TV FER/EIS Emissions Report (202404) for 2010
City of Hamilton Department of Public Utilities
1409040243
April 15, 2011

2010 Emissions Summary Report : 202404

Oct 11 2011, 15:18:26

- Report Data

Report Category: TV

Submitted Date: 04/15/2011

Approved Date 04/18/2011

Reporting Year: 2010

Reporting State Approved

- Reports Included

FER: X ES: EIS: X

- Facility Emissions

Pollutant	Code	$	Fugitive Amount	Stack Amount	Total	Units
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		0.	1.43185	1.43185	TONs
SO2 - Sulfur Dioxide	SO2	X	0.	1,125.22	1,125.22	TONs
NOx - Nitrogen Oxides	NOX	X	0.	361.227	361.227	TONs
Organic Compounds	OC	X	0.	3.27775	3.27775	TONs
Pb - Lead	7439921	X	0.	0.00300367	0.00300367	TONs
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	2.4	21.4378	23.8378	TONs
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.84	15.8478	16.6878	TONs
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.123	7.89776	8.02076	TONs
VOC - Volatile Organic Compounds	VOC		0.	3.13887	3.13887	TONs
Ammonia	NH3		0.	0.1108	0.1108	TONs
CO - Carbon Monoxide	CO		0.	27.181	27.181	TONs
Total of Chargable Pollutants					1,513.57	TONS

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations. The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

Pollutant	Code	Fugitive Amount	Stack Amount	Total	Units
Acenaphthene	83329	0.	2.2725E-08	2.2725E-08	TONs
Acenaphthylene	208968	0.	2.2725E-08	2.2725E-08	TONs

Acetaldehyde	75070	0.	5.4514E-04	5.4514E-04	TONs
Acrolein	107028	0.	4.69499E-04	4.69499E-04	TONs
Anthracene	120127	0.	3.03E-08	3.03E-08	TONs
Arsenic	7440382	0.	0.00366877	0.00366877	TONs
Benz[A]Anthracene	56553	0.	2.2725E-08	2.2725E-08	TONs
Benzene	71432	0.	5.3025E-05	5.3025E-05	TONs
Benzo[A]Pyrene	50328	0.	1.515E-08	1.515E-08	TONs
Benzo[B]Fluoranthene	205992	0.	2.2725E-08	2.2725E-08	TONs
Benzo[G,H,I,]Perylene	191242	0.	1.515E-08	1.515E-08	TONs
Benzo[K]Fluoranthene	207089	0.	2.2725E-08	2.2725E-08	TONs
Beryllium	7440417	0.	4.34331E-04	4.34331E-04	TONs
Cadmium	7440439	0.	2.46128E-04	2.46128E-04	TONs
Chromium	7440473	0.	8.68126E-04	8.68126E-04	TONs
Chrysene	218019	0.	2.2725E-08	2.2725E-08	TONs
Cobalt	7440484	0.	6.16762E-07	6.16762E-07	TONs
Dibenzo[A,H]Anthracene	53703	0.	1.515E-08	1.515E-08	TONs
Dimethylbenz[A]Anthracene, 7,12-	57976	0.	2.02E-07	2.02E-07	TONs
Fluoranthene	206440	0.	7.575E-08	7.575E-08	TONs
Fluorene	86737	0.	7.07E-08	7.07E-08	TONs
Formaldehyde	50000	0.	0.00189375	0.00189375	TONs
Hexane, N-	110543	0.	0.04545	0.04545	TONs
Hydrochloric Acid (Hydrogen Chloride)	7647010	0.	60.1482	60.1482	TONs
Hydrogen Fluoride (Hydrofluoric Acid)	7664393	0.	7.51853	7.51853	TONs
Indeno[1,2,3-C,D]Pyrene	193395	0.	2.2725E-08	2.2725E-08	TONs
MN - Manganese	7439965	0.	0.00738028	0.00738028	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	0.0200732	0.0200732	TONs
Methylcholanthrene, 3-	56495	0.	2.2725E-08	2.2725E-08	TONs
Methylnaphthalene, 2-	91576	0.	6.06E-07	6.06E-07	TONs
Naphthalene	91203	0.	1.54025E-05	1.54025E-05	TONs
Nickel	7440020	0.	7.1242E-04	7.1242E-04	TONs
Phenanthrene	85018	0.	4.2925E-07	4.2925E-07	TONs

Polycyclic Organic Matter	246	0.	0.00287475	0.00287475	TONs
Pyrene	129000	0.	1.2625E-07	1.2625E-07	TONs
Selenium	7782492	0.	0.00200209	0.00200209	TONs
Toluene	108883	0.	8.585E-05	8.585E-05	TONs

- **Attachments**

Description	Type	Public Document	Trade Seceret Document	Trade secret Justification

- **Notes**

User Name	Date	Note

Emission Units Without Detailed Emissions

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Emission Unit	Why Excluded	Company Equipment ID
B004	Less Than Reporting Requirement	Gas Turbine #2
B010	Less Than Reporting Requirement	Heat Recovery Boiler
F001	Less Than Reporting Requirement	Roadways and Parking Lots
F004	Less Than Reporting Requirement	Ash Handling System
T001	Less Than Reporting Requirement	South Fuel Oil Tank
Z001	Less Than Reporting Requirement	60 kW Generator
Z004	Less Than Reporting Requirement	TG Lube Oil System
Z005	Less Than Reporting Requirement	Misc. Chemical Use (Parts Washer)
Z006	Less Than Reporting Requirement	Caustic Soda Tank
Z008	Less Than Reporting Requirement	Bead Blaster
Z009	Less Than Reporting Requirement	Det. Steam Cleaner
Z010	Less Than Reporting Requirement	Maintenance Welding
Z011	Less Than Reporting Requirement	Ash Storage Piles
Z012	TV Classification = Trivial	Kerosene Tank
Z013	Less Than Reporting Requirement	Lime Storage
Z014	Less Than Reporting Requirement	Lime & Byproduct Handling System

Report Pollutant Summary: Total Emissions (Tons)

Unit	SCC Id	PM-CON	SO2	NOX	OC	7439921	PM-FIL	PM10-FIL	PM25-FIL	VOC	NH3	CO
B001	**1-01-006-01**	0.0203775	0.002145	1.001	0.039325	1.7875E-06	0.0067925	0.0067925	0.0067925	0.0196625	0.01144	0.3003
B002	**1-01-006-01**	0.0208905	0.002199	1.0262	0.040315	1.8325E-06	0.0069635	0.0069635	0.0069635	0.0201575	0.011728	0.30786
B008	**1-01-006-01**	5.04564E-04	0.006639	0.	0.121715	4.426E-08	0.021	0.021	0.021	0.0608575	0.035408	0.92946
B008	**1-01-002-02**	0.77	509.61	163.5	1.13	0.002	14.96	9.89	4.38	1.13	0.01	9.44
B009	**1-01-002-12**	0.62	615.6	195.7	1.87	0.001	6.43	5.91	3.47	1.87	0.02	15.62
B009	**1-01-006-01**	7.9173E-05	0.	0.	0.076395	6.945E-09	0.013	0.013	0.013	0.0381975	0.022224	0.58338
F002	**3-05-010-10**	0.	0.	0.	0.	0.	0.05	0.02	0.003	0.	0.	0.
F002	**3-05-010-11**	0.	0.	0.	0.	0.	0.18	0.06	0.01	0.	0.	0.
F002	**3-05-010-08**	0.	0.	0.	0.	0.	0.96	0.34	0.05	0.	0.	0.
F003	**3-05-010-43**	0.	0.	0.	0.	0.	1.21	0.42	0.06	0.	0.	0.
Total		1.43185	1,125.22	361.227	3.27775	0.00300367	23.8378	16.6878	8.02076	3.13887	0.1108	27.181

Emission Unit Summary: B001

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Emissions Unit ID: B001

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		0.	0.0203775	0.0203775	TONs	
SO2 - Sulfur Dioxide	SO2	X	0.	0.002145	0.002145	TONs	
NOx - Nitrogen Oxides	NOX	X	0.	1.001	1.001	TONs	
Organic Compounds	OC	X	0.	0.039325	0.039325	TONs	
Pb - Lead	7439921	X	0.	1.7875E-06	1.7875E-06	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.	0.0067925	0.0067925	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.	0.0067925	0.0067925	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.	0.0067925	0.0067925	TONs	
VOC - Volatile Organic Compounds	VOC		0.	0.0196625	0.0196625	TONs	
Ammonia	NH3		0.	0.01144	0.01144	TONs	
CO - Carbon Monoxide	CO		0.	0.3003	0.3003	TONs	
Total of Chargable Pollutants					1.04926	TONS	

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations. The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

