

TV FER/EIS Emissions Report (202098) for 2010
Duke Energy Ohio, W.C. Beckjord Station
1413100008
April 14, 2011

Anthracene	120127	0.	0.	0.	TONs
Arsenic	7440382	0.	0.187	0.187	TONs
Benz[A]Anthracene	56553	0.	0.	0.	TONs
Benzene	71432	0.	0.001	0.001	TONs
Benzo[A]Pyrene	50328	0.	7.87624E-09	7.87624E-09	TONs
Benzo[B]Fluoranthene	205992	0.	0.	0.	TONs
Beryllium	7440417	0.	0.003	0.003	TONs
Butadiene, 1,3-	106990	0.	3.41108E-05	3.41108E-05	TONs
Cadmium	7440439	0.	0.0385	0.0385	TONs
Chromium	7440473	0.	0.227	0.227	TONs
Chrysene	218019	0.	4.72574E-08	4.72574E-08	TONs
Fluoranthene	206440	0.	2.46789E-07	2.46789E-07	TONs
Fluorene	86737	0.	0.	0.	TONs
Formaldehyde	50000	0.	0.0045	0.0045	TONs
Heptachlorodibenzo-P-Dioxin, 1,2,3,4,6,7,8-	35822469	0.	0.	0.	TONs
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562394	0.	0.	0.	TONs
Hexachlorodibenzo-P-Dioxin	34465468	0.	0.	0.	TONs
Hexachlorodibenzo-P-Dioxin, 1,2,3,4,7,8-	39227286	0.	0.	0.	TONs
Hexachlorodibenzo-P-Dioxin, 1,2,3,7,8,9-	19408743	0.	0.	0.	TONs
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648269	0.	0.	0.	TONs
Hydrochloric Acid (Hydrogen Chloride)	7647010	0.	1,332	1,332	TONs
Hydrogen Fluoride (Hydrofluoric Acid)	7664393	0.	133.8	133.8	TONs
MN - Manganese	7439965	0.	0.211	0.211	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	0.0995	0.0995	TONs
Naphthalene	91203	0.	0.001	0.001	TONs
Nickel	7440020	0.	0.2195	0.2195	TONs
Octachlorodibenzo-P-Dioxin	3268879	0.	0.	0.	TONs
Octachlorodibenzofuran	39001020	0.	0.	0.	TONs
PAH, 16-	40	0.	1.70554E-04	1.70554E-04	TONs
Pentachlorodibenzofuran, 1,2,3,7,8-	57117416	0.	0.	0.	TONs
Pentachlorodibenzofuran, 2,3,4,7,8-	57117314	0.	0.	0.	TONs

Phenanthrene	85018	0.	0.	0.	TONs
Polycyclic Organic Matter	246	0.	0.0482208	0.0482208	TONs
Pyrene	129000	0.	0.	0.	TONs
Selenium	7782492	0.	0.074	0.074	TONs
Tetrachlorodibenzofuran, 2,3,7,8-	51207319	0.	0.	0.	TONs
Total Heptachlorodibenzo-P-Dioxin	37871004	0.	0.	0.	TONs
Total Pentachlorodibenzofuran	30402154	0.	0.	0.	TONs

Attachments

Description	Type	Public Document	Trade Seceret Document	Trade secret Justification
2010 W.C. Beckjord Emissions Summary	Other	X		
2010 W.C. Beckjord F004 Dry Fly Ash Handling FER Calculations	Calculations	X		
2010 W.C. Beckjord F005 Ash Pond Truck Loading FER Calculations	Calculations	X		
2010 W.C. Beckjord F001 Coal Unloading FER Calculations	Calculations	X		
2010 W.C. Beckjord B001 - B010 FER Calculations	Calculations	X		
2010 W.C. Beckjord F002 Coal Storage Piles FER Calculations	Calculations	X		
2010 W.C. Beckjord F002 Coal Storage Piles Wind FER Calculations	Calculations	X		
2010 W.C. Beckjord F003 Plant Roadways FER Calculations	Calculations	X		
2010 W.C. Beckjord F005 Ash Pond B Wind FER Calculations	Calculations	X		
2010 W.C. Beckjord F005 Ash Pond C Wind FER Calculations	Calculations	X		
2010 W.C. Beckjord EIS Information	Other	X		

Notes

User Name	Date	Note
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Emission Units Without Detailed Emissions

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Emission Unit	Why Excluded	Company Equipment ID
B011	Exemption Status = De minimis	No. 1 Heat Boiler
B012	Exemption Status = De minimis	No. 2 Heat Boiler
B013	Exemption Status = De minimis	No. 3 Emergency Diesel
B014	Exemption Status = De minimis	No. 2 Emergency Diesel
B015	Exemption Status = De minimis	No. 1 Emergency Diesel
G001	Exemption Status = De minimis	Gasoline Storage Tank
T001	Exemption Status = De minimis	Fuel Oil Tank # 1
T002	Exemption Status = De minimis	Fuel Oil Tank # 2
T003	Exemption Status = De minimis	Fuel Oil Tank # 3
T004	Exemption Status = De minimis	Fuel Oil Tank # 4
T005	Exemption Status = De minimis	Fuel Oil Tank # 5
X001	Exemption Status = De minimis	East Turbine Oil Tank
X002	Exemption Status = De minimis	West Turbine Oil Tank
X003	Exemption Status = De minimis	Heating Boiler # 1 Fuel Oil Tank
X004	Exemption Status = De minimis	Heating Boiler # 2 Fuel Oil Tank
X005	Exemption Status = De minimis	#1 Emergency Diesel Fuel Tank
X006	Exemption Status = De minimis	#2 Emergency Diesel Fuel Tank
X007	Exemption Status = De minimis	#3 Emergency Diesel Fuel Tank
Z003	Less Than Reporting Requirement	Tool Room Parts Washer

