

APPENDIX J

Nitrogen Oxide (NO_x) and Sulfur Dioxide (SO₂) Emissions from Electric Generating Units, Six State Region

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NOx EGU emissions from the southwest quadrant in the six state region (Arkansas, Illinois, Indiana, Kentucky, Missouri and Tennessee)

State	Facility Name	1995	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Diff 2002-2009
AR	Cecil Lynch					547.516	108.931	54.150		1.645	0.383	41.278	81.831	52.861	31.820	-22.330
AR	Hamilton Moses				399.741	150.986	77.641	52.341		0.726		0.118			19.904	-32.437
AR	Harvey Couch	329.000	406.842	623.267	342.677	299.131	161.099	75.254	13.370	22.213	112.481	27.062	28.345	36.403	233.665	158.411
AR	Lake Catherine	1,724.000	959.339	1,710.251	2,666.246	2,451.584	2,060.917	1,570.033	547.766	140.483	204.357	25.580	89.304	119.088	191.427	-1,378.606
AR	Robert E Ritchie	1,536.000	1,328.810	2,258.241	1,814.740	2,731.185	234.329	394.040	29.937		0.386		0.028			-394.040
AR	Thomas Fitzhugh	260.000	350.240	435.189	432.003	279.404	218.152	74.218	38.538	7.126	76.271	56.221	91.000	22.008	35.158	-39.060
AR	Carl Bailey	400.000	185.920	417.436	443.711	456.088	343.662	147.790	92.563	264.028	138.203	36.815	16.159	16.617	22.587	-125.203
AR	McClellan	132.000	220.334	520.858	559.179	668.243	545.167	278.436	312.515	444.042	205.248	159.970	235.764	254.114	165.513	-112.923
AR	Pine Bluff Energy Center						48.544	227.881	792.504	267.021	208.157	190.162	171.742	181.731	192.218	-35.663
AR	Oswald Generating Station							93.230	55.455			87.341	82.954	65.943	47.805	-45.425
AR	Dell Power Plant												14.255	10.621	26.106	-26.106
AR	Union Power Station								279.909	212.366	241.079	357.035	245.425	209.283	277.551	277.551
AR	Hot Spring Energy Facility							45.168	69.481	51.097	37.539	45.935	57.436	75.514	70.869	25.701
AR	Hot Spring Power Co., LLC											41.388	102.932	95.756	131.884	115.863
AR	Harry D. Mattison Power Plant				291.160	12.790	3.405	10.100	2.502	2.436	1.808	0.568	42.895	94.308	8.102	-1.998
AR	City Water & Light - City of Jonesboro												22.753	12.066	12.796	12.796
AR	White Bluff	22,643.000	20,093.059	20,826.629	20,540.407	22,515.306	19,159.856	17,704.706	19,016.176	18,206.888	16,262.701	14,155.370	13,899.686	16,472.099	14,523.365	-3,181.341
AR	Flint Creek Power Plant	5,052.000	6,406.228	6,399.141	6,096.715	6,017.559	5,940.657	5,095.808	4,755.575	4,944.856	4,627.796	5,460.765	5,345.459	4,919.110	3,782.247	-1,313.561
AR	Independence	20,512.000	14,440.054	14,181.018	17,546.506	15,657.667	18,559.994	16,314.772	15,743.107	15,520.502	13,171.061	14,662.846	17,353.184	15,123.051	14,338.106	-1,976.662
AR	Fulton							3.166	1.749	0.483	5.751	4.701	2.696	3.104	5.322	2.156
IL	MEPI Gt Facility					12.439	63.590	23.482	12.906	5.736	19.007	11.294	14.598	1.612		-23.482
IL	Grand Tower	2,733.000	3,356.631	2,079.753	2,175.263	2,502.152	121.022	342.379	53.633	76.605	108.796	95.696	169.972	27.605	26.269	-316.110
IL	Joppa Steam	11,487.000	11,937.108	9,509.504	8,446.814	8,768.414	6,897.938	5,796.474	5,771.068	5,860.460	5,524.015	5,705.479	5,480.446	5,353.293	4,443.690	-1,352.784