Pollutant	Code	Fugitive Amount	Stack Amount	Total	Units
Acenaphthene	83329	0.	3.2175E-09	3.2175E-09	TONs
Acenaphthylene	208968	0.	3.2175E-09	3.2175E-09	TONs
Acetaldehyde	75070	0.	7.71832E-05	7.71832E-05	TONs
Acrolein	107028	0.	6.64736E-05	6.64736E-05	TONs
Anthracene	120127	0.	4.29E-09	4.29E-09	TONs
Arsenic	7440382	0.	7.15E-07	7.15E-07	TONs

Benz[A]Anthracene	56553	0.	3.2175E-09	3.2175E-09	TONs
Benzene	71432	0.	7.5075E-06	7.5075E-06	TONs
Benzo[A]Pyrene	50328	0.	2.145E-09	2.145E-09	TONs
Benzo[B]Fluoranthene	205992	0.	3.2175E-09	3.2175E-09	TONs
Benzo[G,H,I,]Perylene	191242	0.	2.145E-09	2.145E-09	TONs
Benzo[K]Fluoranthene	207089	0.	3.2175E-09	3.2175E-09	TONs
Beryllium	7440417	0.	2.145E-08	2.145E-08	TONs
Cadmium	7440439	0.	3.9325E-06	3.9325E-06	TONs
Chromium	7440473	0.	5.005E-06	5.005E-06	TONs
Chrysene	218019	0.	3.2175E-09	3.2175E-09	TONs
Cobalt	7440484	0.	3.003E-07	3.003E-07	TONs
Dibenzo[A,H]Anthracene	53703	0.	2.145E-09	2.145E-09	TONs
Dimethylbenz[A]Anthracene, 7,12-	57976	0.	2.86E-08	2.86E-08	TONs
Fluoranthene	206440	0.	1.0725E-08	1.0725E-08	TONs
Fluorene	86737	0.	1.001E-08	1.001E-08	TONs
Formaldehyde	50000	0.	2.68125E-04	2.68125E-04	TONs
Hexane, N-	110543	0.	0.006435	0.006435	TONs
Indeno[1,2,3-C,D]Pyrene	193395	0.	3.2175E-09	3.2175E-09	TONs
MN - Manganese	7439965	0.	1.3585E-06	1.3585E-06	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	9.295E-07	9.295E-07	TONs
Methylcholanthrene, 3-	56495	0.	3.2175E-09	3.2175E-09	TONs
Methylnaphthalene, 2-	91576	0.	8.58E-08	8.58E-08	TONs
Naphthalene	91203	0.	2.18075E-06	2.18075E-06	TONs
Nickel	7440020	0.	7.5075E-06	7.5075E-06	TONs
Phenanthrene	85018	0.	6.0775E-08	6.0775E-08	TONs
Polycyclic Organic Matter	246	0.	2.39674E-06	2.39674E-06	TONs
Pyrene	129000	0.	1.7875E-08	1.7875E-08	TONs
Selenium	7782492	0.	4.29E-08	4.29E-08	TONs
Toluene	108883	0.	1.2155E-05	1.2155E-05	TONs

- **Processes**

- Process & Emissions Detail

Name: B001-NG

Source Classification Code (SCC): 1-01-006-01

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 7

Weeks Per Year: 52

Hours Per Year: 118

Winter (Dec - Feb)%: 0

Spring (March-May)%: 52

Summer (June-Aug)%: 0

Fall (Sept-Nov)%: 48

Material	Material Action	Throughput	X Units
Natural Gas	Burned	7.15	MILLION CUBIC FEET

Variable	Amount	Meaning
HCg	1033	Gas Heat Content (Btu/Cubic Feet)

- Process Emissions

Pollutant	Code	$	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		factor:OEPA (auto calculate)	118	5.7	0.	0.0203775	0.0203775	TONs	
SO2 - Sulfur Dioxide	SO2	X	factor:OEPA (auto calculate)	118	0.6	0.	0.002145	0.002145	TONs	
NOx - Nitrogen Oxides	NOX	X	factor:OEPA (auto calculate)	118	280	0.	1.001	1.001	TONs	
Organic Compounds	OC	X	factor:OEPA (auto	118	11	0.	0.039325	0.039325	TONs	

			calculate)							
Pb - Lead	7439921	X	factor:OEPA (auto calculate)	118	5E-04	0.	1.7875E-06	1.7875E-06	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	factor:OEPA (auto calculate)	118	1.9	0.	0.0067925	0.0067925	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		factor:OEPA (auto calculate)	118	1.9	0.	0.0067925	0.0067925	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		factor:OEPA (auto calculate)	118	1.9	0.	0.0067925	0.0067925	TONs	
VOC - Volatile Organic Compounds	VOC		factor:OEPA (auto calculate)	118	5.5	0.	0.0196625	0.0196625	TONs	
Ammonia	NH3		factor:OEPA (auto calculate)	118	3.2	0.	0.01144	0.01144	TONs	
CO - Carbon Monoxide	CO		factor:OEPA (auto calculate)	118	84	0.	0.3003	0.3003	TONs	
Total of Chargable Pollutants								1.04926	TONS	

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations. The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

Process Emissions

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Acenaphthene	83329	factor:OEPA (auto calculate)	118	9E-07	0.	3.2175E-09	3.2175E-09	TONs	

Acenaphthylene	208968	factor:OEPA (auto calculate)	118	9E-07	0.	3.2175E-09	3.2175E-09	TONs	
Acetaldehyde	75070	factor:OEPA (auto calculate)	118	0.0215897	0.	7.71832E-05	7.71832E-05	TONs	
Acrolein	107028	factor:OEPA (auto calculate)	118	0.018594	0.	6.64736E-05	6.64736E-05	TONs	
Anthracene	120127	factor:OEPA (auto calculate)	118	1.2E-06	0.	4.29E-09	4.29E-09	TONs	
Arsenic	7440382	factor:OEPA (auto calculate)	118	2E-04	0.	7.15E-07	7.15E-07	TONs	
Benz[A]Anthracene	56553	factor:OEPA (auto calculate)	118	9E-07	0.	3.2175E-09	3.2175E-09	TONs	
Benzene	71432	factor:OEPA (auto calculate)	118	0.0021	0.	7.5075E-06	7.5075E-06	TONs	
Benzo[A]Pyrene	50328	factor:OEPA (auto calculate)	118	6E-07	0.	2.145E-09	2.145E-09	TONs	
Benzo[B]Fluoranthene	205992	factor:OEPA (auto calculate)	118	9E-07	0.	3.2175E-09	3.2175E-09	TONs	
Benzo[G,H,I,]Perylene	191242	factor:OEPA (auto calculate)	118	6E-07	0.	2.145E-09	2.145E-09	TONs	
Benzo[K]Fluoranthene	207089	factor:OEPA (auto calculate)	118	9E-07	0.	3.2175E-09	3.2175E-09	TONs	
Beryllium	7440417	factor:OEPA (auto calculate)	118	6E-06	0.	2.145E-08	2.145E-08	TONs	
Cadmium	7440439	factor:OEPA (auto calculate)	118	0.0011	0.	3.9325E-06	3.9325E-06	TONs	
Chromium	7440473	factor:OEPA (auto calculate)	118	0.0014	0.	5.005E-06	5.005E-06	TONs	

Chrysene	218019	factor:OEPA (auto calculate)	118	9E-07	0.	3.2175E-09	3.2175E-09	TONs	
Cobalt	7440484	factor:OEPA (auto calculate)	118	8.4E-05	0.	3.003E-07	3.003E-07	TONs	
Dibenzo[A,H]Anthracene	53703	factor:OEPA (auto calculate)	118	6E-07	0.	2.145E-09	2.145E-09	TONs	
Dimethylbenz[A]Anthracene, 7,12-	57976	factor:OEPA (auto calculate)	118	8E-06	0.	2.86E-08	2.86E-08	TONs	
Fluoranthene	206440	factor:OEPA (auto calculate)	118	3E-06	0.	1.0725E-08	1.0725E-08	TONs	
Fluorene	86737	factor:OEPA (auto calculate)	118	2.8E-06	0.	1.001E-08	1.001E-08	TONs	
Formaldehyde	50000	factor:OEPA (auto calculate)	118	0.075	0.	2.68125E-04	2.68125E-04	TONs	
Hexane, N-	110543	factor:OEPA (auto calculate)	118	1.8	0.	0.006435	0.006435	TONs	
Indeno[1,2,3-C,D]Pyrene	193395	factor:OEPA (auto calculate)	118	9E-07	0.	3.2175E-09	3.2175E-09	TONs	
MN - Manganese	7439965	factor:OEPA (auto calculate)	118	3.8E-04	0.	1.3585E-06	1.3585E-06	TONs	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	factor:OEPA (auto calculate)	118	2.6E-04	0.	9.295E-07	9.295E-07	TONs	
Methylcholanthrene, 3-	56495	factor:OEPA (auto calculate)	118	9E-07	0.	3.2175E-09	3.2175E-09	TONs	
Methylnaphthalene, 2-	91576	factor:OEPA (auto calculate)	118	2.4E-05	0.	8.58E-08	8.58E-08	TONs	
Naphthalene	91203	factor:OEP	118	6.1E-04	0.	2.18075E-06	2.18075E-06	TONs	

