
718770.70000	4222634.30000	70.90949	202.02	226.52	0.00	1-HR	ALL	4TH	82.24655
08100411	65.37834	09071609	65.10359	10091014					
718840.50000	4222634.50000	71.02413	194.08	226.56	0.00	1-HR	ALL	4TH	82.35636
08100411	65.48405	09071609	65.23198	10091014					
718940.50000	4222634.70000	71.18311	197.75	214.65	0.00	1-HR	ALL	4TH	82.57700
08100411	65.64655	09071609	65.32577	10091014					
718843.00000	4222635.00000	71.02779	193.97	226.54	0.00	1-HR	ALL	4TH	82.36125
08100411	65.48672	09071609	65.23541	10091014					
718943.00000	4222635.00000	71.18674	198.11	214.41	0.00	1-HR	ALL	4TH	82.58378
08100411	65.65006	09071609	65.32638	10091014					
719040.50000	4222635.00000	71.33842	209.95	209.95	0.00	1-HR	ALL	4TH	82.83463
08100411	65.81624	09071609	65.36440	10091014					
719140.50000	4222635.20000	71.50226	207.61	211.88	0.00	1-HR	ALL	4TH	83.03371
08100411	65.97727	09071609	65.49580	10091014					
719240.50000	4222635.40000	71.67370	193.85	225.64	0.00	1-HR	ALL	4TH	83.18650
08100411	66.13179	09071609	65.70281	10091014					
719340.50000	4222635.70000	71.83561	199.81	225.51	0.00	1-HR	ALL	4TH	83.42343
08100411	66.30081	09071609	65.78261	10091014					
719440.50000	4222635.90000	72.01665	214.13	217.60	0.00	1-HR	ALL	4TH	83.69708
08100411	66.47794	09071609	65.87493	10102911					
719540.50000	4222636.10000	72.21212	222.83	222.83	0.00	1-HR	ALL	4TH	83.94929
08100411	66.65294	09071609	66.03412	10102911					
719640.50000	4222636.40000	72.36968	216.18	226.11	0.00	1-HR	ALL	4TH	84.10098
08090308	66.81674	09071609	66.19133	10102911					
719740.50000	4222636.60000	72.48612	206.43	227.03	0.00	1-HR	ALL	4TH	84.12838
08090308	66.98004	09071609	66.34994	10102911					
719840.50000	4222636.80000	72.50410	215.53	219.77	0.00	1-HR	ALL	4TH	83.99062
08090308	67.15926	09071609	66.36242	10011613					
719940.50000	4222637.00000	72.57344	220.83	220.83	0.00	1-HR	ALL	4TH	83.83151
08090308	67.33724	09071609	66.55157	10011613					

