

Amos Plant: Toxics Release Inventory for 2012

Plant: Amos, St. Albans, West Virginia
Contact: Jon Webster Telephone (304) 759-3159
2012 Generation 12,969,046 megawatthours
2012 Coal Burn 10,405,178,000 pounds

Chemical	Amos Plant Estimated Releases for 2012 (Pounds)				
	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	549	201	1,265	88,150	90,165
Barium	908	2,000	23,005	652,974	678,887
Beryllium	29	0	385	10,000	10,414
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	1,000	2	9,305	280,152	290,459
Cobalt	468	2	3,005	130,000	133,475
Copper	859	271	7,905	203,000	212,035
Lead	508	6	1,111	72,165	73,790
Manganese	1,181	1,600	51,105	195,000	248,886
Mercury	446	1	12	756	1,216
Nickel	1,380	180	7,705	180,000	189,265
Selenium	3,515	721	1,097	26,030	31,362
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	980	0	14,105	270,000	285,085
Zinc	2,325	303	11,605	170,000	184,233
Hydrochloric Acid Aerosol	95,000	(b)	(b)	(b)	95,000
Hydrogen Fluoride	20,200	(b)	(b)	(b)	20,200
Sulfuric Acid Aerosol	420,000	(b)	(b)	(b)	420,000
Ammonia	4,590	550	N/A	N/A	5,140
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.2	0	0	0	0
PACs	4.8	0	0	0	5
Dioxins (grams)	1.5	0	0	0	2
Dioxins (ounces)	0.053	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	553,943	5,837	131,610	2,278,227	2,969,618

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.

Big Sandy Plant: Toxics Release Inventory for 2012

Plant: Big Sandy, Louisa, Kentucky
Contact: James Burton Telephone (606) 686-2415
2012 Generation 2,661,344 megawatthours
2012 Coal Burn 2,252,460,000 pounds

Big Sandy Plant Estimated Releases for 2012 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	585	192	18,175	56	19,008
Barium	1,765	4,197	137,005	1,100	144,067
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	732	16	29,105	33,056	62,909
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	326	204	41,405	7,200	49,135
Lead	485	17	14,968	62	15,532
Manganese	870	170	37,405	3,300	41,745
Mercury	141	0.8	93	3	238
Nickel	760	363	25,605	13,000	39,728
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	850	0	57,205	0	58,055
Zinc	1,155	550	36,305	0	38,010
Hydrochloric Acid Aerosol	2,030,000	(b)	(b)	(b)	2,030,000
Hydrogen Fluoride	137,000	(b)	(b)	(b)	137,000
Sulfuric Acid Aerosol	236,000	(b)	(b)	(b)	236,000
Ammonia	907	250	N/A	N/A	1,157
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.0	0	0	0	0
PACs	1.0	0	0	0	1
Dioxins (grams)	0.3	0	0	0	0
Dioxins (ounces)	0.011	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	2,411,577	5,960	397,271	57,777	2,872,584

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.

Cardinal Plant: Toxics Release Inventory for 2012

Plant: Cardinal, Brilliant, Ohio
Contact: Bernie Lombard Telephone (740) 598-6514
2012 Generation 7,372,305 megawatthours
2012 Coal Burn 5,928,096,000 pounds

Cardinal Plant Estimated Releases for 2012 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	198	2,800	47,505	900	51,403
Barium	711	1	431,005	18,000	449,717
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	539	130	87,405	110,902	198,976
Cobalt	87	170	36,405	0	36,662
Copper	242	3,901	108,005	24,000	136,148
Lead	184	0	42,929	915	44,029
Manganese	579	2	117,005	11,000	128,586
Mercury	202	0.0	573	37	812
Nickel	624	503	78,005	43,000	122,132
Selenium	2,005	1,900	13,275	180	17,360
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	433	0	169,005	0	169,438
Zinc	923	9	107,105	0	108,037
Hydrochloric Acid Aerosol	390,000	(b)	(b)	(b)	390,000
Hydrogen Fluoride	40,100	(b)	(b)	(b)	(a)
Sulfuric Acid Aerosol	401,000	(b)	(b)	(b)	401,000
Ammonia	2,730	1,800	N/A	N/A	4,530
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	840,560	11,216	1,238,222	208,934	2,298,932

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.