		A (auto calculate)							
Nickel	7440020	factor:OEP A (auto calculate)	118	0.0021	0.	7.5075E-06	7.5075E-06	TONs	
Phenanthrene	85018	factor:OEP A (auto calculate)	118	1.7E-05	0.	6.0775E-08	6.0775E-08	TONs	
Polycyclic Organic Matter	246	factor:OEP A (auto calculate)	118	6.70417E -04	0.	2.39674E-06	2.39674E-06	TONs	
Pyrene	129000	factor:OEP A (auto calculate)	118	5E-06	0.	1.7875E-08	1.7875E-08	TONs	
Selenium	7782492	factor:OEP A (auto calculate)	118	1.2E-05	0.	4.29E-08	4.29E-08	TONs	
Toluene	108883	factor:OEP A (auto calculate)	118	0.0034	0.	1.2155E-05	1.2155E-05	TONs	

Emission Unit Summary: B002

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Emissions Unit ID: B002

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		0.	0.0208905	0.0208905	TONs	
SO2 - Sulfur Dioxide	SO2	X	0.	0.002199	0.002199	TONs	
NOx - Nitrogen Oxides	NOX	X	0.	1.0262	1.0262	TONs	
Organic Compounds	OC	X	0.	0.040315	0.040315	TONs	
Pb - Lead	7439921	X	0.	1.8325E-06	1.8325E-06	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.	0.0069635	0.0069635	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.	0.0069635	0.0069635	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.	0.0069635	0.0069635	TONs	
VOC - Volatile Organic Compounds	VOC		0.	0.0201575	0.0201575	TONs	
Ammonia	NH3		0.	0.011728	0.011728	TONs	
CO - Carbon Monoxide	CO		0.	0.30786	0.30786	TONs	
Total of Chargable Pollutants					1.07568	TONS	

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Pollutant	Code	Fugitive Amount	Stack Amount	Total	Units
Acenaphthene	83329	0.	3.2985E-09	3.2985E-09	TONs
Acenaphthylene	208968	0.	3.2985E-09	3.2985E-09	TONs
Acetaldehyde	75070	0.	7.91263E-05	7.91263E-05	TONs
Acrolein	107028	0.	6.8147E-05	6.8147E-05	TONs
Anthracene	120127	0.	4.398E-09	4.398E-09	TONs
Arsenic	7440382	0.	7.33E-07	7.33E-07	TONs

Benz[A]Anthracene	56553	0.	3.2985E-09	3.2985E-09	TONs
Benzene	71432	0.	7.6965E-06	7.6965E-06	TONs
Benzo[A]Pyrene	50328	0.	2.199E-09	2.199E-09	TONs
Benzo[B]Fluoranthene	205992	0.	3.2985E-09	3.2985E-09	TONs
Benzo[G,H,I,]Perylene	191242	0.	2.199E-09	2.199E-09	TONs
Benzo[K]Fluoranthene	207089	0.	3.2985E-09	3.2985E-09	TONs
Beryllium	7440417	0.	2.199E-08	2.199E-08	TONs
Cadmium	7440439	0.	4.0315E-06	4.0315E-06	TONs
Chromium	7440473	0.	5.131E-06	5.131E-06	TONs
Chrysene	218019	0.	3.2985E-09	3.2985E-09	TONs
Cobalt	7440484	0.	3.0786E-07	3.0786E-07	TONs
Dibenzo[A,H]Anthracene	53703	0.	2.199E-09	2.199E-09	TONs
Dimethylbenz[A]Anthracene, 7,12-	57976	0.	2.932E-08	2.932E-08	TONs
Fluoranthene	206440	0.	1.0995E-08	1.0995E-08	TONs
Fluorene	86737	0.	1.0262E-08	1.0262E-08	TONs
Formaldehyde	50000	0.	2.74875E-04	2.74875E-04	TONs
Hexane, N-	110543	0.	0.006597	0.006597	TONs
Indeno[1,2,3-C,D]Pyrene	193395	0.	3.2985E-09	3.2985E-09	TONs
MN - Manganese	7439965	0.	1.3927E-06	1.3927E-06	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	9.529E-07	9.529E-07	TONs
Methylcholanthrene, 3-	56495	0.	3.2985E-09	3.2985E-09	TONs
Methylnaphthalene, 2-	91576	0.	8.796E-08	8.796E-08	TONs
Naphthalene	91203	0.	2.23565E-06	2.23565E-06	TONs
Nickel	7440020	0.	7.6965E-06	7.6965E-06	TONs
Phenanthrene	85018	0.	6.2305E-08	6.2305E-08	TONs
Polycyclic Organic Matter	246	0.	2.45708E-06	2.45708E-06	TONs
Pyrene	129000	0.	1.8325E-08	1.8325E-08	TONs
Selenium	7782492	0.	4.398E-08	4.398E-08	TONs
Toluene	108883	0.	1.2461E-05	1.2461E-05	TONs

- **Processes**

- Process & Emissions Detail

Name: B002-NG

Source Classification Code (SCC): 1-01-006-01

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 7

Weeks Per Year: 52

Hours Per Year: 77

Winter (Dec - Feb)%: 0

Spring (March-May)%: 63

Summer (June-Aug)%: 0

Fall (Sept-Nov)%: 37

Material	Material Action	Throughput	X Units
Natural Gas	Burned	7.33	MILLION CUBIC FEET

Variable	Amount	Meaning
HCg	1033	Gas Heat Content (Btu/Cubic Feet)

- Process Emissions

Pollutant	Code	$	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		factor:OEPA (auto calculate)	77	5.7	0.	0.0208905	0.0208905	TONs	
SO2 - Sulfur Dioxide	SO2	X	factor:OEPA (auto calculate)	77	0.6	0.	0.002199	0.002199	TONs	
NOx - Nitrogen Oxides	NOX	X	factor:OEPA (auto calculate)	77	280	0.	1.0262	1.0262	TONs	
Organic Compounds	OC	X	factor:OEPA (auto	77	11	0.	0.040315	0.040315	TONs	

			calculate)							
Pb - Lead	7439921	X	factor:OEPA (auto calculate)	77	5E-04	0.	1.8325E-06	1.8325E-06	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	factor:OEPA (auto calculate)	77	1.9	0.	0.0069635	0.0069635	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		factor:OEPA (auto calculate)	77	1.9	0.	0.0069635	0.0069635	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		factor:OEPA (auto calculate)	77	1.9	0.	0.0069635	0.0069635	TONs	
VOC - Volatile Organic Compounds	VOC		factor:OEPA (auto calculate)	77	5.5	0.	0.0201575	0.0201575	TONs	
Ammonia	NH3		factor:OEPA (auto calculate)	77	3.2	0.	0.011728	0.011728	TONs	
CO - Carbon Monoxide	CO		factor:OEPA (auto calculate)	77	84	0.	0.30786	0.30786	TONs	
Total of Chargable Pollutants								1.07568	TONS	

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The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations. The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Acenaphthene	83329	factor:OEPA (auto calculate)	77	9E-07	0.	3.2985E-09	3.2985E-09	TONs	

Acenaphthylene	208968	factor:OEPA (auto calculate)	77	9E-07	0.	3.2985E-09	3.2985E-09	TONs	
Acetaldehyde	75070	factor:OEPA (auto calculate)	77	0.0215897	0.	7.91263E-05	7.91263E-05	TONs	
Acrolein	107028	factor:OEPA (auto calculate)	77	0.018594	0.	6.8147E-05	6.8147E-05	TONs	
Anthracene	120127	factor:OEPA (auto calculate)	77	1.2E-06	0.	4.398E-09	4.398E-09	TONs	
Arsenic	7440382	factor:OEPA (auto calculate)	77	2E-04	0.	7.33E-07	7.33E-07	TONs	
Benz[A]Anthracene	56553	factor:OEPA (auto calculate)	77	9E-07	0.	3.2985E-09	3.2985E-09	TONs	
Benzene	71432	factor:OEPA (auto calculate)	77	0.0021	0.	7.6965E-06	7.6965E-06	TONs	
Benzo[A]Pyrene	50328	factor:OEPA (auto calculate)	77	6E-07	0.	2.199E-09	2.199E-09	TONs	
Benzo[B]Fluoranthene	205992	factor:OEPA (auto calculate)	77	9E-07	0.	3.2985E-09	3.2985E-09	TONs	
Benzo[G,H,I,]Perylene	191242	factor:OEPA (auto calculate)	77	6E-07	0.	2.199E-09	2.199E-09	TONs	
Benzo[K]Fluoranthene	207089	factor:OEPA (auto calculate)	77	9E-07	0.	3.2985E-09	3.2985E-09	TONs	
Beryllium	7440417	factor:OEPA (auto calculate)	77	6E-06	0.	2.199E-08	2.199E-08	TONs	
Cadmium	7440439	factor:OEPA (auto calculate)	77	0.0011	0.	4.0315E-06	4.0315E-06	TONs	
Chromium	7440473	factor:OEPA (auto calculate)	77	0.0014	0.	5.131E-06	5.131E-06	TONs	