IL	Marion	5,212.000	8,741.620	11,731.451	9,073.212	7,884.878	7,718.437	6,702.744	6,557.043	6,102.328	4,480.101	5,304.037	4,707.746	3,300.080	1,449.072	-5,253.672
IN	Broadway Avenue Generating Station								14.615	17.003	34.403	37.529	34.879	58.114	21.104	21.104
IN	F B Culley Generating Station	6,711.000	6,646.278	8,224.351	7,670.028	7,826.647	6,542.040	6,318.379	4,703.753	3,337.351	3,371.308	3,212.462	2,441.482	2,474.554	1,021.417	-5,296.962
IN	A B Brown Generating Station	6,352.000	7,272.066	6,774.732	8,215.769	6,864.382	7,251.616	7,399.654	6,772.653	5,318.755	5,102.997	4,882.712	4,755.943	5,391.888	1,720.865	-5,678.789
IN	Rockport	33,613.000	37,417.014	39,146.648	37,946.072	36,994.414	34,996.919	34,242.691	35,411.110	18,341.678	21,125.294	28,124.042	19,298.564	22,959.781	19,762.411	-14,480.280
IN	Alcoa Allowance Management Inc	18,959.000	24,133.025	22,409.209	18,391.374	18,150.905	17,227.721	17,550.143	15,721.045	11,872.880	10,879.288	10,363.734	9,414.214	9,611.655	9,912.383	-7,837.780
KY	Green River	2,589.000	2,169.682	3,784.753	3,654.350	3,996.891	3,257.025	2,197.557	1,834.710	1,676.741	1,554.670	1,482.256	2,215.984	2,250.947	1,419.712	-777.845
KY	Henderson 1	270.000	163.778	168.567	110.494	112.914	84.393	39.811	18.824		424.140	29.525	20.407			-39.811
KY	Elmer Smith	10,264.000	14,419.634	12,361.516	12,639.834	12,678.747	14,200.798	9,559.302	10,745.300	7,893.466	7,707.415	7,044.592	5,957.139	5,431.085	3,008.530	-6,550.772
KY	Shawnee	37,277.000	34,770.118	27,761.923	23,955.841	19,674.324	18,708.260	20,061.123	19,922.612	18,598.772	19,378.630	18,216.354	19,043.877	20,006.490	13,607.296	-6,453.827
KY	HMP&L Station 2	9,565.000	5,739.061	5,954.542	6,074.481	6,058.206	5,592.452	5,684.995	4,922.224	4,147.661	3,707.426	4,061.843	3,684.490	3,559.313	1,038.245	-4,648.750
KY	Robert Reid	569.000	1,275.733	1,024.100	1,507.360	1,425.558	1,119.094	1,295.672	1,176.010	608.780	1,119.668	453.659	756.681	453.836	86.324	-1,209.348
KY	Marshall							40.689					30.059	10.211	9.128	-31.561
KY	Calvert City Cogen								42.538	54.522	49.481	49.154	50.813	47.298	46.961	46.961
KY	R D Green	7,347.000	7,154.551	7,885.653	7,257.571	7,322.474	7,736.881	7,400.614	6,839.052	6,338.331	5,691.520	6,160.742	5,557.144	5,856.550	3,694.438	-3,706.176
KY	D B Wilson	8,672.000	7,318.152	9,553.018	9,876.013	8,717.227	9,556.388	8,516.200	7,653.898	6,816.366	6,330.159	5,772.617	6,599.161	5,369.112	990.329	-7,525.871
KY	Wickliffe Paper Company							51.141	4.760			2.782	4.133		3.496	3.496
MO	Asbury	5,870.000	7,197.510	6,396.548	6,097.883	5,876.884	4,768.680	6,169.076	5,278.962	5,611.444	5,532.284	5,693.852	4,158.777	4,830.208	794.331	-5,374.745
MO	Viaduct														0.319	0.319
MO	James River	4,114.000	3,928.015	4,336.563	4,562.866	4,960.423	4,160.054	4,584.306	4,055.427	3,215.586	3,199.377	3,021.279	2,064.580	1,808.043	987.841	-3,596.465
MO	New Madrid Power Plant	48,632.000	54,246.274	55,610.078	52,221.513	35,860.836	37,781.545	37,464.764	39,030.946	28,662.798	32,239.911	28,757.109	23,474.567	11,792.854	3,222.443	-34,242.321