Clinch River Plant: Toxics Release Inventory for 2012

Plant: Clinch River, Cleveland, Virginia

Contact: Karen Gilmer Telephone (276) 889-7314

2012 Generation 805,094 megawatthours

2012 Coal Burn 779,252,000 pounds

Clinch River Plant Estimated Releases for 2012 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	193	212	48,905	630	49,940
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	57	0	5,311	31	5,399
Manganese	(a)	(a)	(a)	(a)	(a)
Mercury	19	0	53	1	73
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	136	0	20,305	0	20,441
Zinc	(a)	(a)	(a)	(a)	0
Hydrochloric Acid Aerosol	747,000	(b)	(b)	(b)	747,000
Hydrogen Fluoride	53,800	(b)	(b)	(b)	53,800
Sulfuric Acid Aerosol	42,700	(b)	(b)	(b)	42,700
Ammonia	326	1,814	N/A	N/A	2,140
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.0	0	0	0	0
PACs	0.4	0	0	0	0
Dioxins (grams)	0.1	0	0	0	0
Dioxins (ounces)	0.004	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	844,231	2,026	74,574	663	921,494

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.

Conesville Plant: Toxics Release Inventory for 2012

Plant: Conesville, Conesville, Ohio
Contact: Rex Green Telephone (740) 829-4065
2012 Generation 5,789,044 megawatthours
2012 Coal Burn 5,415,834,000 pounds

Conesville Plant Estimated Releases for 2012 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	371	619	45,019	300	46,309
Barium	690	35	341,305	5,903	347,933
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	4,300	13	67,235	110,302	181,850
Cobalt	399	79	29,115	0	29,593
Copper	352	5,907	93,275	25,000	124,534
Lead	314	3	36,778	312	37,406
Manganese	1,037	1,100	102,435	11,000	115,572
Mercury	212	6	289	12	519
Nickel	3,040	848	59,275	45,000	108,163
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	529	0	139,495	0	140,024
Zinc	1,285	707	91,185	0	93,177
Hydrochloric Acid Aerosol	183,000	(b)	(b)	(b)	183,000
Hydrogen Fluoride	37,500	(b)	(b)	(b)	37,500
Sulfuric Acid Aerosol	461,000	(b)	(b)	(b)	461,000
Ammonia	881	100	N/A	N/A	981
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	2.4	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	694,913	9,416	1,005,406	197,828	1,907,563

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.

Flint Creek Plant: Toxics Release Inventory for 2012

Plant: Flint Creek, Gentry, Arkansas
Contact: Scott Carney Telephone (479) 736-3526
2012 Generation 3,791,093 megawatthours
2012 Coal Burn 4,621,546,000 pounds

Flint Creek Plant Estimated Releases for 2012 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	2,725	8,100	680,005	120	690,950
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	201	2,200	28,305	2,200	32,906
Lead	129	6	7,759	9	7,903
Manganese	497	220	64,005	1,000	65,722
Mercury	224	0	45	0.2	269
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	252	0	39,005	0	39,257
Zinc	738	250	26,605	0	27,593
Hydrochloric Acid Aerosol	20,000	(b)	(b)	(b)	20,000
Hydrogen Fluoride	69,700	(b)	(b)	(b)	69,700
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	94,468	10,776	845,729	3,329	954,302

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.