Chrysene	218019	factor:OEPA (auto calculate)	77	9E-07	0.	3.2985E-09	3.2985E-09	TONs	
Cobalt	7440484	factor:OEPA (auto calculate)	77	8.4E-05	0.	3.0786E-07	3.0786E-07	TONs	
Dibenzo[A,H]Anthracene	53703	factor:OEPA (auto calculate)	77	6E-07	0.	2.199E-09	2.199E-09	TONs	
Dimethylbenz[A]Anthracene, 7,12-	57976	factor:OEPA (auto calculate)	77	8E-06	0.	2.932E-08	2.932E-08	TONs	
Fluoranthene	206440	factor:OEPA (auto calculate)	77	3E-06	0.	1.0995E-08	1.0995E-08	TONs	
Fluorene	86737	factor:OEPA (auto calculate)	77	2.8E-06	0.	1.0262E-08	1.0262E-08	TONs	
Formaldehyde	50000	factor:OEPA (auto calculate)	77	0.075	0.	2.74875E-04	2.74875E-04	TONs	
Hexane, N-	110543	factor:OEPA (auto calculate)	77	1.8	0.	0.006597	0.006597	TONs	
Indeno[1,2,3-C,D]Pyrene	193395	factor:OEPA (auto calculate)	77	9E-07	0.	3.2985E-09	3.2985E-09	TONs	
MN - Manganese	7439965	factor:OEPA (auto calculate)	77	3.8E-04	0.	1.3927E-06	1.3927E-06	TONs	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	factor:OEPA (auto calculate)	77	2.6E-04	0.	9.529E-07	9.529E-07	TONs	
Methylcholanthrene, 3-	56495	factor:OEPA (auto calculate)	77	9E-07	0.	3.2985E-09	3.2985E-09	TONs	
Methylnaphthalene, 2-	91576	factor:OEPA (auto calculate)	77	2.4E-05	0.	8.796E-08	8.796E-08	TONs	
Naphthalene	91203	factor:OEP	77	6.1E-04	0.	2.23565E-06	2.23565E-06	TONs	

		A (auto calculate)							
Nickel	7440020	factor:OEP A (auto calculate)	77	0.0021	0.	7.6965E-06	7.6965E-06	TONs	
Phenanthrene	85018	factor:OEP A (auto calculate)	77	1.7E-05	0.	6.2305E-08	6.2305E-08	TONs	
Polycyclic Organic Matter	246	factor:OEP A (auto calculate)	77	6.70417E -04	0.	2.45708E-06	2.45708E-06	TONs	
Pyrene	129000	factor:OEP A (auto calculate)	77	5E-06	0.	1.8325E-08	1.8325E-08	TONs	
Selenium	7782492	factor:OEP A (auto calculate)	77	1.2E-05	0.	4.398E-08	4.398E-08	TONs	
Toluene	108883	factor:OEP A (auto calculate)	77	0.0034	0.	1.2461E-05	1.2461E-05	TONs	

Emission Unit Summary: B008

Oct 11 2011, 15:18:26

Emissions Unit ID: B008

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		0.	0.770505	0.770505	TONs	
SO2 - Sulfur Dioxide	SO2	X	0.	509.617	509.617	TONs	X
NOx - Nitrogen Oxides	NOX	X	0.	163.5	163.5	TONs	X
Organic Compounds	OC	X	0.	1.25172	1.25172	TONs	
Pb - Lead	7439921	X	0.	0.00200004	0.00200004	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.	14.981	14.981	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.	9.911	9.911	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.	4.401	4.401	TONs	
VOC - Volatile Organic Compounds	VOC		0.	1.19086	1.19086	TONs	
Ammonia	NH3		0.	0.045408	0.045408	TONs	
CO - Carbon Monoxide	CO		0.	10.3695	10.3695	TONs	
Total of Chargable Pollutants					689.351	TONS	

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations. The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

Pollutant	Code	Fugitive Amount	Stack Amount	Total	Units
Acenaphthene	83329	0.	9.9585E-09	9.9585E-09	TONs
Acenaphthylene	208968	0.	9.9585E-09	9.9585E-09	TONs
Acetaldehyde	75070	0.	2.3889E-04	2.3889E-04	TONs
Acrolein	107028	0.	2.05743E-04	2.05743E-04	TONs
Anthracene	120127	0.	1.3278E-08	1.3278E-08	TONs
Arsenic	7440382	0.	0.00260216	0.00260216	TONs

Benz[A]Anthracene	56553	0.	9.9585E-09	9.9585E-09	TONs
Benzene	71432	0.	2.32365E-05	2.32365E-05	TONs
Benzo[A]Pyrene	50328	0.	6.639E-09	6.639E-09	TONs
Benzo[B]Fluoranthene	205992	0.	9.9585E-09	9.9585E-09	TONs
Benzo[G,H,I,]Perylene	191242	0.	6.639E-09	6.639E-09	TONs
Benzo[K]Fluoranthene	207089	0.	9.9585E-09	9.9585E-09	TONs
Beryllium	7440417	0.	3.0815E-04	3.0815E-04	TONs
Cadmium	7440439	0.	1.69007E-04	1.69007E-04	TONs
Chromium	7440473	0.	6.08811E-04	6.08811E-04	TONs
Chrysene	218019	0.	9.9585E-09	9.9585E-09	TONs
Cobalt	7440484	0.	7.43568E-09	7.43568E-09	TONs
Dibenzo[A,H]Anthracene	53703	0.	6.639E-09	6.639E-09	TONs
Dimethylbenz[A]Anthracene, 7,12-	57976	0.	8.852E-08	8.852E-08	TONs
Fluoranthene	206440	0.	3.3195E-08	3.3195E-08	TONs
Fluorene	86737	0.	3.0982E-08	3.0982E-08	TONs
Formaldehyde	50000	0.	8.29875E-04	8.29875E-04	TONs
Hexane, N-	110543	0.	0.019917	0.019917	TONs
Hydrochloric Acid (Hydrogen Chloride)	7647010	0.	22.6662	22.6662	TONs
Hydrogen Fluoride (Hydrofluoric Acid)	7664393	0.	2.83328	2.83328	TONs
Indeno[1,2,3-C,D]Pyrene	193395	0.	9.9585E-09	9.9585E-09	TONs
MN - Manganese	7439965	0.	0.00523474	0.00523474	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	0.00761147	0.00761147	TONs
Methylcholanthrene, 3-	56495	0.	9.9585E-09	9.9585E-09	TONs
Methylnaphthalene, 2-	91576	0.	2.6556E-07	2.6556E-07	TONs
Naphthalene	91203	0.	6.74965E-06	6.74965E-06	TONs
Nickel	7440020	0.	4.94744E-04	4.94744E-04	TONs
Phenanthrene	85018	0.	1.88105E-07	1.88105E-07	TONs
Polycyclic Organic Matter	246	0.	9.96535E-04	9.96535E-04	TONs
Pyrene	129000	0.	5.5325E-08	5.5325E-08	TONs
Selenium	7782492	0.	0.00142052	0.00142052	TONs
Toluene	108883	0.	3.7621E-05	3.7621E-05	TONs

- **Processes**
  - **Process & Emissions Detail**

Name: B008-NG

Source Classification Code (SCC): 1-01-006-01

- **Material Information, Annual Average Operating Schedule & Throughput Percent**

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 7

Weeks Per Year: 52

Hours Per Year: 4380

Winter (Dec - Feb)%: 46

Spring (March-May)%: 15

Summer (June-Aug)%: 38

Fall (Sept-Nov)%: 1

Material	Material Action	Throughput	X Units
Natural Gas	Burned	22.13	MILLION CUBIC FEET

Variable	Amount	Meaning
HCg	1033	Gas Heat Content (Btu/Cubic Feet)