MO	Southwest	2,016.000	2,319.519	2,921.097	2,546.864	2,362.372	2,931.298	2,671.483	3,348.559	2,785.636	2,685.278	2,471.465	2,643.711	2,035.561	773.829	-1,897.654
MO	Empire District Elec Co Energy Ctr							15.498	17.682		35.755	37.618	36.185	39.941	44.952	44.952
MO	Sikeston	4,823.000	4,398.372	13,758.188	2,295.740	2,362.114	2,366.590	2,204.988	2,284.650	2,346.262	2,687.144	2,272.439	2,802.062	2,232.697	2,051.982	-153.006
MO	State Line (MO)					1,697.341	1,195.000	145.483	66.630	71.673	102.617	77.097	103.734	114.030	60.329	-85.154
MO	St. Francis Power Plant				6.847	28.166	52.430	37.413	27.270	33.447	54.429	56.503	60.444	46.314	41.059	3.646
MO	Essex Power Plant				12.078	37.984	26.497	15.854	2.236	1.483	1.790	8.951	4.653	0.933	3.522	-12.332
MO	McCartney Generating Station							13.262	11.561	6.151	30.051	34.693	36.514	29.637	23.517	10.255
TN	Cargill Corn Milling								4.529	9.354	5.604	2.476	3.429	13.359	5.186	5.186
TN	Allen	28,967.000	29,192.938	26,389.223	16,215.273	18,707.780	18,560.367	14,470.535	11,524.486	11,304.850	12,493.329	13,287.657	12,647.573	8,061.377	2,605.600	-11,864.935
TN	Cumberland	140,381.000	161,522.193	119,059.899	82,671.367	52,098.238	51,179.775	49,943.269	33,609.443	34,958.724	27,185.993	34,359.768	32,804.224	30,679.373	5,347.880	-44,595.389
TN	Johnsonville	20,376.000	18,700.859	18,003.154	20,369.075	22,650.222	20,394.436	23,913.561	22,890.018	20,057.981	17,813.329	18,201.568	18,228.328	15,492.381	8,520.994	-15,392.567
TN	Packaging Corporation of America							14.046	17.768		8.409	8.894	15.290	10.583	2.323	2.323
TN	Brownsville CT				0.000	75.121	25.354	39.976	8.268	6.088	5.482	15.464	17.636	2.581	10.990	-28.986
TN	Cleason Generating Facility					3.711	66.374	73.208	2.675			2.181	40.666	14.365	1.767	-71.441
TN	Memphis Refinery								3.083	3.764						0.000
TN	Lagoon Creek						31.060	84.126	93.619	37.642	93.341	67.203	58.360	50.647	38.658	-45.468

SO2 EGU emissions from the southwest quadrant in the six state region (Arkansas, Illinois, Indiana, Kentucky, Missouri and Tennessee)																
State	Facility Name	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Diff 2002-2009
AR	Cecil Lynch					0.550	0.284	0.134		0.004	0.001	0.043	0.161	0.106	0.087	-0.047
AR	Hamilton Moses				0.425	0.366	0.225	0.182		0.003		0.000			0.020	-0.162
AR	Harvey Couch	1.200	1.158	1.446	0.739	0.866	0.504	0.339	0.061	0.119	0.302	0.138	0.131	0.127	0.199	-0.140
AR	Lake Catherine	4.000	2.121	3.894	6.068	5.358	5.032	4.067	1.754	0.572	0.736	0.088	0.124	0.355	0.425	-3.642
AR	Robert E Ritchie	4.500	3.558	5.393	4.141	7.038	0.551	0.888	0.102		0.004		0.000			-0.888
AR	Thomas Fitzhugh	53.200	5.057	3.373	4.072	145.170	529.418	171.348	8.682	0.447	13.699	0.387	12.555	0.147	0.173	-171.175
AR	Carl Bailey	277.800	58.962	9.452	65.479	262.956	1,560.006	380.279	434.511	1,193.956	220.403	149.074	5.459	2.074	44.905	-335.374
AR	McClellan	191.100	86.982	492.294	583.164	1,640.601	2,369.913	440.674	1,668.734	2,089.962	461.214	441.110	433.467	378.960	395.428	-45,246
AR	Pine Bluff Energy Center						0.891	11.105	9.866	6.086		3.712	3.416	2.447	3.539	-7.347