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	1-01-002-12											
B001	1-01-005-01											
B001	1-01-002-26											
B002	1-01-002-12											
B002	1-01-005-01											
B002	1-01-002-26											
B003	1-01-002-02											

B003	1-01-005-01											
B003	1-01-002-22											
B004	1-01-002-12	228.62	4,492	1,148	7.70196	0.0365843	173.7	116.38	50.37	7.70196	0.0725268	64.183
B004	1-01-005-01	0.143212	0.	0.	0.11457	1.36213E-04	0.220326	0.110163	0.0275408	0.0220326	0.0881304	0.550815
B004	1-01-002-26											
B005	1-01-002-12	978.233	17,719	2,417	15.7441	0.0548419	233.54	156.47	67.73	15.7441	0.148257	131.201
B005	1-01-005-01	0.152675	0.	0.	0.12214	1.45214E-04	0.234884	0.117442	0.0293605	0.0234884	0.0939536	0.58721
B005	1-01-002-26											
B006	1-01-002-12	2,253.76	46,945	4,400	26.3187	0.0960634	397.11	266.07	115.16	26.3187	0.247835	219.323
B006	1-01-005-01	0.192761	0.	0.	0.154209	1.83339E-04	0.296555	0.148278	0.0370694	0.0296555	0.118622	0.741388
B006	1-01-002-26											
B007	2-01-001-01	0.0128795	0.00180675	0.8	0.00715542	2.5044E-05	0.00769224	0.00769224	0.00769224	7.33431E-04	0.0105808	0.00590323
B008	2-01-001-01	0.0107185	0.00150356	0.6	0.00595473	2.08416E-05	0.00640142	0.00640142	0.00640142	6.1036E-04	0.0087992	0.00491265
B009	2-01-001-01	0.00246779	3.46161E-04	0.2	0.00137094	4.7983E-06	0.00147379	0.00147379	0.00147379	1.40521E-04	0.0020096	0.00113103
B010	2-01-001-01	0.00463398	6.50017E-04	0.3	0.00257433	9.01018E-06	0.00276746	0.00276746	0.00276746	2.63869E-04	0.0037736	0.00212382
F001	3-05-101-03	0.	0.	0.	0.	0.	9.27	2.07	0.34	0.	0.	0.
F002	3-05-010-24	0.	0.	0.	0.	0.	5.62	1.34	0.2	0.	0.	0.
F002	3-05-010-49	0.	0.	0.	0.	0.	1.43	0.72	0.11	0.	0.	0.
F002	3-05-010-08	0.	0.	0.	0.	0.	2.54	1.21	0.16	0.	0.	0.

Report Pollutant Summary (continued)

Unit	SCC Id	PM-CON	SO2	NOX	OC	7439921	PM-FIL	PM10-FIL	PM25-FIL	VOC	NH3	CO
F003	3-05-010-50	0.	0.	0.	0.	0.	16.32	5.25	0.81	0.	0.	0.
F004	3-05-025-06	0.	0.	0.	0.	0.	0.02	0.01	0.01	0.	0.	0.
F005	3-05-025-06	0.	0.	0.	0.	0.	0.94	0.46	0.04	0.	0.	0.
F005	3-05-010-49	0.	0.	0.	0.	0.	3.58	1.8	0.27	0.	0.	0.
F006	3-05-888-01											

Total		3,461.13	69,156	7,966.9	50.1727	0.188014	844.84	552.174	235.312	49.8417	0.794488	416.6
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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+
Total of Chargable Pollutants					0.	TONS	

- Processes

- Process & Emissions Detail

Name: Unit 1 Coal

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

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 0
 Days Per Week: 0
 Weeks Per Year: 0
 Hours Per Year: 0

Winter (Dec - Feb)%: 25
 Spring (March-May)%: 25
 Summer (June-Aug)%: 25
 Fall (Sept-Nov)%: 25

Material	Material Action	Throughput	X Units
Bituminous/Subbituminous Coal	Burned	0	TONS

Variable	Amount	Meaning
A	12.27	% Ash content by weight
HCS	11805	Solid Heat Content (Btu/Lb)
S	0.92	% Sulfur content by weight

- Process Emissions

Pollutant	Code	\$ Method Used	Hours UnCont .	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Unit s	Explanation
Total of Chargable Pollutants							0.	TONS	

- **Process & Emissions Detail**

Name: Unit 1 Fuel Oil

Source Classification Code (SCC): 1-01-005-01

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

Schedule Trade Secret:

Hours Per Day: 0
Days Per Week: 0
Weeks Per Year: 0
Hours Per Year: 0

Winter (Dec - Feb)%: 25
Spring (March-May)%: 25
Summer (June-Aug)%: 25
Fall (Sept-Nov)%: 25