- **Process Emissions**

Pollutant	Code	$	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		factor:ENG. JUDGEMENT	0	0.0456	0.	5.04564E-04	5.04564E-04	TONs	Emission Factor Reference: AP-42 Section 1.4 (7/98) Condensable PM, PM-10, and PM-2.5 factor for natural gas = 5.7 lb/mmcf (uncontrolled). Factor used for the 2010 FER account for controls with efficiency of 99.2% for PM/Pb.
SO2 - Sulfur Dioxide	SO2	X	factor:OEPA (auto calculate)	0	0.6	0.	0.006639	0.006639	TONs	
NOx - Nitrogen Oxides	NOX	X	emissions: CEM			0	0	0.	TONs	Total emissions based on CEMS data and are accounted for under the primary fuel, coal.
Organic Compounds	OC	X	factor:OEPA (auto	0	11	0.	0.121715	0.121715	TONs	

			calculate)							
Pb - Lead	7439921	X	factor:OEPA (auto calculate)	0	5E-04	0.	4.426E-08	4.426E-08	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: ENG. JUDGEMENT			0	0.021	0.021	TONs	Emission Factor Reference: AP-42 Section 1.4 (7/98) Conservative estimate based on uncontrolled emission factor for natural gas combustion. Filterable PM, PM-10, and PM-2.5 factors for natural gas = 1.9 lb/mmcf (uncontrolled).
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0	0.021	0.021	TONs	Emission Factor Reference: AP-42 Section 1.4 (7/98) Conservative estimate based on uncontrolled emission factor for natural gas combustion. Filterable PM, PM-10, and PM-2.5 factors for natural gas = 1.9 lb/mmcf (uncontrolled).
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0	0.021	0.021	TONs	Emission Factor Reference: AP-42 Section 1.4 (7/98) Conservative estimate based on uncontrolled emission factor for natural gas combustion. Filterable PM, PM-10, and PM-2.5 factors for natural gas = 1.9 lb/mmcf (uncontrolled).
VOC - Volatile Organic Compounds	VOC		factor:OEPA (auto calculate)	0	5.5	0.	0.0608575	0.0608575	TONs	
Ammonia	NH3		factor:OEPA (auto calculate)	0	3.2	0.	0.035408	0.035408	TONs	
CO - Carbon Monoxide	CO		factor:OEPA (auto calculate)	0	84	0.	0.92946	0.92946	TONs	
Total of Chargable Pollutants								0.149354	TONS	

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- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Acenaphthene	83329	factor:OEP	0	9E-07	0.	9.9585E-09	9.9585E-09	TONs	

		A (auto calculate)							
Acenaphthylene	208968	factor:OEP A (auto calculate)	0	9E-07	0.	9.9585E-09	9.9585E-09	TONs	
Acetaldehyde	75070	factor:OEP A (auto calculate)	0	0.0215897	0.	2.3889E-04	2.3889E-04	TONs	
Acrolein	107028	factor:OEP A (auto calculate)	0	0.018594	0.	2.05743E-04	2.05743E-04	TONs	
Anthracene	120127	factor:OEP A (auto calculate)	0	1.2E-06	0.	1.3278E-08	1.3278E-08	TONs	
Arsenic	7440382	factor:OEP A (auto calculate)	0	2E-04	0.	1.7704E-08	1.7704E-08	TONs	
Benz[A]Anthracene	56553	factor:OEP A (auto calculate)	0	9E-07	0.	9.9585E-09	9.9585E-09	TONs	
Benzene	71432	factor:OEP A (auto calculate)	0	0.0021	0.	2.32365E-05	2.32365E-05	TONs	
Benzo[A]Pyrene	50328	factor:OEP A (auto calculate)	0	6E-07	0.	6.639E-09	6.639E-09	TONs	
Benzo[B]Fluoranthene	205992	factor:OEP A (auto calculate)	0	9E-07	0.	9.9585E-09	9.9585E-09	TONs	
Benzo[G,H,I,]Perylene	191242	factor:OEP A (auto calculate)	0	6E-07	0.	6.639E-09	6.639E-09	TONs	
Benzo[K]Fluoranthene	207089	factor:OEP A (auto calculate)	0	9E-07	0.	9.9585E-09	9.9585E-09	TONs	
Beryllium	7440417	factor:OEP A (auto calculate)	0	6E-06	0.	5.3112E-10	5.3112E-10	TONs	
Cadmium	7440439	factor:OEP A (auto calculate)	0	0.0011	0.	9.7372E-08	9.7372E-08	TONs	
Chromium	7440473	factor:OEP	0	0.0014	0.	1.23928E-07	1.23928E-07	TONs	

		A (auto calculate)							
Chrysene	218019	factor:OEP A (auto calculate)	0	9E-07	0.	9.9585E-09	9.9585E-09	TONs	
Cobalt	7440484	factor:OEP A (auto calculate)	0	8.4E-05	0.	7.43568E-09	7.43568E-09	TONs	
Dibenzo[A,H]Anthracene	53703	factor:OEP A (auto calculate)	0	6E-07	0.	6.639E-09	6.639E-09	TONs	
Dimethylbenz[A]Anthracene, 7,12-	57976	factor:OEP A (auto calculate)	0	8E-06	0.	8.852E-08	8.852E-08	TONs	
Fluoranthene	206440	factor:OEP A (auto calculate)	0	3E-06	0.	3.3195E-08	3.3195E-08	TONs	
Fluorene	86737	factor:OEP A (auto calculate)	0	2.8E-06	0.	3.0982E-08	3.0982E-08	TONs	
Formaldehyde	50000	factor:OEP A (auto calculate)	0	0.075	0.	8.29875E-04	8.29875E-04	TONs	
Hexane, N-	110543	factor:OEP A (auto calculate)	0	1.8	0.	0.019917	0.019917	TONs	
Indeno[1,2,3-C,D]Pyrene	193395	factor:OEP A (auto calculate)	0	9E-07	0.	9.9585E-09	9.9585E-09	TONs	
MN - Manganese	7439965	factor:OEP A (auto calculate)	0	3.8E-04	0.	3.36376E-08	3.36376E-08	TONs	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	factor:OEP A (auto calculate)	0	2.6E-04	0.	2.8769E-06	2.8769E-06	TONs	
Methylcholanthrene, 3-	56495	factor:OEP A (auto calculate)	0	9E-07	0.	9.9585E-09	9.9585E-09	TONs	
Methylnaphthalene, 2-	91576	factor:OEP A (auto	0	2.4E-05	0.	2.6556E-07	2.6556E-07	TONs	

		calculate)							
Naphthalene	91203	factor:OEPA (auto calculate)	0	6.1E-04	0.	6.74965E-06	6.74965E-06	TONs	
Nickel	7440020	factor:OEPA (auto calculate)	0	0.0021	0.	1.85892E-07	1.85892E-07	TONs	
Phenanthrene	85018	factor:OEPA (auto calculate)	0	1.7E-05	0.	1.88105E-07	1.88105E-07	TONs	
Polycyclic Organic Matter	246	factor:OEPA (auto calculate)	0	6.70417E-04	0.	7.41816E-06	7.41816E-06	TONs	
Pyrene	129000	factor:OEPA (auto calculate)	0	5E-06	0.	5.5325E-08	5.5325E-08	TONs	
Selenium	7782492	factor:OEPA (auto calculate)	0	1.2E-05	0.	1.06224E-09	1.06224E-09	TONs	
Toluene	108883	factor:OEPA (auto calculate)	0	0.0034	0.	3.7621E-05	3.7621E-05	TONs	

- Process & Emissions Detail

Name: B008-Coal

Source Classification Code (SCC): 1-01-002-02

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 7

Weeks Per Year: 52

Hours Per Year: 4380

Winter (Dec - Feb)%: 46

Spring (March-May)%: 15

Summer (June-Aug)%: 38

Fall (Sept-Nov)%: 1

Material	Material Action	Throughput	X Units
Bituminous/Subbituminous Coal	Burned	37777	TONs

Variable	Amount	Meaning
A	9.90	% Ash content by weight
HCs	12588	Solid Heat Content (Btu/Lb)
S	0.71	% Sulfur content by weight

- **Process Emissions**

Pollutant	Code	$	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		emissions: ENG. JUDGEMENT			0	0.77	0.77	TONs	Condensable PM based on AP-42 Section 1.1 (9/98) emission factor of (0.1*(%Sulfur)) - 0.03 lbs/ton coal (controlled).
SO2 - Sulfur Dioxide	SO2	X	emissions: ENG. JUDGEMENT			0	509.61	509.61	TONs	Based on AP-42 Section 1.1 (9/98) emission factor of 38*(%Sulfur) lbs/ton coal.
NOx - Nitrogen Oxides	NOX	X	emissions: CEM			0	163.5	163.5	TONs	Based on CEM data.
Organic Compounds	OC	X	emissions: ENG. JUDGEMENT			0	1.13	1.13	TONs	Based on AP-42 Section 1.1 (9/98) emission factor of 0.06 lb/ton.
Pb - Lead	7439921	X	emissions: ENG. JUDGEMENT			0	0.002	0.002	TONs	Emission Factor Reference: AP-42 Section 1.1 (9/98) Lead emission factor for coal = 507 lbs/10^12 Btu (uncontrolled). Factor used for the 2010 FER accounts for controls with an efficiency of 99.2% for PM/Pb.
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: ENG. JUDGEMENT			0	14.96	14.96	TONs	Filterable PM based on AP-42 Section 1.1 (9/98) emission factor of 10*(%Ash) lbs/ton coal (uncontrolled). Filterable PM also accounts for the control efficiency (99.2% PM Control Efficiency) of the associated pollution control device (ESP).
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0	9.89	9.89	TONs	Filterable PM-10 based on AP-42 Section 1.1 (9/98) emission factor of 2.3*(%Ash) lbs/ton coal (uncontrolled). Filterable PM-10 also accounts for the control efficiency (97.7% PM-10 Control Efficiency) of the associated pollution control device (ESP).
PM2.5 (FILT) - Primary PM2.5,	PM25-FIL		emissions: ENG.			0	4.38	4.38	TONs	Filterable PM-2.5 based on AP-42 Section 1.1 (9/98) emission factor of 0.6*(%Ash) lbs/ton coal (uncontrolled).