Gavin Plant: Toxics Release Inventory for 2012

Plant: Gavin, Chesire, Ohio

Contact: Doug Workman Telephone (740) 925-3135

2012 Generation 17,220,105 megawatthours

2012 Coal Burn 14,393,916,000 pounds

Gavin Plant Estimated Releases for 2012 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	609	54	117,805	180	118,648
Barium	956	2,418	883,005	3,501	889,880
Beryllium	30	14	14,205	0	14,249
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	1,129	146	188,005	65,180	254,460
Cobalt	489	107	75,905	0	76,501
Copper	975	632	245,005	14,000	260,612
Lead	566	27	96,005	185	96,783
Manganese	1,330	0	294,005	6,500	301,835
Mercury	224	0	1,559	7	1,791
Nickel	1,320	561	163,005	26,000	190,886
Selenium	4,735	14	34,985	35	39,769
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	42	36	32,605	0	32,683
Vanadium	954	0	368,005	0	368,959
Zinc	2,765	543	242,005	0	245,313
Hydrochloric Acid Aerosol	247,000	(b)	(b)	(b)	247,000
Hydrogen Fluoride	58,000	(b)	(b)	(b)	58,000
Sulfuric Acid Aerosol	970,000	(b)	(b)	(b)	970,000
Ammonia	6,010	0	N/A	N/A	6,010
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.3	0	0	0	0
PACs	6.4	0	0	0	6
Dioxins (grams)	2.0	0	0	0	2
Dioxins (ounces)	0.071	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	1,297,141	4,553	2,756,104	115,588	4,173,386

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.

Glen Lyn Plant: Toxics Release Inventory for 2012

Plant: Glen Lyn, Glen Lyn, Virginia
Contact: Henry Parker Telephone (540) 726-1139
2012 Generation 79,741 megawatthours
2012 Coal Burn 79,956,000 pounds

Glen Lyn Plant Estimated Releases for 2012 (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	9	0	23	527	559
Manganese	(a)	(a)	(a)	(a)	(a)
Mercury	(a)	(a)	(a)	(a)	(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	(a)	(a)	(a)	(a)	(a)
Zinc	(a)	(a)	(a)	(a)	(a)
Hydrochloric Acid Aerosol	71,000	(b)	(b)	(b)	71,000
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	0.0	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	71,009	0	23	527	71,559

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.

Kammer/Mitchell Plant: Toxics Release Inventory for 2012

Plant: Kammer/Mitchell, Moundsville, West Virginia

Contact: Jeff Palmer Telephone (304) 843-6051

2012 Generation

9,329,215 megawatthours

2012 Coal Burn

7,799,138,000 pounds

Kammer/Mitchell Plant Estimated Releases for 2012 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	122	2	65,005	172	65,301
Barium	127	2,450	450,005	3,300	455,882
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	485	7	93,005	91,173	184,670
Cobalt	315	52	38,005	0	38,372
Copper	233	3,400	130,005	20,000	153,638
Lead	366	13	51,973	200	52,552
Manganese	536	1,700	120,005	9,100	131,341
Mercury	237	0	619	7	863
Nickel	757	1,690	79,005	36,000	117,452
Selenium	4,595	481	16,005	33	21,114
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	304	0	180,005	0	180,309
Zinc	900	870	120,005	0	121,775
Hydrochloric Acid Aerosol	1,150,000	(b)	(b)	(b)	1,150,000
Hydrogen Fluoride	128,000	(b)	(b)	(b)	128,000
Sulfuric Acid Aerosol	482,000	(b)	(b)	(b)	482,000
Ammonia	2,770	2,800	N/A	N/A	5,570
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	3.6	0	0	0	4
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	1,771,751	13,465	1,343,642	159,985	3,288,843

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 2012

Plant: Kanawha River, Glasgow, West Virginia

Contact: James Simms Telephone (304) 353-4751

2012 Generation 999,296 megawatthours

2012 Coal Burn 937,780,000 pounds

Kanawha River Plant Estimated Releases for 2012 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	36	680	5	48,840	49,561
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)	0
Lead	23	17	0	6,044	6,085
Manganese	(a)	(a)	(a)	(a)	(a)
Mercury	51	0	0	21	(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	45	0	5	20,000	20,050
Zinc	(a)	(a)	(a)	(a)	(a)
Hydrochloric Acid Aerosol	843,000	(b)	(b)	(b)	843,000
Hydrogen Fluoride	57,500	(b)	(b)	(b)	57,500
Sulfuric Acid Aerosol	63,400	(b)	(b)	(b)	63,400
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	0.4	0	0	0	0
Dioxins (grams)	0.1	0	0	0	0
Dioxins (ounces)	0.004	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	964,055	697	10	74,905	1,039,668

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.