AR	Oswald Generating Station							0.799	0.471			0.709	0.767	0.553	0.399	-0.400
AR	Dell Power Plant												0.341	0.466	0.842	0.842
AR	Union Power Station								7.498	5.709	6.741	10.495	8.271	6.144	10.021	10.021
AR	Hot Spring Energy Facility							2.021	2.403	1.347	1.390	2.160	2.359	3.135	3.878	1.857
AR	Hot Spring Power Co., LLC										1.089	3.283	3.624	4.445	5.941	5.941
AR	Harry D. Mattison Power Plant				1.320	0.153	0.043	0.093	0.010	0.009	0.007	0.008	0.313	0.312	0.117	0.024
AR	City Water & Light - City of Jonesboro												0.120	0.202	0.618	0.618
AR	White Bluff	55,442.300	46,717.162	36,861.405	38,205.650	38,270.989	36,715.823	34,151.420	39,303.695	44,497.997	34,889.863	38,122.068	33,515.241	37,938.569	33,831.800	-319.620
AR	Flint Creek Power Plant	11,083.300	14,798.804	15,047.198	11,853.735	12,862.888	14,531.152	10,961.213	9,429.045	10,098.571	8,227.253	8,526.449	8,722.594	8,501.698	6,811.486	-4,149.727
AR	Independence	28,369.900	23,120.513	23,853.312	26,674.296	21,860.675	23,015.138	24,613.833	22,140.180	23,588.239	22,363.256	26,172.297	29,538.868	26,448.230	27,425.294	2,811.461
AR	Fulton						0.225	0.032	0.024	0.006	0.055	0.051	0.035	0.038	0.066	0.034
IL	MEPI Gt Facility					0.056	0.298	0.114	0.082	0.028	0.096	0.058	0.073	0.008		-0.114
IL	Grand Tower	19,552.500	25,924.566	15,022.842	12,395.633	13,774.121	0.764	2.698	0.396	0.626	0.791	0.816	1.409	0.235	0.228	-2.470
IL	Joppa Steam	25,286.300	24,200.470	23,852.295	23,744.240	23,437.885	22,179.662	23,128.668	24,025.955	28,047.838	25,963.058	26,408.120	26,282.623	27,870.276	24,238.000	1,109.332
IL	Marion	6,738.900	14,829.846	18,879.013	17,450.847	13,632.516	15,375.962	8,994.578	7,415.624	9,452.215	7,211.294	6,376.801	4,897.904	4,941.809	7,683.849	-1,310.729
IN	Broadway Avenue Generating Station														0.051	0.051
IN	F B Culley Generating Station	7,097.600	6,953.191	9,590.010	11,329.301	11,737.300	9,795.111	7,118.784	5,846.450	5,586.106	5,511.413	5,997.784	3,676.808	3,943.167	2,050.911	-5,067.873
IN	A B Brown Generating Station	8,243.600	12,453.271	11,732.514	11,253.049	6,863.146	7,592.535	8,638.494	8,218.871	8,234.489	9,038.907	8,956.180	8,743.677	10,001.686	5,778.035	-2,860.459
IN	Rockport	66,623.200	65,643.269	67,445.946	66,844.521	63,388.832	57,365.214	53,195.834	53,561.112	44,626.036	67,205.171	83,543.429	48,833.226	60,051.359	54,795.883	1,600.049
IN	Alcoa Allowance Management Inc	92,918.700	118,901.086	113,117.406	119,655.391	91,386.491	87,885.157	98,777.416	108,678.847	106,124.323	82,961.638	72,858.611	78,824.578	62,542.754	3,482.221	-95,295.195
KY	Green River	18,419.400	17,659.142	24,727.785	20,975.691	23,360.441	19,353.469	12,980.311	15,767.294	17,928.802	15,918.355	14,176.622	22,060.630	21,819.157	14,723.934	1,743.623
KY	Henderson I	2,443.000	1,236.658	1,580.281	996.286	698.409	517.747	382.438	185.616		2,260.999	280.264	185.226			-382.438
KY	Elmer Smith	6,279.600	7,688.039	7,010.738	8,402.480	6,855.680	6,369.780	7,112.707	5,015.789	6,767.491	5,824.134	2,524.958	3,123.394	3,690.886	6,722.994	-389.713
KY	Shawnee	45,886.100	38,297.020	34,056.721	35,874.065	34,086.406	31,428.302	35,577.304	35,513.212	33,884.212	36,231.217	35,815.442	36,305.075	36,622.793	27,421.501	-8,155.803