Filterable Portion Only			JUDGEMENT							Filterable PM-2.5 also accounts for the control efficiency (96.1% PM-2.5 Control Efficiency) of the associated pollution control device (ESP).
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0	1.13	1.13	TONs	Based on AP-42 Section 1.1 (9/98) emission factor of 0.06 lb/ton.
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0.01	0.01	TONs	Based on FIRE database (Battye, 1994) uncontrolled emission factor of 0.565 lb/1000 tons.
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	9.44	9.44	TONs	Based on AP-42 Section 1.1 (9/98) emission factor of 0.5 lb/ton.
Total of Chargable Pollutants								689.202	TONS	

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The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations. The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Arsenic	7440382	factor:OEPA (auto calculate)	0	0.0172204	0.	0.00260214	0.00260214	TONs	
Beryllium	7440417	factor:OEPA (auto calculate)	0	0.00203926	0.	3.08149E-04	3.08149E-04	TONs	
Cadmium	7440439	factor:OEPA (auto calculate)	0	0.00111781	0.	1.6891E-04	1.6891E-04	TONs	
Chromium	7440473	factor:OEPA (auto calculate)	0	0.00402816	0.	6.08687E-04	6.08687E-04	TONs	
Hydrochloric Acid (Hydrogen Chloride)	7647010	factor:OEPA (auto calculate)	0	1.2	0.	22.6662	22.6662	TONs	
Hydrogen	7664393	factor:OEP	0	0.15	0.	2.83328	2.83328	TONs	

Fluoride (Hydrofluoric Acid)		A (auto calculate)							
MN - Manganese	7439965	factor:OEP A (auto calculate)	0	0.0346422	0.	0.00523471	0.00523471	TONs	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	factor:OEP A (auto calculate)	0	4.02816E-04	0.	0.00760859	0.00760859	TONs	
Nickel	7440020	factor:OEP A (auto calculate)	0	0.00327288	0.	4.94558E-04	4.94558E-04	TONs	
Polycyclic Organic Matter	246	factor:OEP A (auto calculate)	0	5.23661E-05	0.	9.89117E-04	9.89117E-04	TONs	
Selenium	7782492	factor:OEP A (auto calculate)	0	0.00940072	0.	0.00142052	0.00142052	TONs	

Emission Unit Summary: B009

Oct 11 2011, 15:18:26

Emissions Unit ID: B009

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		0.	0.620079	0.620079	TONs	
SO2 - Sulfur Dioxide	SO2	X	0.	615.6	615.6	TONs	X
NOx - Nitrogen Oxides	NOX	X	0.	195.7	195.7	TONs	X
Organic Compounds	OC	X	0.	1.9464	1.9464	TONs	
Pb - Lead	7439921	X	0.	0.00100001	0.00100001	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.	6.443	6.443	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.	5.923	5.923	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.	3.483	3.483	TONs	
VOC - Volatile Organic Compounds	VOC		0.	1.9082	1.9082	TONs	
Ammonia	NH3		0.	0.042224	0.042224	TONs	
CO - Carbon Monoxide	CO		0.	16.2034	16.2034	TONs	
Total of Chargable Pollutants					819.69	TONS	

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations. The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

Pollutant	Code	Fugitive Amount	Stack Amount	Total	Units
Acenaphthene	83329	0.	6.2505E-09	6.2505E-09	TONs
Acenaphthylene	208968	0.	6.2505E-09	6.2505E-09	TONs
Acetaldehyde	75070	0.	1.4994E-04	1.4994E-04	TONs
Acrolein	107028	0.	1.29135E-04	1.29135E-04	TONs
Anthracene	120127	0.	8.334E-09	8.334E-09	TONs
Arsenic	7440382	0.	0.00106516	0.00106516	TONs

Benz[A]Anthracene	56553	0.	6.2505E-09	6.2505E-09	TONs
Benzene	71432	0.	1.45845E-05	1.45845E-05	TONs
Benzo[A]Pyrene	50328	0.	4.167E-09	4.167E-09	TONs
Benzo[B]Fluoranthene	205992	0.	6.2505E-09	6.2505E-09	TONs
Benzo[G,H,I,]Perylene	191242	0.	4.167E-09	4.167E-09	TONs
Benzo[K]Fluoranthene	207089	0.	6.2505E-09	6.2505E-09	TONs
Beryllium	7440417	0.	1.26138E-04	1.26138E-04	TONs
Cadmium	7440439	0.	6.91571E-05	6.91571E-05	TONs
Chromium	7440473	0.	2.49179E-04	2.49179E-04	TONs
Chrysene	218019	0.	6.2505E-09	6.2505E-09	TONs
Cobalt	7440484	0.	1.16676E-09	1.16676E-09	TONs
Dibenzo[A,H]Anthracene	53703	0.	4.167E-09	4.167E-09	TONs
Dimethylbenz[A]Anthracene, 7,12-	57976	0.	5.556E-08	5.556E-08	TONs
Fluoranthene	206440	0.	2.0835E-08	2.0835E-08	TONs
Fluorene	86737	0.	1.9446E-08	1.9446E-08	TONs
Formaldehyde	50000	0.	5.20875E-04	5.20875E-04	TONs
Hexane, N-	110543	0.	0.012501	0.012501	TONs
Hydrochloric Acid (Hydrogen Chloride)	7647010	0.	37.482	37.482	TONs
Hydrogen Fluoride (Hydrofluoric Acid)	7664393	0.	4.68525	4.68525	TONs
Indeno[1,2,3-C,D]Pyrene	193395	0.	6.2505E-09	6.2505E-09	TONs
MN - Manganese	7439965	0.	0.00214279	0.00214279	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	0.0124598	0.0124598	TONs
Methylcholanthrene, 3-	56495	0.	6.2505E-09	6.2505E-09	TONs
Methylnaphthalene, 2-	91576	0.	1.6668E-07	1.6668E-07	TONs
Naphthalene	91203	0.	4.23645E-06	4.23645E-06	TONs
Nickel	7440020	0.	2.02472E-04	2.02472E-04	TONs
Phenanthrene	85018	0.	1.18065E-07	1.18065E-07	TONs
Polycyclic Organic Matter	246	0.	0.00187336	0.00187336	TONs
Pyrene	129000	0.	3.4725E-08	3.4725E-08	TONs
Selenium	7782492	0.	5.81478E-04	5.81478E-04	TONs
Toluene	108883	0.	2.3613E-05	2.3613E-05	TONs

- **Processes**
  - **Process & Emissions Detail**

Name: B009-Coal

Source Classification Code (SCC): 1-01-002-12

- **Material Information, Annual Average Operating Schedule & Throughput Percent**

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 7

Weeks Per Year: 52

Hours Per Year: 3632

Winter (Dec - Feb)%: 0

Spring (March-May)%: 19

Summer (June-Aug)%: 63

Fall (Sept-Nov)%: 18

Material	Material Action	Throughput	X Units
Bituminous/Subbituminous Coal	Burned	62470	TONs

Variable	Amount	Meaning
A	10.29	% Ash content by weight
HCs	12464	Solid Heat Content (Btu/Lb)
S	1.74	% Sulfur content by weight

- **Process Emissions**

Pollutant	Code	$	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		emissions: ENG. JUDGEMENT			0	0.62	0.62	TONs	Condensable PM based on AP-42 Section 1.1 (9/98) emission factor of 0.02 lbs/ton coal (controlled).
SO2 - Sulfur Dioxide	SO2	X	emissions: CEM			0	615.6	615.6	TONs	Based on CEM data.
NOx - Nitrogen Oxides	NOX	X	emissions: CEM			0	195.7	195.7	TONs	Based on CEM data.

