

Amos Plant: Toxics Release Inventory for 2011

Plant: Amos, St. Albans, West Virginia

Contact: Jon Webster Telephone (304) 759-3159

2011 Generation 15,169,707 megawatthours

2011 Coal Burn 12,272,842,000 pounds

Amos Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	625	430	1,485	100,408	102,948
Barium	1,005	2,100	35,905	758,117	797,127
Beryllium	32	0	545	12,000	12,577
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	1,110	3	12,305	300,413	313,831
Cobalt	510	2	4,305	63,000	67,817
Copper	952	161	10,905	222,000	234,018
Lead	579	105	1,566	84,491	86,741
Manganese	1,350	1,600	60,105	215,000	278,055
Mercury	484	2	16	844	1,346
Nickel	1,650	190	10,805	188,000	200,645
Selenium	4,105	450	1,365	327,115	333,036
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	1,205	0	19,305	310,000	330,510
Zinc	2,705	322	14,705	200,000	217,732
Hydrochloric Acid Aerosol	110,000	(b)	(b)	(b)	110,000
Hydrogen Fluoride	23,000	(b)	(b)	(b)	23,000
Sulfuric Acid Aerosol	420,000	(b)	(b)	(b)	420,000
Ammonia	5,350	440	N/A	N/A	5,790
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.2	0	0	0	0
PACs	5.6	0	0	0	6
Dioxins (grams)	1.8	0	0	0	2
Dioxins (ounces)	0.064	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	574,668	5,806	173,317	2,781,388	3,535,179

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Big Sandy Plant: Toxics Release Inventory for 2011

Plant: Big Sandy, Louisa, Kentucky

Contact: Kenneth Borders Telephone (606) 686-2415

2011 Generation 6,373,601 megawatthours

2011 Coal Burn 5,117,872,000 pounds

Big Sandy Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	1,205	715	41,505	49	43,474
Barium	3,405	6,130	318,005	990	328,530
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	1,250	34	65,905	37,049	104,238
Cobalt	335	305	27,105	0	27,745
Copper	685	1,246	87,905	8,100	97,936
Lead	977	23	34,296	54	35,349
Manganese	1,550	230	87,005	3,700	92,485
Mercury	304	0.1	210	2	517
Nickel	1,220	987	58,005	15,000	75,212
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	1,605	0	128,005	0	129,610
Zinc	2,405	360	83,605	0	86,370
Hydrochloric Acid Aerosol	4,700,000	(b)	(b)	(b)	4,700,000
Hydrogen Fluoride	310,000	(b)	(b)	(b)	310,000
Sulfuric Acid Aerosol	530,000	(b)	(b)	(b)	530,000
Ammonia	1,750	330	N/A	N/A	2,080
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	2.3	0	0	0	2
Dioxins (grams)	0.7	0	0	0	1
Dioxins (ounces)	0.025	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	5,556,693	10,360	931,551	64,944	6,563,549

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Cardinal Plant: Toxics Release Inventory for 2011

Plant: Cardinal, Brilliant, Ohio

Contact: Bernie Lombard Telephone (740) 598-6514

2011 Generation 8,059,448 megawatthours

2011 Coal Burn 6,862,826,000 pounds

Cardinal Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	215	3,500	54,575	860	59,150
Barium	515	1	488,005	17,006	505,527
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	800	430	98,005	290,861	390,096
Cobalt	93	180	41,005	0	41,278
Copper	339	3,901	122,005	63,000	189,245
Lead	188	0	48,693	874	49,755
Manganese	690	2	139,005	29,000	168,697
Mercury	165	0.0	600	35	800
Nickel	890	523	88,005	110,000	199,418
Selenium	8,605	1,300	9,095	170	19,170
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	545	0	201,005	0	201,550
Zinc	1,305	18	118,005	0	119,328
Hydrochloric Acid Aerosol	3,200,000	(b)	(b)	(b)	3,200,000
Hydrogen Fluoride	290,000	(b)	(b)	(b)	(a)
Sulfuric Acid Aerosol	560,000	(b)	(b)	(b)	560,000
Ammonia	3,050	1,390	N/A	N/A	4,440
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	3.1	0	0	0	3
Dioxins (grams)	1.0	0	0	0	1
Dioxins (ounces)	0.035	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	4,067,403	11,247	1,408,003	511,805	5,998,458