Material	Material Action	Throughput	X Units
Distillate Oil	Burned	0	1000 GALLONS

Variable	Amount	Meaning
HCl	137385	Liquid Heat Content (Btu/gallons)
S	0.01	% Sulfur content by weight

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont .	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Unit s	Explanation
Total of Chargable Pollutants							0.	TONS	

- **Process & Emissions Detail**

Name: Unit 1 Coal2

Source Classification Code (SCC): 1-01-002-26

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

Schedule Trade Secret:

Hours Per Day: 0
 Days Per Week: 0
 Weeks Per Year: 0
 Hours Per Year: 0

Winter (Dec - Feb)%: 25
 Spring (March-May)%: 25
 Summer (June-Aug)%: 25
 Fall (Sept-Nov)%: 25

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

Variable	Amount	Meaning
A		% Ash content by weight
HCS		Solid Heat Content (Btu/Lb)
S		% Sulfur content by weight

- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Total of Chargable Pollutants							0.	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+
Total of Chargable Pollutants					0.	TONS	

- Processes

- Process & Emissions Detail

Name: Unit 2 Coal

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

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 0
 Days Per Week: 0
 Weeks Per Year: 0
 Hours Per Year: 0

Winter (Dec - Feb)%: 25
 Spring (March-May)%: 25
 Summer (June-Aug)%: 25
 Fall (Sept-Nov)%: 25

Material	Material Action	Throughput	X Units
Bituminous/Subbituminous Coal	Burned	0	TONS

Variable	Amount	Meaning
A	12.2	% Ash content by weight
HCS	11793	Solid Heat Content (Btu/Lb)
S	0.94	% Sulfur content by weight

- Process Emissions

Pollutant	Code	\$ Method Used	Hours UnCont .	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Unit s	Explanation
Total of Chargable Pollutants							0.	TONS	

- **Process & Emissions Detail**

Name: Unit 2 Fuel Oil

Source Classification Code (SCC): 1-01-005-01

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

Schedule Trade Secret:

Hours Per Day: 0

Days Per Week: 0

Weeks Per Year: 0

Hours Per Year: 0

Winter (Dec - Feb)%: 25

Spring (March-May)%: 25

Summer (June-Aug)%: 25

Fall (Sept-Nov)%: 25

Material	Material Action	Throughput	X Units
Distillate Oil	Burned	0	1000 GALLONS

Variable	Amount	Meaning
HCl	137386	Liquid Heat Content (Btu/gallons)
S	0.01	% Sulfur content by weight

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont .	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Unit s	Explanation
Total of Chargable Pollutants							0.	TONS	

- **Process & Emissions Detail**

Name: Unit 2 Coal2

Source Classification Code (SCC): 1-01-002-26

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

Schedule Trade Secret:

Hours Per Day: 0
 Days Per Week: 0
 Weeks Per Year: 0
 Hours Per Year: 0

Winter (Dec - Feb)%: 25
 Spring (March-May)%: 25
 Summer (June-Aug)%: 25
 Fall (Sept-Nov)%: 25

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

Variable	Amount	Meaning
A		% Ash content by weight
HCS		Solid Heat Content (Btu/Lb)
S		% Sulfur content by weight

- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Total of Chargable Pollutants							0.	TONS	

Emission Unit Summary: B003

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Emissions Unit ID: B003

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
Total of Chargable Pollutants					0.	TONS	

- Processes

- Process & Emissions Detail

Name: Unit 3 Coal

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

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 0
 Days Per Week: 0
 Weeks Per Year: 0
 Hours Per Year: 0

Winter (Dec - Feb)%: 25
 Spring (March-May)%: 25
 Summer (June-Aug)%: 25
 Fall (Sept-Nov)%: 25

Material	Material Action	Throughput	X Units
Bituminous/Subbituminous Coal	Burned	0	TONS

Variable	Amount	Meaning
A	12.2	% Ash content by weight
HCS	11803	Solid Heat Content (Btu/Lb)
S	0.94	% Sulfur content by weight

- Process Emissions

Pollutant	Code	\$ Method Used	Hours UnCont .	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Unit s	Explanation
Total of Chargable Pollutants							0.	TONS	

- **Process & Emissions Detail**

Name: Unit 3 Fuel Oil

Source Classification Code (SCC): 1-01-005-01

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

Schedule Trade Secret:

Hours Per Day: 0
Days Per Week: 0
Weeks Per Year: 0
Hours Per Year: 0

Winter (Dec - Feb)%: 25
Spring (March-May)%: 25
Summer (June-Aug)%: 25
Fall (Sept-Nov)%: 25

Material	Material Action	Throughput	X Units
Distillate Oil	Burned	0	1000 GALLONS

Variable	Amount	Meaning
HCl	137385	Liquid Heat Content (Btu/gallons)
S	0.01	% Sulfur content by weight

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont .	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Unit s	Explanation
Total of Chargable Pollutants							0.	TONS	

- **Process & Emissions Detail**

Name: Unit 3 Coal2

Source Classification Code (SCC): 1-01-002-22

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

Schedule Trade Secret:

Hours Per Day: 0
 Days Per Week: 0
 Weeks Per Year: 0
 Hours Per Year: 0

Winter (Dec - Feb)%: 25
 Spring (March-May)%: 25
 Summer (June-Aug)%: 25
 Fall (Sept-Nov)%: 25