KY	HMP&L Station 2	5,893.100	4,623.253	4,526.741	5,805.418	5,901.596	6,404.070	3,484.405	4,297.808	4,563.710	4,740.400	4,573.738	5,034.947	4,643.840	4,809.985	1,325.580
KY	Robert Reid	2,597.600	6,235.240	5,962.657	7,913.005	7,438.507	9,896.544	10,581.732	9,590.269	5,648.117	9,279.932	3,690.093	6,735.605	3,937.403	556.250	-10,025.482
KY	Marshall							3.248					2.249	0.475	0.183	-3.065
KY	Calvert City Cogen								0.000	563.018	0.000	501.647	476.837	517.345		0.000
KY	R D Green	3,398.700	2,326.189	3,964.293	4,843.797	3,382.645	2,755.033	3,423.808	3,134.598	2,887.774	2,280.189	2,565.434	2,705.017	3,849.455	3,094.847	-328.961
KY	D B Wilson	9,520.400	7,964.024	10,602.329	10,416.064	10,108.639	10,612.971	8,893.132	8,527.971	9,799.534	11,007.761	9,306.498	9,499.157	9,508.191	6,746.768	-2,146.364
MO	Asbury	6,338.500	9,236.182	8,212.184	8,045.600	3,735.024	2,216.355	4,349.278	4,165.111	7,598.696	11,964.932	14,516.802	9,870.444	10,755.964	11,006.486	6,657.200
MO	Viaduct														0.000	0.000
MO	James River	15,744.200	6,576.695	5,926.539	5,027.386	6,511.824	5,262.321	4,713.524	3,790.657	4,210.944	4,157.430	4,039.824	3,604.224	4,230.490	3,260.966	-1,452.558
MO	New Madrid Power Plant	16,862.300	19,398.310	17,753.460	16,433.221	16,450.755	14,509.083	15,797.742	14,879.721	15,105.466	13,700.156	14,677.609	14,291.497	14,989.129	14,479.763	-1,317.979
MO	Southwest	3,066.100	3,784.749	6,837.259	3,537.868	2,737.145	3,631.654	3,389.584	3,855.902	3,412.201	3,208.007	4,165.906	4,229.211	3,301.206	3,780.143	390.559
MO	Empire District Elec Co Energy Ctr								0.263	0.200	2.232	0.276	0.265	0.210	0.366	0.366
MO	Sikeston	9,947.600	10,570.175	6,580.253	7,304.945	6,523.288	6,795.820	6,236.152	6,232.519	6,251.031	7,564.874	6,351.207	7,002.002	6,527.872	6,023.139	-213.013
MO	State Line (MO)					3.145	2.941	3.038	2.245	2.722	4.264	3.564	4.388	4.909	2.361	-0.677
MO	St. Francis Power Plant				0.326	1.455	1.757	1.240	0.873	1.024	1.638	1.801	1.923	1.600	1.299	0.059
MO	Essex Power Plant				0.056	0.189	0.100	0.037	0.011	0.007	0.015	0.068	0.034	0.006	0.026	-0.011
MO	McCartney Generating Station							0.053	0.063	0.034	0.162	0.205	0.162	0.122	0.084	0.031
TN	Allen	20,331.500	21,323.002	20,211.091	13,680.792	18,862.247	15,454.411	18,710.852	18,784.668	23,495.008	23,882.405	17,413.370	13,210.194	12,495.023	11,872.418	-6,838.434
TN	Cumberland	22,775.200	20,967.820	20,500.933	15,920.839	19,855.527	15,550.240	16,661.130	14,791.004	18,526.319	17,473.366	18,351.838	17,096.259	14,701.383	12,461.277	-4,199.853
TN	Johnsonville	126,366.500	115,937.741	114,588.358	119,777.916	118,425.947	94,198.249	108,792.932	100,028.458	95,676.869	74,603.353	86,792.722	64,993.775	50,797.270	32,030.210	-76,762.722
TN	Brownsville CT				0.029	0.683	0.253	0.397	0.084	0.040	0.051	0.157	0.201	0.015	0.085	-0.312
TN	Gleason Generating Facility					0.027	0.459	0.485	0.017			0.013	0.233	0.075	0.009	-0.476
TN	Memphis Refinery								4.318	0.642						0.000
TN	Lagoon Creek						0.895	5.478	16.729	3.926	11.084	4.717	3.088	1.662	0.971	-4.507