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Clinch River Plant: Toxics Release Inventory for 2011

Plant: Clinch River, Cleveland, Virginia

Contact: Karen Gilmer Telephone (276) 889-7314

2011 Generation 1,300,178 megawatthours

2011 Coal Burn 1,160,646,000 pounds

Clinch River Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	115	77	9,469	76	(a)
Barium	305	212	64,805	1,500	66,822
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	(a)	(a)	(a)	(a)	(a)
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	(a)	(a)	(a)	(a)	(a)
Lead	98	0	7,524	79	7,701
Manganese	185	0	16,905	160	17,250
Mercury	43	0	58	3	104
Nickel	(a)	(a)	(a)	(a)	(a)
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	195	0	26,205	0	26,400
Zinc	(a)	(a)	(a)	(a)	0
Hydrochloric Acid Aerosol	1,000,000	(b)	(b)	(b)	1,000,000
Hydrogen Fluoride	74,000	(b)	(b)	(b)	74,000
Sulfuric Acid Aerosol	66,000	(b)	(b)	(b)	66,000
Ammonia	480	1,814	N/A	N/A	2,294
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.0	0	0	0	0
PACs	0.5	0	0	0	1
Dioxins (grams)	0.2	0	0	0	0
Dioxins (ounces)	0.007	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	1,141,422	2,103	124,966	1,818	1,270,308

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(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Conesville Plant: Toxics Release Inventory for 2011

Plant: Conesville, Conesville, Ohio

Contact: Rex Green Telephone (740) 829-4065

2011 Generation 6,993,005 megawatthours

2011 Coal Burn 6,615,644,000 pounds

Conesville Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	525	599	54,405	121	55,651
Barium	1,005	35	413,005	2,300	416,345
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	2,950	13	83,005	61,123	147,091
Cobalt	440	77	35,505	0	36,022
Copper	475	5,907	112,005	13,000	131,387
Lead	452	3	44,366	143	44,963
Manganese	1,150	850	125,005	6,100	133,105
Mercury	329	5	554	5	893
Nickel	2,250	838	73,105	24,000	100,193
Selenium	2,405	4,488	15,705	23	22,621
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	765	0	168,005	0	168,770
Zinc	1,705	707	111,005	0	113,417
Hydrochloric Acid Aerosol	130,000	(b)	(b)	(b)	130,000
Hydrogen Fluoride	32,000	(b)	(b)	(b)	32,000
Sulfuric Acid Aerosol	480,000	(b)	(b)	(b)	480,000
Ammonia	910	100	N/A	N/A	1,010
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	2.8	0	0	0	3
Dioxins (grams)	0.9	0	0	0	1
Dioxins (ounces)	0.032	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	657,364	13,622	1,235,670	106,815	2,013,470

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Flint Creek Plant: Toxics Release Inventory for 2011

Plant: Flint Creek, Gentry, Arkansas

Contact: Scott Carney Telephone (479) 736-3526

2011 Generation 3,786,795 megawatthours

2011 Coal Burn 4,606,882,000 pounds

Flint Creek Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	2,605	5,200	530,005	470	538,280
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	(a)	(a)	(a)	(a)	(a)
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	195	2,100	22,005	3,000	27,300
Lead	124	4	5,792	27	5,947
Manganese	475	140	52,005	1,400	54,020
Mercury	219	0	34	0	253
Nickel	(a)	(a)	(a)	(a)	(a)
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	245	0	30,005	0	30,250
Zinc	715	170	20,305	0	21,190
Hydrochloric Acid Aerosol	19,000	(b)	(b)	(b)	19,000
Hydrogen Fluoride	68,000	(b)	(b)	(b)	68,000
Sulfuric Acid Aerosol	(a)	(b)	(b)	(b)	(a)
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	1.5	0	0	0	2
Dioxins (grams)	0.5	0	0	0	1
Dioxins (ounces)	0.018	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	91,580	7,614	660,151	4,897	764,241