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

Variable	Amount	Meaning
A		% Ash content by weight
HCS		Solid Heat Content (Btu/Lb)
S		% Sulfur content by weight

- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Total of Chargable Pollutants							0.	TONS	

Benzo[A]Pyrene	50328	0	0	0.	TONs
Benzo[B]Fluoranthene	205992	0	0	0.	TONs
Beryllium	7440417	0.	0.003	0.003	TONs
Cadmium	7440439	0.	0.01	0.01	TONs
Chromium	7440473	0.	0.06	0.06	TONs
Chrysene	218019	0	0	0.	TONs
Fluoranthene	206440	0	0	0.	TONs
Fluorene	86737	0	0	0.	TONs
Formaldehyde	50000	0	0	0.	TONs
Heptachlorodibenzo-P-Dioxin, 1,2,3,4,6,7,8-	35822469	0	0	0.	TONs
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562394	0	0	0.	TONs
Hexachlorodibenzo-P-Dioxin	34465468	0	0	0.	TONs
Hexachlorodibenzo-P-Dioxin, 1,2,3,4,7,8-	39227286	0	0	0.	TONs
Hexachlorodibenzo-P-Dioxin, 1,2,3,7,8,9-	19408743	0	0	0.	TONs
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648269	0	0	0.	TONs
Hydrochloric Acid (Hydrogen Chloride)	7647010	0	293.5	293.5	TONs
Hydrogen Fluoride (Hydrofluoric Acid)	7664393	0	29.4	29.4	TONs
MN - Manganese	7439965	0.	0.0525	0.0525	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	0.02145	0.02145	TONs
Naphthalene	91203	0	0	0.	TONs
Nickel	7440020	0.	0.0565	0.0565	TONs
Octachlorodibenzo-P-Dioxin	3268879	0	0	0.	TONs
Octachlorodibenzofuran	39001020	0	0	0.	TONs
Pentachlorodibenzofuran, 1,2,3,7,8-	57117416	0	0	0.	TONs
Pentachlorodibenzofuran, 2,3,4,7,8-	57117314	0	0	0.	TONs
Phenanthrene	85018	0	0	0.	TONs
Polycyclic Organic Matter	246	0.	0.00731378	0.00731378	TONs
Pyrene	129000	0	0	0.	TONs
Selenium	7782492	0.	0.0165	0.0165	TONs
Tetrachlorodibenzofuran, 2,3,7,8-	51207319	0	0	0.	TONs
Total Heptachlorodibenzo-P-Dioxin	37871004	0	0	0.	TONs

Total Pentachlorodibenzofuran	30402154	0	0	0.	TONs
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- **Processes**

- **Process & Emissions Detail**

Name: Unit 4 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: 29

Hours Per Year: 4869

Winter (Dec - Feb)%: 29

Spring (March-May)%: 26

Summer (June-Aug)%: 42

Fall (Sept-Nov)%: 3

Material	Material Action	Throughput	X Units
Bituminous/Subbituminous Coal	Burned	256732	TONs

Variable	Amount	Meaning
A	11.73	% Ash content by weight
HCS	11870	Solid Heat Content (Btu/Lb)
S	1.05	% 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 Condensable Portion Only (All Less than 1 Micron)	PM-CON	factor:ENG JUDGEMENT	0	1.781	0.	228.62	228.62	TONs	Coal emission factors were taken from AP-42, Section 1.1, "Bituminous and Subbituminous Coal Combustion", (9/98).
SO2 - Sulfur Dioxide	SO2	X emissions: CEM			0	4492	4,492	TONs	
		X							

				(LBS/X)					
Arsenic	7440382	emissions: ENG. JUDGEMENT			0	0.053	0.053	TONs	
Beryllium	7440417	emissions: ENG. JUDGEMENT			0	0.003	0.003	TONs	
Cadmium	7440439	emissions: ENG. JUDGEMENT			0	0.01	0.01	TONs	
Chromium	7440473	emissions: ENG. JUDGEMENT			0	0.06	0.06	TONs	
Hydrochloric Acid (Hydrogen Chloride)	7647010	emissions: ENG. JUDGEMENT			0	293.5	293.5	TONs	
Hydrogen Fluoride (Hydrofluoric Acid)	7664393	emissions: ENG. JUDGEMENT			0	29.4	29.4	TONs	
MN - Manganese	7439965	emissions: ENG. JUDGEMENT			0	0.0525	0.0525	TONs	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	emissions: ENG. JUDGEMENT			0	0.02145	0.02145	TONs	
Nickel	7440020	emissions: ENG. JUDGEMENT			0	0.0565	0.0565	TONs	
Polycyclic Organic Matter	246	factor:OEP A (auto calculate)	0	5.6976E-05	0.	0.00731378	0.00731378	TONs	
Selenium	7782492	emissions: ENG. JUDGEMENT			0	0.0165	0.0165	TONs	

- Process & Emissions Detail

Name: Unit 4 Fuel Oil

Source Classification Code (SCC): 1-01-005-01

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

Schedule Trade Secret:

Hours Per Day: 24
 Days Per Week: 7
 Weeks Per Year: 29
 Hours Per Year: 4869

Winter (Dec - Feb)%: 20
 Spring (March-May)%: 28
 Summer (June-Aug)%: 42
 Fall (Sept-Nov)%: 10