Appendix D – Main Nonattainment Plan Scenario Modeling Files

720040.50000	4222637.30000	72.64361	217.31	217.31	0.00	1-HR	ALL	4TH	83.67927
08090308	67.50920 09071609	66.74237	10011613						
720140.50000	4222637.50000	72.71163	206.82	223.52	0.00	1-HR	ALL	4TH	83.52865
08090308	67.67074 09091307	66.93551	10011613						
720240.50000	4222637.70000	72.59903	207.23	207.23	0.00	1-HR	ALL	4TH	83.26259
08090308	67.40517 09091307	67.12932	10011613						
720340.50000	4222638.00000	72.47011	206.74	206.74	0.00	1-HR	ALL	4TH	82.95872
08090308	67.12735 09091307	67.32425	10011613						
720440.50000	4222638.20000	72.33916	203.05	206.13	0.00	1-HR	ALL	4TH	82.63521
08090308	66.87828 09091307	67.50400	10102911						
720540.50000	4222638.40000	72.24038	192.34	211.32	0.00	1-HR	ALL	4TH	82.33148
08090308	66.71604 09091307	67.67362	10102911						
720640.50000	4222638.70000	72.53295	181.72	213.35	0.00	1-HR	ALL	4TH	82.36944
08022314	67.38549 09053106	67.84391	10102911						
720740.50000	4222638.90000	72.88908	179.37	212.48	0.00	1-HR	ALL	4TH	82.58967
08022314	68.06138 09053106	68.01620	10102911						
720840.50000	4222639.10000	73.06191	192.06	208.03	0.00	1-HR	ALL	4TH	82.82882
08022314	68.16432 09053106	68.19260	10102911						
720940.50000	4222639.40000	73.25812	202.05	205.82	0.00	1-HR	ALL	4TH	83.06579
08022314	68.33944 09053106	68.36913	10102911						
721040.50000	4222639.60000	73.52275	202.24	212.66	0.00	1-HR	ALL	4TH	83.29487
08022314	68.72667 09053106	68.54672	10102911						
721140.50000	4222639.80000	73.82152	196.23	221.53	0.00	1-HR	ALL	4TH	83.51970
08022314	69.21973 09053106	68.72515	10102911						
721240.50000	4222640.00000	74.01305	199.89	221.53	0.00	1-HR	ALL	4TH	83.75619
08022314	69.37677 09053106	68.90617	10102911						
721340.50000	4222640.30000	74.16623	205.59	219.81	0.00	1-HR	ALL	4TH	83.99670
08022314	69.41301 09053106	69.08898	10102911						
721440.50000	4222640.50000	74.26779	214.99	214.99	0.00	1-HR	ALL	4TH	84.24254
08022314	69.28586 09053106	69.27497	10102911						
721540.50000	4222640.70000	74.40435	217.94	217.94	0.00	1-HR	ALL	4TH	84.48428
08022314	69.26736 09053106	69.46141	10102911						
721640.50000	4222641.00000	74.56395	215.73	227.36	0.00	1-HR	ALL	4TH	84.72340
08022314	69.32068 09053106	69.64777	10102911						
721740.50000	4222641.20000	74.68884	215.21	227.52	0.00	1-HR	ALL	4TH	84.96613
08022314	69.26375 09053106	69.83663	10102911						
721840.50000	4222641.40000	74.72687	222.67	226.57	0.00	1-HR	ALL	4TH	85.21850
08022314	68.93229 09053106	70.02981	10102911						
721940.50000	4222641.70000	74.78817	225.04	225.04	0.00	1-HR	ALL	4TH	85.46837
08022314	68.67317 09053106	70.22297	10102911						
722040.50000	4222641.90000	74.96902	212.92	227.86	0.00	1-HR	ALL	4TH	85.70672
08022314	68.78708 09022313	70.41327	10102911						
722140.50000	4222642.10000	75.17940	200.55	228.15	0.00	1-HR	ALL	4TH	85.94608
08022314	68.98574 09022313	70.60637	10102911						
722240.50000	4222642.40000	75.39420	205.85	223.52	0.00	1-HR	ALL	4TH	86.20598
08022314	69.17141 09022313	70.80522	10102911						
722340.50000	4222642.60000	75.61101	210.45	223.23	0.00	1-HR	ALL	4TH	86.46734
08022314	69.35924 09022313	71.00644	10102911						

Appendix D – Main Nonattainment Plan Scenario Modeling Files

722440.50000	4222642.80000	75.82949	212.81	225.61	0.00	1-HR	ALL	4TH	86.72875
08022314	69.55063	09022313	71.20911	10102911					
722540.50000	4222643.00000	76.05180	224.90	224.90	0.00	1-HR	ALL	4TH	87.00209
08022314	69.73561	09022313	71.41771	10102911					
722640.50000	4222643.30000	76.27220	216.10	225.61	0.00	1-HR	ALL	4TH	87.25747
08022314	69.93922	09022313	71.61992	10102911					
722740.50000	4222643.50000	76.49531	209.36	220.65	0.00	1-HR	ALL	4TH	87.51686
08022314	70.14345	09022313	71.82563	10102911					
722840.50000	4222643.70000	76.72156	208.46	220.50	0.00	1-HR	ALL	4TH	87.78474
08022314	70.34445	09022313	72.03548	10102911					
722940.50000	4222644.00000	76.94891	203.27	220.50	0.00	1-HR	ALL	4TH	88.05053
08022314	70.55038	09022313	72.24581	10102911					
723040.50000	4222644.20000	77.17624	192.22	226.23	0.00	1-HR	ALL	4TH	88.31159
08022314	70.75977	09022313	72.45736	10102911					
723140.50000	4222644.40000	77.40763	189.06	232.95	0.00	1-HR	ALL	4TH	88.58415
08022314	70.96549	09022313	72.67326	10102911					
723240.50000	4222644.70000	77.64503	194.59	232.95	0.00	1-HR	ALL	4TH	88.87021
08022314	71.17178	09022313	72.89309	10102911					
723340.50000	4222644.90000	77.88397	198.73	232.95	0.00	1-HR	ALL	4TH	89.15709
08022314	71.37926	09022313	73.11555	10102911					
723440.50000	4222645.10000	78.12079	190.97	232.95	0.00	1-HR	ALL	4TH	89.43226
08022314	71.59312	09022313	73.33700	10102911					
723540.50000	4222645.40000	78.36255	190.49	232.95	0.00	1-HR	ALL	4TH	89.71920
08022314	71.80590	09022313	73.56257	10102911					
723640.50000	4222645.60000	78.60818	192.41	232.90	0.00	1-HR	ALL	4TH	90.01195
08022314	72.02098	09022313	73.79162	10102911					
723740.50000	4222645.80000	78.89444	179.68	232.95	0.00	1-HR	ALL	4TH	90.28758
08022314	72.23300	09022313	74.16273	10091016					
723840.50000	4222646.10000	79.21218	170.17	232.95	0.00	1-HR	ALL	4TH	90.56767
08022314	72.43776	09022313	74.63111	10091016					