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Gavin Plant: Toxics Release Inventory for 2011

Plant: Gavin, Chesire, Ohio

Contact: Doug Workman Telephone (740) 925-3135

2011 Generation 18,184,345 megawatthours

2011 Coal Burn 14,709,344,000 pounds

Gavin Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	615	75	121,775	237	122,702
Barium	955	2,478	885,005	4,731	893,169
Beryllium	30	22	13,985	0	14,037
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	1,150	148	189,805	50,244	241,347
Cobalt	490	137	76,305	0	76,932
Copper	990	39	249,005	11,000	261,034
Lead	572	38	95,637	303	96,550
Manganese	1,350	0	292,905	5,000	299,255
Mercury	233	1	1,548	10	1,792
Nickel	1,350	619	165,805	20,000	187,774
Selenium	4,805	15	35,052	47	39,919
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	44	37	34,665	0	34,746
Vanadium	985	0	370,605	0	371,590
Zinc	2,805	662	243,805	0	247,272
Hydrochloric Acid Aerosol	250,000	(b)	(b)	(b)	250,000
Hydrogen Fluoride	59,000	(b)	(b)	(b)	59,000
Sulfuric Acid Aerosol	840,000	(b)	(b)	(b)	840,000
Ammonia	6,250	1	N/A	N/A	6,251
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.3	0	0	0	0
PACs	6.6	0	0	0	7
Dioxins (grams)	2.1	0	0	0	2
Dioxins (ounces)	0.074	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	1,171,631	4,272	2,775,902	91,572	4,043,377

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Glen Lyn Plant: Toxics Release Inventory for 2011

Plant: Glen Lyn, Glen Lyn, Virginia

Contact: Henry Parker Telephone (540) 726-1139

2011 Generation 226,003 megawatthours

2011 Coal Burn 203,848,000 pounds

Glen Lyn Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	(a)	(a)	(a)	(a)	(a)
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	(a)	(a)	(a)	(a)	(a)
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	(a)	(a)	(a)	(a)	(a)
Lead	13	0	58	1,304	1,375
Manganese	(a)	(a)	(a)	(a)	(a)
Mercury	11	0	0	8	19
Nickel	(a)	(a)	(a)	(a)	(a)
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	(a)	(a)	(a)	(a)	(a)
Zinc	(a)	(a)	(a)	(a)	(a)
Hydrochloric Acid Aerosol	180,000	(b)	(b)	(b)	180,000
Hydrogen Fluoride	(a)	(b)	(b)	(b)	(a)
Sulfuric Acid Aerosol	(a)	(b)	(b)	(b)	(a)
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.0	0	0	0	0
PACs	0.1	0	0	0	0
Dioxins (grams)	(a)	0	0	0	(a)
Dioxins (ounces)	(a)	0	0	0	(a)
Dioxins (ounces TEQ) (c)	0	0	0	0	(a)
Totals	180,024	0	58	1,312	181,394

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Kammer/Mitchell Plant: Toxics Release Inventory for 2011