Material	Material Action	Throughput	X Units
Distillate Oil	Burned	220.326	1000 GALLONS

Variable	Amount	Meaning
HCl	137386	Liquid Heat Content (Btu/gallons)
S	0.0015	% 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 Condensable Portion Only (All Less than 1 Micron)	PM-CON	factor:OEP A (auto calculate)	0	1.3	0.	0.143212	0.143212	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions:CEM			0	0	0.	TONs	Total emissions are reported in the coal section.
NOx - Nitrogen Oxides	NOX	X emissions:CEM			0	0	0.	TONs	Total emissions are reported in the coal section.
Organic Compounds	OC	X factor:OEP A (auto calculate)	0	1.04	0.	0.11457	0.11457	TONs	
Pb - Lead	7439921	X factor:OEP A (auto calculate)	0	0.00123647	0.	1.36213E-04	1.36213E-04	TONs	
PE (Filt) - Primary PM,	PM-FIL	X factor:OEP A (auto	0	2	0.	0.220326	0.220326	TONs	

Filterable Portion Only		calculate)							
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	factor:OEP A (auto calculate)	0	1	0.	0.110163	0.110163	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	factor:OEP A (auto calculate)	0	0.25	0.	0.0275408	0.0275408	TONs	
VOC - Volatile Organic Compounds	VOC	factor:OEP A (auto calculate)	0	0.2	0.	0.0220326	0.0220326	TONs	
Ammonia	NH3	factor:OEP A (auto calculate)	0	0.8	0.	0.0881304	0.0881304	TONs	
CO - Carbon Monoxide	CO	factor:OEP A (auto calculate)	0	5	0.	0.550815	0.550815	TONs	
Total of Chargable Pollutants							0.335032	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	Unit s	Explanation
Acenaphthene	83329	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Acenaphthylene	208968	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Anthracene	120127	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Arsenic	7440382	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Benz[A]Anthracene	56553	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Benzene	71432	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Benzo[A]Pyrene	50328	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Benzo[B]Fluoranthene	205992	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Beryllium	7440417	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Cadmium	7440439	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Chromium	7440473	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Chrysene	218019	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Fluoranthene	206440	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Fluorene	86737	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Formaldehyde	50000	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Heptachlorodibenzo-P-Dioxin, 1,2,3,4,6,7,8-	35822469	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562394	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Hexachlorodibenzo-P-Dioxin	34465468	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Hexachlorodibenzo-P-Dioxin, 1,2,3,4,7,8-	39227286	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Hexachlorodibenzo-P-Dioxin, 1,2,3,7,8,9-	19408743	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648269	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
MN - Manganese	7439965	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Naphthalene	91203	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Nickel	7440020	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Octachlorodibenzo-P-Dioxin	3268879	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Octachlorodibenzofuran	39001020	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Pentachlorodibenzofuran, 1,2,3,7,8-	57117416	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Pentachlorodibenzofuran, 2,3,4,7,8-	57117314	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Phenanthrene	85018	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Polycyclic	246	emissions:			0	0	0.	TONs	

Organic Matter		ENG. JUDGEMENT							
Pyrene	129000	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Selenium	7782492	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Tetrachlorodibenzofuran, 2,3,7,8-	5120731 9	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total Heptachlorodibenzop-Dioxin	3787100 4	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total Pentachlorodibenzofuran	3040215 4	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

- **Process & Emissions Detail**

Name: Unit 4 Coal2

Source Classification Code (SCC): 1-01-002-26

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

Schedule Trade Secret:

Hours Per Day: 0

Days Per Week: 0

Weeks Per Year: 0

Hours Per Year: 0

Winter (Dec - Feb)%: 25

Spring (March-May)%: 25

Summer (June-Aug)%: 25

Fall (Sept-Nov)%: 25

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

Variable	Amount	Meaning
A		% Ash content by weight
HCS		Solid Heat Content (Btu/Lb)
S		% Sulfur content by weight

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Unit s	Explanation
Total of Chargable Pollutants							0.	TONS	

Emission Unit Summary: B005

Oct 11 2011, 13:27:10

Emissions Unit ID: B005

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON		0.	978.386	978.386	TONs	
SO2 - Sulfur Dioxide	SO2	X	0.	17,719	17,719	TONs	X
NOx - Nitrogen Oxides	NOX	X	0.	2,417	2,417	TONs	X
Organic Compounds	OC	X	0.	15.8662	15.8662	TONs	
Pb - Lead	7439921	X	0.	0.0549871	0.0549871	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.	233.775	233.775	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.	156.587	156.587	TONs	X
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.	67.7594	67.7594	TONs	
VOC - Volatile Organic Compounds	VOC		0.	15.7676	15.7676	TONs	
Ammonia	NH3		0.	0.242211	0.242211	TONs	
CO - Carbon Monoxide	CO		0.	131.788	131.788	TONs	X
Total of Chargable Pollutants					20,385.7	TONs	

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Pollutant	Code	Fugitive Amount	Stack Amount	Total	Units
Acenaphthene	83329	0	0	0.	TONs
Acenaphthylene	208968	0	0	0.	TONs
Anthracene	120127	0	0	0.	TONs
Arsenic	7440382	0.	0.037	0.037	TONs
Benz[A]Anthracene	56553	0	0	0.	TONs
Benzene	71432	0	0	0.	TONs