Mountaineer Plant: Toxics Release Inventory for 2012

Plant: Mountaineer, New Haven, West Virginia
Contact: Randy Brown Telephone (304) 882-4042
2012 Generation 8,292,574 megawatthours
2012 Coal Burn 6,790,582,000 pounds

Mountaineer Plant Estimated Releases for 2012 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	89	25	55,625	85	55,824
Barium	86	650	415,705	1,702	418,143
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	430	0	87,025	40,085	127,540
Cobalt	51	0	34,495	0	34,546
Copper	179	19	114,105	8,700	123,003
Lead	85	0	45,811	89	45,985
Manganese	220	0	179,205	4,000	183,425
Mercury	30	0	746	4	780
Nickel	361	42	75,605	16,000	92,008
Selenium	2,275	55	16,676	17	19,023
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	205	0	170,605	0	170,810
Zinc	703	243	120,735	0	121,681
Hydrochloric Acid Aerosol	18,000	(b)	(b)	(b)	18,000
Hydrogen Fluoride	17,000	(b)	(b)	(b)	17,000
Sulfuric Acid Aerosol	305,000	(b)	(b)	(b)	305,000
Ammonia	3,050	0	N/A	N/A	3,050
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)	1.0	0	0	0	1
Dioxins (ounces)	0.035	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	347,767	1,034	1,316,338	70,682	1,735,821

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.

Muskingum River Plant: Toxics Release Inventory for 2012

Plant: Muskingum River, Waterford, Ohio
Contact: Jim Ludwig Telephone (740) 984-3468
2012 Generation 1,789,615 megawatthours
2012 Coal Burn 1,575,644,000 pounds

Muskingum River Plant Estimated Releases for 2012 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	130	270	13,005	98	13,503
Barium	282	1,000	73,005	2,000	76,287
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	152	180	15,005	6,998	22,335
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	114	3,400	20,005	1,500	25,019
Lead	111	0	9,850	100	10,061
Manganese	189	82	19,005	690	19,966
Mercury	138	0	43	4	185
Nickel	(a)	(a)	(a)	2,800	(a)
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	217	0	31,005	0	31,222
Zinc	411	170	22,005	0	22,586
Hydrochloric Acid Aerosol	1,150,000	(b)	(b)	(b)	1,150,000
Hydrogen Fluoride	98,000	(b)	(b)	(b)	98,000
Sulfuric Acid Aerosol	262,000	(b)	(b)	(b)	262,000
Ammonia	516	95	N/A	N/A	611
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.0	0	0	0	0
PACs	0.7	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	1,512,261	5,197	202,928	14,190	1,734,576

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.

Northeastern Plant: Toxics Release Inventory for 2012

Plant: Northeastern, Oologah, Oklahoma
Contact: Sammie Miller Telephone (918) 581-0063
2012 Generation 7,268,686 megawatthours
2012 Coal Burn 7,145,650,000 pounds

Northeastern Plant Estimated Releases for 2012 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	2,215	1,800	200,005	2,008	206,028
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	494	43	4,105	21,090	25,732
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	246	99	6,505	4,600	11,450
Lead	132	37	806	88	1,063
Manganese	783	850	22,005	2,100	25,738
Mercury	385	0	1	4	390
Nickel	586	37	5,805	8,300	14,728
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	228	0	10,005	0	10,233
Zinc	852	110	4,505	0	5,467
Hydrochloric Acid Aerosol	36,000	(b)	(b)	(b)	36,000
Hydrogen Fluoride	107,000	(b)	(b)	(b)	107,000
Sulfuric Acid Aerosol	12,200	(b)	(b)	(b)	12,200
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	2.3	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	161,123	2,976	253,742	38,190	456,032

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.

Oklaunion Plant: Toxics Release Inventory for 2012

Plant: Oklaunion, Vernon, Texas
Contact: Patrick Hunter Telephone (940) 886-2735
2012 Generation 3,098,547 megawatthours
2012 Coal Burn 3,896,610,000 pounds

Oklaunion Plant Estimated Releases for 2012 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	477	0	160,005	310	160,792
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	90	0	3,605	6,000	9,695
Lead	45	0	795	21	861
Manganese	432	0	21,005	2,700	24,137
Mercury	171	0	11	1	183
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	102	0	9,205	0	9,307
Zinc	341	0	4,405	0	4,746
Hydrochloric Acid Aerosol	31,990	(b)	(b)	(b)	31,990
Hydrogen Fluoride	17,000	(b)	(b)	(b)	17,000
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	0.0	0	0	0	0
PACs	1.2	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	50,649	0	199,031	9,031	258,711

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.