Plant: Kammer/Mitchell, Moundsville, West Virginia

Contact: Jeff Palmer Telephone (304) 843-6051

2011 Generation 10,902,989 megawatthours
2011 Coal Burn 8,990,198,000 pounds

Kammer/Mitchell Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	395	1,409	68,005	211	70,020
Barium	735	3,000	490,005	4,100	497,840
Beryllium	22	1	8,005	0	8,028
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	820	81	100,005	37,212	138,118
Cobalt	410	64	42,005	0	42,479
Copper	475	3,400	140,005	8,100	151,980
Lead	616	19	55,773	231	56,639
Manganese	950	1,800	130,005	3,700	136,455
Mercury	261	0	607	9	877
Nickel	1,000	1,120	89,005	15,000	106,125
Selenium	4,805	609	18,005	41	23,460
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	655	0	200,005	0	200,660
Zinc	1,805	260	130,005	0	132,070
Hydrochloric Acid Aerosol	1,200,000	(b)	(b)	(b)	1,200,000
Hydrogen Fluoride	130,000	(b)	(b)	(b)	130,000
Sulfuric Acid Aerosol	460,000	(b)	(b)	(b)	460,000
Ammonia	3,350	1,500	N/A	N/A	4,850
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.2	0	0	0	0
PACs	4.1	0	0	0	4
Dioxins (grams)	1.3	0	0	0	1
Dioxins (ounces)	0.046	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	1,806,303	13,263	1,471,435	68,604	3,359,605

Notes

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Kanawha River Plant: Toxics Release Inventory for 2011

Plant: Kanawha River, Glasgow, West
Virginia

Contact: James Simms Telephone (304) 353-4751

2011 Generation 1,609,974 megawatthours

2011 Coal Burn 1,363,362,000 pounds

Kanawha River Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	66	0	5	11,037	11,108
Barium	105	690	5	74,740	75,540
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	(a)	(a)	(a)	(a)	(a)
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	320	1,500	5	22,200	24,025
Lead	57	17	0	9,040	9,115
Manganese	360	87	5	21,000	21,452
Mercury	74	0	0	54	(a)
Nickel	(a)	(a)	(a)	(a)	(a)
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	98	0	5	31,000	31,103
Zinc	265	28	5	21,000	(a)
Hydrochloric Acid Aerosol	1,200,000	(b)	(b)	(b)	1,200,000
Hydrogen Fluoride	84,000	(b)	(b)	(b)	84,000
Sulfuric Acid Aerosol	89,000	(b)	(b)	(b)	89,000
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.0	0	0	0	0
PACs	0.6	0	0	0	1
Dioxins (grams)	0.2	0	0	0	0
Dioxins (ounces)	0.007	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	1,374,346	2,322	30	190,071	1,566,769

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Mountaineer Plant: Toxics Release Inventory for 2011

Plant: Mountaineer, New Haven, West Virginia

Contact: Randy Brown Telephone (304) 882-4042

2011 Generation 9,388,577 megawatthours

2011 Coal Burn 7,378,842,000 pounds

Mountaineer Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	245	59	58,155	98	58,557
Barium	355	610	435,005	2,008	437,978
Beryllium	15	0	6,985	0	7,000
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	640	0	91,805	46,098	138,543
Cobalt	115	0	36,305	0	36,420
Copper	335	51	119,005	10,000	129,391
Lead	232	0	48,071	106	48,409
Manganese	485	0	195,205	4,600	200,290
Mercury	32	1	777	4	814
Nickel	635	290	78,405	18,000	97,330
Selenium	2,505	660	17,088	20	20,273
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	475	0	175,605	0	176,080
Zinc	1,305	212	132,005	0	133,522
Hydrochloric Acid Aerosol	20,000	(b)	(b)	(b)	20,000
Hydrogen Fluoride	18,000	(b)	(b)	(b)	18,000
Sulfuric Acid Aerosol	290,000	(b)	(b)	(b)	290,000
Ammonia	3,250	0	N/A	N/A	3,250
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	3	0	0	0	3
Dioxins (grams)	1.1	0	0	0	1
Dioxins (ounces)	0.039	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	338,627	1,882	1,394,416	80,933	1,815,858

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Muskingum River Plant: Toxics Release Inventory for 2011