Benzo[A]Pyrene	50328	0	0	0.	TONs
Benzo[B]Fluoranthene	205992	0	0	0.	TONs
Beryllium	7440417	0.	0.	0.	TONs
Cadmium	7440439	0.	0.008	0.008	TONs
Chromium	7440473	0.	0.046	0.046	TONs
Chrysene	218019	0	0	0.	TONs
Fluoranthene	206440	0	0	0.	TONs
Fluorene	86737	0	0	0.	TONs
Formaldehyde	50000	0	0	0.	TONs
Heptachlorodibenzo-P-Dioxin, 1,2,3,4,6,7,8-	35822469	0	0	0.	TONs
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562394	0	0	0.	TONs
Hexachlorodibenzo-P-Dioxin	34465468	0	0	0.	TONs
Hexachlorodibenzo-P-Dioxin, 1,2,3,4,7,8-	39227286	0	0	0.	TONs
Hexachlorodibenzo-P-Dioxin, 1,2,3,7,8,9-	19408743	0	0	0.	TONs
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648269	0	0	0.	TONs
Hydrochloric Acid (Hydrogen Chloride)	7647010	0	288.5	288.5	TONs
Hydrogen Fluoride (Hydrofluoric Acid)	7664393	0	28.9	28.9	TONs
MN - Manganese	7439965	0.	0.04	0.04	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	0.02165	0.02165	TONs
Naphthalene	91203	0	0	0.	TONs
Nickel	7440020	0.	0.045	0.045	TONs
Octachlorodibenzo-P-Dioxin	3268879	0	0	0.	TONs
Octachlorodibenzofuran	39001020	0	0	0.	TONs
Pentachlorodibenzofuran, 1,2,3,7,8-	57117416	0	0	0.	TONs
Pentachlorodibenzofuran, 2,3,4,7,8-	57117314	0	0	0.	TONs
Phenanthrene	85018	0	0	0.	TONs
Polycyclic Organic Matter	246	0.	0.0151483	0.0151483	TONs
Pyrene	129000	0	0	0.	TONs
Selenium	7782492	0.	0.016	0.016	TONs
Tetrachlorodibenzofuran, 2,3,7,8-	51207319	0	0	0.	TONs
Total Heptachlorodibenzo-P-Dioxin	37871004	0	0	0.	TONs

Total Pentachlorodibenzofuran	30402154	0	0	0.	TONs
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- **Processes**

- **Process & Emissions Detail**

Name: Unit 5 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: 42

Hours Per Year: 7025

Winter (Dec - Feb)%: 32

Spring (March-May)%: 24

Summer (June-Aug)%: 16

Fall (Sept-Nov)%: 28

Material	Material Action	Throughput	X Units
Bituminous/Subbituminous Coal	Burned	524803	TONs

Variable	Amount	Meaning
A	11.44	% Ash content by weight
HCS	12027	Solid Heat Content (Btu/Lb)
S	1.85	% 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 Condensable Portion Only (All Less than 1 Micron)	PM-CON	factor:ENG JUDGEMENT	0	3.728	0.	978.233	978.233	TONs	Coal emission factors were taken from AP-42, Section 1.1, "Bituminous and Subbituminous Coal Combustion", (9/98).
SO2 - Sulfur Dioxide	SO2	X emissions: CEM			0	17719	17,719	TONs	
		X							

				(LBS/X)					
Arsenic	7440382	emissions: ENG. JUDGEMENT			0	0.037	0.037	TONs	
Beryllium	7440417	emissions: ENG. JUDGEMENT			0	00	0.	TONs	
Cadmium	7440439	emissions: ENG. JUDGEMENT			0	0.008	0.008	TONs	
Chromium	7440473	emissions: ENG. JUDGEMENT			0	0.046	0.046	TONs	
Hydrochloric Acid (Hydrogen Chloride)	7647010	emissions: ENG. JUDGEMENT			0	288.5	288.5	TONs	
Hydrogen Fluoride (Hydrofluoric Acid)	7664393	emissions: ENG. JUDGEMENT			0	28.9	28.9	TONs	
MN - Manganese	7439965	emissions: ENG. JUDGEMENT			0	0.04	0.04	TONs	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	emissions: ENG. JUDGEMENT			0	0.02165	0.02165	TONs	
Nickel	7440020	emissions: ENG. JUDGEMENT			0	0.045	0.045	TONs	
Polycyclic Organic Matter	246	factor:OEP A (auto calculate)	0	5.77296E -05	0.	0.0151483	0.0151483	TONs	
Selenium	7782492	emissions: ENG. JUDGEMENT			0	0.016	0.016	TONs	

- Process & Emissions Detail

Name: Unit 5 Fuel Oil

Source Classification Code (SCC): 1-01-005-01

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

Schedule Trade Secret:

Hours Per Day: 24
 Days Per Week: 7
 Weeks Per Year: 42
 Hours Per Year: 7025

Winter (Dec - Feb)%: 11
 Spring (March-May)%: 60
 Summer (June-Aug)%: 7
 Fall (Sept-Nov)%: 22

Material	Material Action	Throughput	X Units
Distillate Oil	Burned	234.884	1000 GALLONS