Organic Compounds	OC	X	emissions: ENG. JUDGEMENT			0	1.87	1.87	TONs	Based on AP-42 Section 1.1 (9/98) emission factor of 0.06 lb/ton.
Pb - Lead	7439921	X	emissions: ENG. JUDGEMENT			0	0.001	0.001	TONs	Emission Factor Reference: AP-42 Section 1.1 (9/98) Lead emission factor for coal = 507 lbs/10^12 Btu (uncontrolled). Factor used for the 2010 FER accounts for controls with an efficiency of 99.8% for PM/Pb.
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: ENG. JUDGEMENT			0	6.43	6.43	TONs	Filterable PM based on AP-42 Section 1.1 (9/98) emission factor of 10*(%Ash) lbs/ton coal (uncontrolled). Filterable PM also accounts for the control efficiency (99.8% PM Control Efficiency) of the associated pollution control device (baghouse or ESP).
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0	5.91	5.91	TONs	Filterable PM-10 based on AP-42 Section 1.1 (9/98) emission factor of 2.3*(%Ash) lbs/ton coal (uncontrolled). Filterable PM-10 also accounts for the control efficiency (99.2% PM-10 Control Efficiency) of the associated pollution control device (baghouse or ESP).
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0	3.47	3.47	TONs	Filterable PM-2.5 based on AP-42 Section 1.1 (9/98) emission factor of 0.6*(%Ash) lbs/ton coal (uncontrolled). Filterable PM-2.5 also accounts for the control efficiency (98.2% PM-2.5 Control Efficiency) of the associated pollution control device (baghouse or ESP).
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0	1.87	1.87	TONs	Based on AP-42 Section 1.1 (9/98) emission factor of 0.06 lb/ton.
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0.02	0.02	TONs	Based on FIRE database (Battye, 1994) uncontrolled emission factor of 0.565 lb/1000 tons.
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	15.62	15.62	TONs	Based on AP-42 Section 1.1 (9/98) emission factor of 0.5 lb/ton.
Total of Chargable Pollutants								819.601	TONS	

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The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations. The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Arsenic	7440382	factor:OEPA (auto calculate)	0	0.0170508	0.	0.00106516	0.00106516	TONs	
Beryllium	7440417	factor:OEPA (auto calculate)	0	0.00201917	0.	1.26138E-04	1.26138E-04	TONs	
Cadmium	7440439	factor:OEPA (auto calculate)	0	0.0011068	0.	6.91418E-05	6.91418E-05	TONs	
Chromium	7440473	factor:OEPA (auto calculate)	0	0.00398848	0.	2.4916E-04	2.4916E-04	TONs	
Hydrochloric Acid (Hydrogen Chloride)	7647010	factor:OEPA (auto calculate)	0	1.2	0.	37.482	37.482	TONs	
Hydrogen Fluoride (Hydrofluoric Acid)	7664393	factor:OEPA (auto calculate)	0	0.15	0.	4.68525	4.68525	TONs	
MN - Manganese	7439965	factor:OEPA (auto calculate)	0	0.0343009	0.	0.00214278	0.00214278	TONs	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	factor:OEPA (auto calculate)	0	3.98848E-04	0.	0.012458	0.012458	TONs	
Nickel	7440020	factor:OEPA (auto calculate)	0	0.00324064	0.	2.02443E-04	2.02443E-04	TONs	
Polycyclic Organic Matter	246	factor:OEPA (auto calculate)	0	5.98272E-05	0.	0.0018687	0.0018687	TONs	
Selenium	7782492	factor:OEPA (auto calculate)	0	0.00930812	0.	5.81478E-04	5.81478E-04	TONs	

- Process & Emissions Detail

Name: B009-NG

Source Classification Code (SCC): 1-01-006-01

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 7

Weeks Per Year: 52

Hours Per Year: 3632

Winter (Dec - Feb)%: 0

Spring (March-May)%: 19

Summer (June-Aug)%: 63

Fall (Sept-Nov)%: 18

Material	Material Action	Throughput	X Units
Natural Gas	Burned	13.89	MILLION CUBIC FEET

Variable	Amount	Meaning
HCg	1033	Gas Heat Content (Btu/Cubic Feet)

- Process Emissions

Pollutant	Code	$	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		factor:ENG. JUDGEMENT	0	0.0114	0.	7.9173E-05	7.9173E-05	TONs	Emission Factor Reference: AP-42 Section 1.4 (7/98) Condensable PM, PM-10, and PM-2.5 factor for natural gas = 5.7 lb/mmcf (uncontrolled). Factor used for the 2010 FER account for controls with efficiency of 99.8% for PM/Pb.
SO2 - Sulfur Dioxide	SO2	X	emissions: CEM			0	0	0.	TONs	Total emissions based on CEMS data and are accounted for under the primary fuel, coal.
NOx - Nitrogen Oxides	NOX	X	emissions: CEM			0	0	0.	TONs	Total emissions based on CEMS data and are accounted for under the primary fuel, coal.
Organic Compounds	OC	X	factor:OEPA (auto calculate)	0	11	0.	0.076395	0.076395	TONs	
Pb - Lead	7439921	X	factor:OEP	0	5E-04	0.	6.945E-09	6.945E-09	TONs	

			A (auto calculate)							
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: ENG. JUDGEMENT			0	0.013	0.013	TONs	Emission Factor Reference: AP-42 Section 1.4 (7/98) Conservative estimate based on uncontrolled emission factor for natural gas combustion. Filterable PM, PM-10, and PM-2.5 factors for natural gas = 1.9 lb/mmcf (uncontrolled).
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0	0.013	0.013	TONs	Emission Factor Reference: AP-42 Section 1.4 (7/98) Conservative estimate based on uncontrolled emission factor for natural gas combustion. Filterable PM, PM-10, and PM-2.5 factors for natural gas = 1.9 lb/mmcf (uncontrolled).
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0	0.013	0.013	TONs	Emission Factor Reference: AP-42 Section 1.4 (7/98) Conservative estimate based on uncontrolled emission factor for natural gas combustion. Filterable PM, PM-10, and PM-2.5 factors for natural gas = 1.9 lb/mmcf (uncontrolled).
VOC - Volatile Organic Compounds	VOC		factor:OEPA (auto calculate)	0	5.5	0.	0.0381975	0.0381975	TONs	
Ammonia	NH3		factor:OEPA (auto calculate)	0	3.2	0.	0.022224	0.022224	TONs	
CO - Carbon Monoxide	CO		factor:OEPA (auto calculate)	0	84	0.	0.58338	0.58338	TONs	
Total of Chargable Pollutants								0.089395	TONS	

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations. The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

Process Emissions

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Acenaphthene	83329	factor:OEPA (auto calculate)	0	9E-07	0.	6.2505E-09	6.2505E-09	TONs	

Acenaphthylene	208968	factor:OEPA (auto calculate)	0	9E-07	0.	6.2505E-09	6.2505E-09	TONs	
Acetaldehyde	75070	factor:OEPA (auto calculate)	0	0.0215897	0.	1.4994E-04	1.4994E-04	TONs	
Acrolein	107028	factor:OEPA (auto calculate)	0	0.018594	0.	1.29135E-04	1.29135E-04	TONs	
Anthracene	120127	factor:OEPA (auto calculate)	0	1.2E-06	0.	8.334E-09	8.334E-09	TONs	
Arsenic	7440382	factor:OEPA (auto calculate)	0	2E-04	0.	2.778E-09	2.778E-09	TONs	
Benz[A]Anthracene	56553	factor:OEPA (auto calculate)	0	9E-07	0.	6.2505E-09	6.2505E-09	TONs	
Benzene	71432	factor:OEPA (auto calculate)	0	0.0021	0.	1.45845E-05	1.45845E-05	TONs	
Benzo[A]Pyrene	50328	factor:OEPA (auto calculate)	0	6E-07	0.	4.167E-09	4.167E-09	TONs	
Benzo[B]Fluoranthene	205992	factor:OEPA (auto calculate)	0	9E-07	0.	6.2505E-09	6.2505E-09	TONs	
Benzo[G,H,I,]Perylene	191242	factor:OEPA (auto calculate)	0	6E-07	0.	4.167E-09	4.167E-09	TONs	
Benzo[K]Fluoranthene	207089	factor:OEPA (auto calculate)	0	9E-07	0.	6.2505E-09	6.2505E-09	TONs	
Beryllium	7440417	factor:OEPA (auto calculate)	0	6E-06	0.	8.334E-11	8.334E-11	TONs	
Cadmium	7440439	factor:OEPA (auto calculate)	0	0.0011	0.	1.5279E-08	1.5279E-08	TONs	
Chromium	7440473	factor:OEPA (auto calculate)	0	0.0014	0.	1.9446E-08	1.9446E-08	TONs	