Picway Plant: Toxics Release Inventory for 2012

Plant: Picway, Lockbourne, Ohio

Contact: Rex Green Telephone (740) 829-4065

2012 Generation 3,957 megawatthours

2012 Coal Burn 4,762,000 pounds

Picway Plant Estimated Releases for 2012 (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	(a)	(a)	(a)	(a)	(a)
Manganese	(a)	(a)	(a)	(a)	(a)
Mercury	(a)	(a)	(a)	(a)	(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	(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	(a)	(b)	(b)	(b)	(a)
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	(a)	0	0	0	(a)
PACs	(a)	0	0	0	(a)
Dioxins (grams)	(a)	0	0	0	(a)
Dioxins (ounces)	(a)	0	0	0	(a)
Dioxins (ounces TEQ) (c)	0	0	0	0	(a)
Totals	0	0	0	0	0

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.

Pirkey Plant: Toxics Release Inventory for 2012

Plant: Pirkey, Hallsville, Texas

Contact: Samantha McDonald Telephone (903) 927-5853

2012 Generation 4,323,455 megawatthours

2012 Coal Burn 7,089,642,000 pounds

Pirkey Plant Estimated Releases for 2012 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	41	1	18,805	5	18,851
Barium	403	20	920,005	96	920,524
Beryllium	11	0	21,405	0	21,416
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	428	0	66,005	67,007	133,440
Cobalt	34	0	24,705	0	24,739
Copper	133	0	66,005	15,000	81,138
Lead	87	1	47,222	24	47,334
Manganese	564	0	472,005	6,700	479,269
Mercury	641	0	787	0.3	1,428
Nickel	524	1	52,205	27,000	79,730
Selenium	2,845	2	21,185	1	24,032
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	15	0	40,305	0	40,320
Vanadium	67	0	144,005	0	144,072
Zinc	296	1	59,805	0	60,102
Hydrochloric Acid Aerosol	15,000	(b)	(b)	(b)	15,000
Hydrogen Fluoride	69,700	(b)	(b)	(b)	69,700
Sulfuric Acid Aerosol	41,100	(b)	(b)	(b)	41,100
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	1.8	0	0	0	1.8
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	131,891	24	1,954,449	115,833	2,202,197

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.

Rockport Plant: Toxics Release Inventory for 2012

Plant: Rockport, Rockport, Indiana
Contact: John LaGrange Telephone (812) 649-2050
2012 Generation 18,779,569 megawatthours
2012 Coal Burn 20,520,570,000 pounds

Rockport Plant Estimated Releases for 2012 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	130	0	33,945	0	34,075
Arsenic	498	172	52,306	90	53,066
Barium	7,065	11,036	2,633,005	1,800	2,652,906
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	1,199	101	107,205	25,090	133,595
Cobalt	264	28	43,485	0	43,777
Copper	871	710	178,045	5,500	185,126
Lead	619	26	57,583	97	58,325
Manganese	2,110	1,772	291,505	2,500	297,887
Mercury	238	0	829	4	1,071
Nickel	1,600	180	107,805	10,000	119,585
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	45	0	29,305	0	29,350
Vanadium	1,135	0	248,705	0	249,840
Zinc	3,265	160	170,015	0	173,440
Hydrochloric Acid Aerosol	1,980,000	(b)	(b)	(b)	1,980,000
Hydrogen Fluoride	381,000	(b)	(b)	(b)	381,000
Sulfuric Acid Aerosol	139,000	(b)	(b)	(b)	139,000
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.3	0	0	0	0
PACs	6.9	0	0	0	6.9
Dioxins (grams)	2.2	0	0	0	2
Dioxins (ounces)	0.078	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	2,519,046	14,185	3,953,738	45,081	6,532,050

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.