Variable	Amount	Meaning
HCl	137386	Liquid Heat Content (Btu/gallons)
S	0.0015	% 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 Condensable Portion Only (All Less than 1 Micron)	PM-CON	factor:OEP A (auto calculate)	0	1.3	0.	0.152675	0.152675	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions:CEM			0	0	0.	TONs	Total emissions are reported in the coal section.
NOx - Nitrogen Oxides	NOX	X emissions:CEM			0	0	0.	TONs	Total emissions are reported in the coal section.
Organic Compounds	OC	X factor:OEP A (auto calculate)	0	1.04	0.	0.12214	0.12214	TONs	
Pb - Lead	7439921	X factor:OEP A (auto calculate)	0	0.00123647	0.	1.45214E-04	1.45214E-04	TONs	
PE (Filt) - Primary PM,	PM-FIL	X factor:OEP A (auto	0	2	0.	0.234884	0.234884	TONs	

Filterable Portion Only		calculate)							
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	factor:OEP A (auto calculate)	0	1	0.	0.117442	0.117442	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	factor:OEP A (auto calculate)	0	0.25	0.	0.0293605	0.0293605	TONs	
VOC - Volatile Organic Compounds	VOC	factor:OEP A (auto calculate)	0	0.2	0.	0.0234884	0.0234884	TONs	
Ammonia	NH3	factor:OEP A (auto calculate)	0	0.8	0.	0.0939536	0.0939536	TONs	
CO - Carbon Monoxide	CO	factor:OEP A (auto calculate)	0	5	0.	0.58721	0.58721	TONs	
Total of Chargable Pollutants							0.357169	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	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Acenaphthylene	208968	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Anthracene	120127	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Arsenic	7440382	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Benz[A]Anthracene	56553	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Benzene	71432	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Benzo[A]Pyrene	50328	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Benzo[B]Fluoranthene	205992	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Beryllium	7440417	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Cadmium	7440439	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Chromium	7440473	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Chrysene	218019	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Fluoranthene	206440	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Fluorene	86737	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Formaldehyde	50000	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Heptachlorodibenzo-P-Dioxin, 1,2,3,4,6,7,8-	35822469	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562394	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Hexachlorodibenzo-P-Dioxin	34465468	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Hexachlorodibenzo-P-Dioxin, 1,2,3,4,7,8-	39227286	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Hexachlorodibenzo-P-Dioxin, 1,2,3,7,8,9-	19408743	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648269	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
MN - Manganese	7439965	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Naphthalene	91203	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Nickel	7440020	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Octachlorodibenzo-P-Dioxin	3268879	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Octachlorodibenzofuran	39001020	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Pentachlorodibenzofuran, 1,2,3,7,8-	57117416	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Pentachlorodibenzofuran, 2,3,4,7,8-	57117314	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Phenanthrene	85018	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Polycyclic	246	emissions:			0	0	0.	TONs	

Organic Matter		ENG. JUDGEMENT							
Pyrene	129000	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Selenium	7782492	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Tetrachlorodibenzofuran, 2,3,7,8-	5120731 9	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total Heptachlorodibenzop-Dioxin	3787100 4	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total Pentachlorodibenzofuran	3040215 4	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

- **Process & Emissions Detail**

Name: Unit 5 Coal2

Source Classification Code (SCC): 1-01-002-26

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

Schedule Trade Secret:

Hours Per Day: 0

Days Per Week: 0

Weeks Per Year: 0

Hours Per Year: 0

Winter (Dec - Feb)%: 25

Spring (March-May)%: 25

Summer (June-Aug)%: 25

Fall (Sept-Nov)%: 25

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

Variable	Amount	Meaning
A		% Ash content by weight
HCS		Solid Heat Content (Btu/Lb)
S		% Sulfur content by weight

- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Total of Chargable Pollutants							0.	TONS	

Emission Unit Summary: B006

Oct 11 2011, 13:27:10

Emissions Unit ID: B006

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON		0.	2,253.95	2,253.95	TONs	
SO2 - Sulfur Dioxide	SO2	X	0.	46,945	46,945	TONs	X
NOx - Nitrogen Oxides	NOX	X	0.	4,400	4,400	TONs	X
Organic Compounds	OC	X	0.	26.4729	26.4729	TONs	
Pb - Lead	7439921	X	0.	0.0962467	0.0962467	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.	397.407	397.407	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.	266.218	266.218	TONs	X
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.	115.197	115.197	TONs	
VOC - Volatile Organic Compounds	VOC		0.	26.3484	26.3484	TONs	
Ammonia	NH3		0.	0.366457	0.366457	TONs	
CO - Carbon Monoxide	CO		0.	220.064	220.064	TONs	X
Total of Chargable Pollutants					51,769	TONs	

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Pollutant	Code	Fugitive Amount	Stack Amount	Total	Units
Acenaphthene	83329	0	0	0.	TONs
Acenaphthylene	208968	0	0	0.	TONs
Anthracene	120127	0	0	0.	TONs
Arsenic	7440382	0.	0.097	0.097	TONs
Benz[A]Anthracene	56553	0	0	0.	TONs
Benzene	71432	0	0	0.	TONs