Plant: Muskingum River, Waterford, Ohio

Contact: Jim Ludwig Telephone (740) 984-3468

2011 Generation 5,831,061 megawatthours

2011 Coal Burn 4,797,210,000 pounds

Muskingum River Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	515	520	39,005	330	40,370
Barium	1,205	1,900	280,005	6,600	289,710
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	550	340	59,005	29,330	89,225
Cobalt	180	0	24,005	0	24,185
Copper	404	3,600	74,005	6,300	84,309
Lead	444	0	32,261	338	33,043
Manganese	700	170	76,005	2,900	79,775
Mercury	378	0	134	13	525
Nickel	615	550	50,005	11,000	62,170
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	775	0	120,005	0	120,780
Zinc	1,505	740	76,005	0	78,250
Hydrochloric Acid Aerosol	3,900,000	(b)	(b)	(b)	3,900,000
Hydrogen Fluoride	300,000	(b)	(b)	(b)	300,000
Sulfuric Acid Aerosol	910,000	(b)	(b)	(b)	910,000
Ammonia	1,180	540	N/A	N/A	1,720
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	2.2	0	0	0	2
Dioxins (grams)	0.7	0	0	0	1
Dioxins (ounces)	0.025	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	5,118,453	8,361	830,440	56,812	6,014,066

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Northeastern Plant: Toxics Release Inventory for 2011

Plant: Northeastern, Oologah, Oklahoma

Contact: Sammie Miller Telephone (918) 581-0063

2011 Generation 10,366,889 megawatthours

2011 Coal Burn 8,378,356,000 pounds

Northeastern Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	4,005	2,100	490,005	704	496,814
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	600	50	10,505	13,040	24,195
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	345	120	17,905	2,900	21,270
Lead	205	43	4,295	49	4,592
Manganese	1,050	1,000	49,005	1,300	52,355
Mercury	454	0	10	2	466
Nickel	710	43	12,905	5,300	18,958
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	365	0	27,005	0	27,370
Zinc	1,205	130	15,905	0	17,240
Hydrochloric Acid Aerosol	43,000	(b)	(b)	(b)	43,000
Hydrogen Fluoride	130,000	(b)	(b)	(b)	130,000
Sulfuric Acid Aerosol	14,000	(b)	(b)	(b)	14,000
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	2.7	0	0	0	3
Dioxins (grams)	0.8	0	0	0	1
Dioxins (ounces)	0.028	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	195,942	3,486	627,540	23,295	850,263

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Oklaunion Plant: Toxics Release Inventory for 2011

Plant: Oklaunion, Vernon, Texas

Contact: Patrick Hunter Telephone (940) 886-2735

2011 Generation 3,393,533 megawatthours

2011 Coal Burn 4,247,780,000 pounds

Oklaunion Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	2,005	0	200,005	530	202,540
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	(a)	(a)	(a)	(a)	(a)
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	165	0	5,005	3,300	8,470
Lead	107	0	1,174	26	1,307
Manganese	650	0	24,005	1,500	26,155
Mercury	187	0	14	1	202
Nickel	(a)	(a)	(a)	(a)	(a)
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	225	0	11,005	0	11,230
Zinc	615	0	5,805	0	6,420
Hydrochloric Acid Aerosol	35,000	(b)	(b)	(b)	35,000
Hydrogen Fluoride	19,000	(b)	(b)	(b)	19,000
Sulfuric Acid Aerosol	(a)	(b)	(b)	(b)	(a)
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	1.3	0	0	0	1
Dioxins (grams)	0.4	0	0	0	0
Dioxins (ounces)	0.014	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	57,955	0	247,013	5,357	310,326

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Picway Plant: Toxics Release Inventory for 2011