Chrysene	218019	factor:OEPA (auto calculate)	0	9E-07	0.	6.2505E-09	6.2505E-09	TONs	
Cobalt	7440484	factor:OEPA (auto calculate)	0	8.4E-05	0.	1.16676E-09	1.16676E-09	TONs	
Dibenzo[A,H]Anthracene	53703	factor:OEPA (auto calculate)	0	6E-07	0.	4.167E-09	4.167E-09	TONs	
Dimethylbenz[A]Anthracene, 7,12-	57976	factor:OEPA (auto calculate)	0	8E-06	0.	5.556E-08	5.556E-08	TONs	
Fluoranthene	206440	factor:OEPA (auto calculate)	0	3E-06	0.	2.0835E-08	2.0835E-08	TONs	
Fluorene	86737	factor:OEPA (auto calculate)	0	2.8E-06	0.	1.9446E-08	1.9446E-08	TONs	
Formaldehyde	50000	factor:OEPA (auto calculate)	0	0.075	0.	5.20875E-04	5.20875E-04	TONs	
Hexane, N-	110543	factor:OEPA (auto calculate)	0	1.8	0.	0.012501	0.012501	TONs	
Indeno[1,2,3-C,D]Pyrene	193395	factor:OEPA (auto calculate)	0	9E-07	0.	6.2505E-09	6.2505E-09	TONs	
MN - Manganese	7439965	factor:OEPA (auto calculate)	0	3.8E-04	0.	5.2782E-09	5.2782E-09	TONs	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	factor:OEPA (auto calculate)	0	2.6E-04	0.	1.8057E-06	1.8057E-06	TONs	
Methylcholanthrene, 3-	56495	factor:OEPA (auto calculate)	0	9E-07	0.	6.2505E-09	6.2505E-09	TONs	
Methylnaphthalene, 2-	91576	factor:OEPA (auto calculate)	0	2.4E-05	0.	1.6668E-07	1.6668E-07	TONs	
Naphthalene	91203	factor:OEP	0	6.1E-04	0.	4.23645E-06	4.23645E-06	TONs	

		A (auto calculate)							
Nickel	7440020	factor:OEP A (auto calculate)	0	0.0021	0.	2.9169E-08	2.9169E-08	TONs	
Phenanthrene	85018	factor:OEP A (auto calculate)	0	1.7E-05	0.	1.18065E-07	1.18065E-07	TONs	
Polycyclic Organic Matter	246	factor:OEP A (auto calculate)	0	6.70417E -04	0.	4.65605E-06	4.65605E-06	TONs	
Pyrene	129000	factor:OEP A (auto calculate)	0	5E-06	0.	3.4725E-08	3.4725E-08	TONs	
Selenium	7782492	factor:OEP A (auto calculate)	0	1.2E-05	0.	1.6668E-10	1.6668E-10	TONs	
Toluene	108883	factor:OEP A (auto calculate)	0	0.0034	0.	2.3613E-05	2.3613E-05	TONs	

Emission Unit Summary: F002

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Emissions Unit ID: F002

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		0.	0.	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X	0.	0.	0.	TONs	
NOx - Nitrogen Oxides	NOX	X	0.	0.	0.	TONs	
Organic Compounds	OC	X	0.	0.	0.	TONs	
Pb - Lead	7439921	X	0.	0.	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	1.19	0.	1.19	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.42	0.	0.42	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.063	0.	0.063	TONs	
VOC - Volatile Organic Compounds	VOC		0.	0.	0.	TONs	
Ammonia	NH3		0.	0.	0.	TONs	
CO - Carbon Monoxide	CO		0.	0.	0.	TONs	
Total of Chargable Pollutants					1.19	TONS	

- Processes

- Process & Emissions Detail

Name: F002-Crushing

Source Classification Code (SCC): 3-05-010-10

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 7

Weeks Per Year: 52

Hours Per Year: 8760

Winter (Dec - Feb)%: 25

Spring (March-May)%: 25

Summer (June-Aug)%: 25

Fall (Sept-Nov)%: 25

Material	Material Action	Throughput	X Units
Coal	Shipped	100247	TONs

- **Process Emissions**

Pollutant	Code	$	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
SO2 - Sulfur Dioxide	SO2	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
NOx - Nitrogen Oxides	NOX	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
Organic Compounds	OC	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
Pb - Lead	7439921	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: ENG. JUDGEMENT			0.05	0	0.05	TONs	Emissions are based on EPRI factors and guidance, and the AWMA Air Pollution Engineering Manual with control efficiencies for enclosures.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0.02	0	0.02	TONs	Emissions are based on EPRI factors and guidance, and the AWMA Air Pollution Engineering Manual with control efficiencies for enclosures; partitioning based on AP-42 Section 13.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0.003	0	0.003	TONs	Emissions are based on EPRI factors and guidance, and the AWMA Air Pollution Engineering Manual with control efficiencies for enclosures; partitioning based on AP-42 Section 13.
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Appplicable

Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
Total of Chargable Pollutants								0.05	TONS	

- Process & Emissions Detail

Name: F002-Transfer

Source Classification Code (SCC): 3-05-010-11

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 7

Weeks Per Year: 52

Hours Per Year: 8760

Winter (Dec - Feb)%: 25

Spring (March-May)%: 25

Summer (June-Aug)%: 25

Fall (Sept-Nov)%: 25

Material	Material Action	Throughput	X Units
Coal	Shipped	100247	TONs

- Process Emissions

Pollutant	Code	$	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
SO2 - Sulfur Dioxide	SO2	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable

NOx - Nitrogen Oxides	NOX	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
Organic Compounds	OC	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
Pb - Lead	7439921	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: ENG. JUDGEMENT			0.18	0	0.18	TONs	Emissions are based on EPRI factors and guidance, and the AWMA Air Pollution Engineering Manual with control efficiencies for enclosures.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0.06	0	0.06	TONs	Emissions are based on EPRI factors and guidance, and the AWMA Air Pollution Engineering Manual with control efficiencies for enclosures; partitioning based on AP-42 Section 13.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0.01	0	0.01	TONs	Emissions are based on EPRI factors and guidance, and the AWMA Air Pollution Engineering Manual with control efficiencies for enclosures; partitioning based on AP-42 Section 13.
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
Total of Chargable Pollutants								0.18	TONS	

- **Process & Emissions Detail**

Name: F002-Unloading

Source Classification Code (SCC): 3-05-010-08

- **Material Information, Annual Average Operating Schedule & Throughput Percent**

Schedule Trade Secret:

Hours Per Day:	24	Winter (Dec - Feb)%:	25
Days Per Week:	7	Spring (March-May)%:	25
Weeks Per Year:	52	Summer (June-Aug)%:	25
Hours Per Year:	8760	Fall (Sept-Nov)%:	25

Material	Material Action	Throughput	X Units
Coal	Shipped	100247	TONs

- **Process Emissions**

Pollutant	Code	$	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
SO2 - Sulfur Dioxide	SO2	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
NOx - Nitrogen Oxides	NOX	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
Organic Compounds	OC	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
Pb - Lead	7439921	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: ENG. JUDGEMENT			0.96	0	0.96	TONs	Emissions are based on EPRI factors and guidance, and the AWMA Air Pollution Engineering Manual with control efficiencies for windbreaks.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0.34	0	0.34	TONs	Emissions are based on EPRI factors and guidance, and the AWMA Air Pollution Engineering Manual with control efficiencies for windbreaks; partitioning based on AP-42 Section 13.
PM2.5 (FILT) - Primary PM2.5,	PM25-FIL		emissions: ENG.			0.05	0	0.05	TONs	Emissions are based on EPRI factors and guidance, and the AWMA Air Pollution Engineering Manual with control

Filterable Portion Only			JUDGEMENT							efficiencies for windbreaks; partitioning based on AP-42 Section 13.
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
Total of Chargable Pollutants								0.96	TONS	

Emission Unit Summary: F003

Oct 11 2011, 15:18:26

Emissions Unit ID: F003

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X	0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X	0	0	0.	TONs	
Organic Compounds	OC	X	0	0	0.	TONs	
Pb - Lead	7439921	X	0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	1.21	0	1.21	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.42	0	0.42	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.06	0	0.06	TONs	
VOC - Volatile Organic Compounds	VOC		0	0	0.	TONs	
Ammonia	NH3		0	0	0.	TONs	
CO - Carbon Monoxide	CO		0	0	0.	TONs	
Total of Chargable Pollutants					1.21	TONS	

- Processes

- Process & Emissions Detail

Name: F003-Piles

Source Classification Code (SCC): 3-05-010-43

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 7

Weeks Per Year: 52

Hours Per Year: 8760

Winter (Dec - Feb)%: 25

Spring (March-May)%: 25

Summer (June-Aug)%: 25

Fall (Sept-Nov)%: 25

Material	Material Action	Throughput	X Units
Coal Storage Area	Existing	2	ACRE-YEARS

- **Process Emissions**

Pollutant	Code	$	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
SO2 - Sulfur Dioxide	SO2	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
NOx - Nitrogen Oxides	NOX	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
Organic Compounds	OC	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
Pb - Lead	7439921	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: ENG. JUDGEMENT			1.21	0	1.21	TONs	Emissions are based on EPRI factors and guidance, and the AWMA Air Pollution Engineering Manual.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0.42	0	0.42	TONs	Emissions are based on EPRI factors and guidance, and the AWMA Air Pollution Engineering Manual; partitioning based on AP-42 Section 13.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0.06	0	0.06	TONs	Emissions are based on EPRI factors and guidance, and the AWMA Air Pollution Engineering Manual; partitioning based on AP-42 Section 13.
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable

Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	0	0.	TONs	Not Applicable
Total of Chargable Pollutants								1.21	TONS	