Sporn Plant: Toxics Release Inventory for 2012

Plant: Sporn, New Haven, West Virginia
Contact: David Thompson Telephone (304) 882-1683
2012 Generation 990,095 megawatthours
2012 Coal Burn 900,498,000 pounds

Sporn Plant Estimated Releases for 2012 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	52	61	7,328	33	7,474
Barium	84	590	48,105	662	49,441
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	315	0	10,105	28,033	38,453
Cobalt	270	0	4,085	0	4,355
Copper	61	4,000	12,445	6,100	22,606
Lead	53	0	5,867	37	5,957
Manganese	330	360	12,695	2,800	16,185
Mercury	53	0	37	1	91
Nickel	347	460	8,365	11,000	20,172
Selenium	1,375	1	1,112	7	2,495
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	89	0	19,805	0	19,894
Zinc	204	99	13,305	0	13,608
Hydrochloric Acid Aerosol	938,000	(b)	(b)	(b)	938,000
Hydrogen Fluoride	54,900	(b)	(b)	(b)	54,900
Sulfuric Acid Aerosol	55,700	(b)	(b)	(b)	55,700
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	0.4	0	0	0	0.4
Dioxins (grams)	0.1	0	0	0	0
Dioxins (ounces)	0.004	0	0	0	0.004
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	1,051,833	5,571	143,254	48,673	1,249,331

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.

Tanners Creek: Toxics Release Inventory for 2012

Plant: Tanners Creek, Lawrenceburg, Indiana

Contact: Sharon McFarland Telephone (812) 532-3124

2012 Generation

2,817,118 megawatthours

2012 Coal Burn

3,000,620,000 pounds

Tanners Creek Plant Estimated Releases for 2012 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	71	1,600	42,905	22	44,598
Barium	369	8,600	1,040,005	430	1,049,404
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	359	46	65,005	7,622	73,032
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	110	3,700	95,005	1,700	100,515
Lead	70	39	43,822	24	43,955
Manganese	357	0	127,005	760	128,122
Mercury	67	0	584	1	652
Nickel	484	520	55,005	3,000	59,009
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	140	0	138,005	0	138,145
Zinc	413	410	107,005	0	107,828
Hydrochloric Acid Aerosol	808,000	(b)	(b)	(b)	808,000
Hydrogen Fluoride	89,600	(b)	(b)	(b)	89,600
Sulfuric Acid Aerosol	54,000	(b)	(b)	(b)	54,000
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	1.1	0	0	0	1.1
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	954,041	14,915	1,714,346	13,559	2,696,861

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.

John W Turk Plant: Toxics Release Inventory for 2012

Plant: John W Turk, Fulton, Arkansas
Contact: Dustin Williams Telephone: (903) 831-1514
2012 Coal Burn 157,052,000 pounds

Picway Plant Estimated Releases for 2012 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	7	43	25,000	0	25,050
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	1	0.2	288	0	289
Manganese	(a)	(a)	(a)	(a)	(a)
Mercury	(a)	(a)	(a)	(a)	(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	(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	(a)	(b)	(b)	(b)	(a)
Ammonia	517	34	N/A	N/A	551
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.0	0	0	0	0
PACs	0.1	0	0	0	0.1
Dioxins (grams)	(a)	0	0	0	(a)
Dioxins (ounces)	(a)	0	0	0	(a)
Dioxins (ounces TEQ) (c)	0	0	0	0	(a)
Totals	525	77	25,288	0	25,890

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.

Welsh: Toxics Release Inventory for 2012

Plant: Welsh, Pittsburg, Texas

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2012 Generation 10,281,584 megawatthours

2012 Coal Burn 12,752,566,000 pounds

Welsh Plant Estimated Releases for 2012 (Pounds)					
Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	78	100	2,605	0	2,783
Arsenic	119	100	695	75	989
Barium	4,055	14,000	460,005	1,502	479,562
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	833	180	10,005	27,080	38,098
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	423	6,200	10,005	5,900	22,528
Lead	218	103	2,138	85	2,544
Manganese	1,270	570	51,005	2,700	55,545
Mercury	490	1	0	3	494
Nickel	1,018	800	13,005	11,000	25,823
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	485	0	26,005	0	26,490
Zinc	1,605	290	11,005	0	12,900
Hydrochloric Acid Aerosol	56,000	(b)	(b)	(b)	56,000
Hydrogen Fluoride	141,000	(b)	(b)	(b)	141,000
Sulfuric Acid Aerosol	19,200	(b)	(b)	(b)	19,200
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	4.2	0	0	0	4.2
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	226,798	22,344	586,473	48,345	883,960

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.