Plant: Picway, Lockbourne, Ohio

Contact: Rex Green Telephone (740) 829-4065

2011 Generation 69,373 megawatthours

2011 Coal Burn 99,824,000 pounds

Oklaunion Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	(a)	(a)	(a)	(a)	(a)
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	(a)	(a)	(a)	(a)	(a)
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	(a)	(a)	(a)	(a)	(a)
Lead	7	0	641	12	660
Manganese	(a)	(a)	(a)	(a)	(a)
Mercury	19	0	3	1	23
Nickel	(a)	(a)	(a)	(a)	(a)
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	(a)	(a)	(a)	(a)	(a)
Zinc	(a)	(a)	(a)	(a)	(a)
Hydrochloric Acid Aerosol	(a)	(b)	(b)	(b)	(a)
Hydrogen Fluoride	(a)	(b)	(b)	(b)	(a)
Sulfuric Acid Aerosol	8,900	(b)	(b)	(b)	8,900
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.0	0	0	0	0
PACs	0.0	0	0	0	0.00
Dioxins (grams)	(a)	0	0	0	(a)
Dioxins (ounces)	(a)	0	0	0	(a)
Dioxins (ounces TEQ) (c)	0	0	0	0	(a)
Totals	8,926	0	644	13	9,583

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Pirkey Plant: Toxics Release Inventory for 2011

Plant: Pirkey, Hallsville, Texas

Contact: Samantha McDonald Telephone (903) 927-5853

2011 Generation 4,721,914 megawatthours

2011 Coal Burn 7,840,486,000 pounds

Pirkey Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	56	0	21,005	2	21,064
Barium	625	13	990,005	48	990,691
Beryllium	12	0	22,805	0	22,817
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	450	0	72,005	42,002	114,458
Cobalt	41	0	27,305	0	27,346
Copper	175	0	71,005	9,300	80,480
Lead	116	0	51,293	5	51,414
Manganese	630	0	511,005	4,200	515,835
Mercury	683	0	891	0	1,574
Nickel	660	0	56,005	17,000	73,665
Selenium	3,205	1	22,205	0	25,411
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	16	0	43,005	0	43,021
Vanadium	78	0	157,005	0	157,083
Zinc	335	0	64,405	0	64,740
Hydrochloric Acid Aerosol	16,000	(b)	(b)	(b)	16,000
Hydrogen Fluoride	78,000	(b)	(b)	(b)	78,000
Sulfuric Acid Aerosol	39,000	(b)	(b)	(b)	39,000
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	N/A	N/A	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	1.9	0	0	0	1.9
Dioxins (grams)	0.6	0	0	0	1
Dioxins (ounces)	0.021	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	140,084	16	2,109,944	72,558	2,322,602

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Rockport Plant: Toxics Release Inventory for 2011

Plant: Rockport, Rockport, Indiana

Contact: John LaGrange Telephone (812) 649-2050

2011 Generation 16,391,328 megawatthours

2011 Coal Burn 18,171,238,000 pounds

Rockport Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	115	0	30,005	0	30,120
Arsenic	425	189	45,305	120	46,039
Barium	6,005	12,150	2,340,005	2,500	2,360,660
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	1,070	127	97,005	28,123	126,325
Cobalt	230	31	39,605	0	39,866
Copper	755	762	158,005	6,100	165,622
Lead	533	29	50,894	148	51,604
Manganese	1,850	2,110	262,005	2,800	268,765
Mercury	288	0	977	5	1,270
Nickel	1,550	190	97,005	11,000	109,745
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	40	0	26,405	0	26,445
Vanadium	1,005	0	219,005	0	220,010
Zinc	2,805	170	150,005	0	152,980
Hydrochloric Acid Aerosol	1,700,000	(b)	(b)	(b)	1,700,000
Hydrogen Fluoride	330,000	(b)	(b)	(b)	330,000
Sulfuric Acid Aerosol	160,000	(b)	(b)	(b)	160,000
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.2	0	0	0	0
PACs	6.0	0	0	0	6.0
Dioxins (grams)	1.9	0	0	0	2
Dioxins (ounces)	0.067	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	2,206,677	15,757	3,516,226	50,796	5,789,457

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Sporn Plant: Toxics Release Inventory for 2011

Plant: Sporn, New Haven, West
Virginia

Contact: David Thompson Telephone (304) 882-1683

2011 Generation 1,491,990 megawatthours

2011 Coal Burn 1,392,256,000 pounds

Sporn Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	125	6	11,005	41	11,177
Barium	375	700	71,005	811	72,891
Beryllium	10	0	1,205	0	1,215
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	390	0	15,005	11,043	26,438
Cobalt	290	1	6,005	0	6,296
Copper	111	4,000	19,005	2,500	25,616
Lead	116	0	8,922	56	9,094
Manganese	410	380	18,005	1,100	19,895
Mercury	77	0	51	2	130
Nickel	440	460	12,005	4,500	17,405
Selenium	2,105	1	1,705	8	3,819
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	195	0	30,005	0	30,200
Zinc	385	100	18,005	0	18,490
Hydrochloric Acid Aerosol	1,300,000	(b)	(b)	(b)	1,300,000
Hydrogen Fluoride	85,000	(b)	(b)	(b)	85,000
Sulfuric Acid Aerosol	87,000	(b)	(b)	(b)	87,000
Ammonia	77	0	N/A	N/A	77
Chlorine	0.0	0	(a)	(a)	0
Benzo(g,h,i)perylene	0.0	0	0	0	0
PACs	0.6	0	0	0	0.6
Dioxins (grams)	0.2	0	0	0	0
Dioxins (ounces)	0.007	0	0	0	0.007
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	1,477,107	5,647	211,928	20,060	1,714,742

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Tanners Creek: Toxics Release Inventory for 2011

**Plant: Tanners Creek, Lawrenceburg,
Indiana**

Contact: Sharon McFarland Telephone (812) 532-3124

2011 Generation 3,918,937 megawatthours

2011 Coal Burn 4,055,504,000 pounds

Tanners Creek Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	88	2,600	42,005	77	44,770
Barium	465	11,000	1,060,005	1,502	1,072,972
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	390	140	68,005	34,077	102,612
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	142	3,700	99,005	7,500	110,347
Lead	86	59	44,482	81	44,708
Manganese	390	0	134,005	3,400	137,795
Mercury	83	0	544	3	630
Nickel	560	530	58,005	14,000	73,095
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	175	0	147,005	0	147,180
Zinc	535	53	112,005	0	112,593
Hydrochloric Acid Aerosol	1,200,000	(b)	(b)	(b)	1,200,000
Hydrogen Fluoride	120,000	(b)	(b)	(b)	120,000
Sulfuric Acid Aerosol	83,000	(b)	(b)	(b)	83,000
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	1.6	0	0	0	1.6
Dioxins (grams)	0.5	0	0	0	1
Dioxins (ounces)	0.018	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	1,405,916	18,082	1,765,066	60,641	3,249,704

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Welsh: Toxics Release Inventory for 2011

Plant: Welsh, Pittsburg, Texas

Contact: Michael Brice Telephone (903) 855-5444

2011 Generation 10,888,600 megawatthours

2011 Coal Burn 13,581,342,000 pounds

Welsh Plant Estimated Releases for 2011 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	77	110	3,905	0	4,092
Arsenic	115	110	2,005	81	2,311
Barium	3,805	14,000	340,005	1,639	359,449
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	840	180	7,605	33,083	41,708
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	416	6,200	13,005	7,200	26,821
Lead	211	105	3,661	94	4,071
Manganese	1,250	580	33,005	3,300	38,135
Mercury	512	1	0	3	516
Nickel	1,020	800	8,605	13,000	23,425
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	465	0	19,005	0	19,470
Zinc	1,605	300	13,005	0	14,910
Hydrochloric Acid Aerosol	59,000	(b)	(b)	(b)	59,000
Hydrogen Fluoride	150,000	(b)	(b)	(b)	150,000
Sulfuric Acid Aerosol	20,000	(b)	(b)	(b)	20,000
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.2	0	0	0	0
PACs	4.3	0	0	0	4.3
Dioxins (grams)	1.3	0	0	0	1
Dioxins (ounces)	0.046	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	239,321	22,386	443,806	58,399	763,911

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.