Benzo[A]Pyrene	50328	0	0	0.	TONs
Benzo[B]Fluoranthene	205992	0	0	0.	TONs
Beryllium	7440417	0.	0.	0.	TONs
Cadmium	7440439	0.	0.0205	0.0205	TONs
Chromium	7440473	0.	0.121	0.121	TONs
Chrysene	218019	0	0	0.	TONs
Fluoranthene	206440	0	0	0.	TONs
Fluorene	86737	0	0	0.	TONs
Formaldehyde	50000	0	0	0.	TONs
Heptachlorodibenzo-P-Dioxin, 1,2,3,4,6,7,8-	35822469	0	0	0.	TONs
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562394	0	0	0.	TONs
Hexachlorodibenzo-P-Dioxin	34465468	0	0	0.	TONs
Hexachlorodibenzo-P-Dioxin, 1,2,3,4,7,8-	39227286	0	0	0.	TONs
Hexachlorodibenzo-P-Dioxin, 1,2,3,7,8,9-	19408743	0	0	0.	TONs
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648269	0	0	0.	TONs
Hydrochloric Acid (Hydrogen Chloride)	7647010	0	750	750	TONs
Hydrogen Fluoride (Hydrofluoric Acid)	7664393	0	75.5	75.5	TONs
MN - Manganese	7439965	0.	0.105	0.105	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	0.0564	0.0564	TONs
Naphthalene	91203	0	0	0.	TONs
Nickel	7440020	0.	0.118	0.118	TONs
Octachlorodibenzo-P-Dioxin	3268879	0	0	0.	TONs
Octachlorodibenzofuran	39001020	0	0	0.	TONs
Pentachlorodibenzofuran, 1,2,3,7,8-	57117416	0	0	0.	TONs
Pentachlorodibenzofuran, 2,3,4,7,8-	57117314	0	0	0.	TONs
Phenanthrene	85018	0	0	0.	TONs
Polycyclic Organic Matter	246	0.	0.0257587	0.0257587	TONs
Pyrene	129000	0	0	0.	TONs
Selenium	7782492	0.	0.0415	0.0415	TONs
Tetrachlorodibenzofuran, 2,3,7,8-	51207319	0	0	0.	TONs
Total Heptachlorodibenzo-P-Dioxin	37871004	0	0	0.	TONs

Total Pentachlorodibenzofuran	30402154	0	0	0.	TONs
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- **Processes**

- **Process & Emissions Detail**

Name: Unit 6 Coal

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

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

Schedule Trade Secret:

Hours Per Day: 24	Winter (Dec - Feb)%: 18
Days Per Week: 7	Spring (March-May)%: 27
Weeks Per Year: 42	Summer (June-Aug)%: 29
Hours Per Year: 7074	Fall (Sept-Nov)%: 26

Material	Material Action	Throughput	X Units
Bituminous/Subbituminous Coal	Burned	877291	TONs

Variable	Amount	Meaning
A	11.02	% Ash content by weight
HCS	12234	Solid Heat Content (Btu/Lb)
S	2.40	% 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 Condensable Portion Only (All Less than 1 Micron)	PM-CON	factor:ENG JUDGEMENT	0	5.138	0.	2,253.76	2,253.76	TONs	Coal emission factors were taken from AP-42, Section 1.1, "Bituminous and Subbituminous Coal Combustion", (9/98).
SO2 - Sulfur Dioxide	SO2	X emissions: CEM			0	46945	46,945	TONs	
		X							

				(LBS/X)					
Arsenic	7440382	emissions: ENG. JUDGEMENT			0	0.097	0.097	TONs	
Beryllium	7440417	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Cadmium	7440439	emissions: ENG. JUDGEMENT			0	0.0205	0.0205	TONs	
Chromium	7440473	emissions: ENG. JUDGEMENT			0	0.121	0.121	TONs	
Hydrochloric Acid (Hydrogen Chloride)	7647010	emissions: ENG. JUDGEMENT			0	750	750	TONs	
Hydrogen Fluoride (Hydrofluoric Acid)	7664393	emissions: ENG. JUDGEMENT			0	75.5	75.5	TONs	
MN - Manganese	7439965	emissions: ENG. JUDGEMENT			0	0.105	0.105	TONs	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	emissions: ENG. JUDGEMENT			0	0.0564	0.0564	TONs	
Nickel	7440020	emissions: ENG. JUDGEMENT			0	0.118	0.118	TONs	
Polycyclic Organic Matter	246	factor:OEP A (auto calculate)	0	5.87232E -05	0.	0.0257587	0.0257587	TONs	
Selenium	7782492	emissions: ENG. JUDGEMENT			0	0.0415	0.0415	TONs	

- Process & Emissions Detail

Name: Unit 6 Fuel Oil

Source Classification Code (SCC): 1-01-005-01

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

Schedule Trade Secret:

Hours Per Day: 24
 Days Per Week: 7
 Weeks Per Year: 42
 Hours Per Year: 7074

Winter (Dec - Feb): 11
 Spring (March-May): 49
 Summer (June-Aug): 9
 Fall (Sept-Nov): 31

Material	Material Action	Throughput	X Units
Distillate Oil	Burned	296.555	1000 GALLONS

Variable	Amount	Meaning
HCl	137384	Liquid Heat Content (Btu/gallons)
S	0.0015	% 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 Condensable Portion Only (All Less than 1 Micron)	PM-CON	factor:OEP A (auto calculate)	0	1.3	0.	0.192761	0.192761	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions:CEM			0	0	0.	TONs	Total emissions are reported in the coal section.
NOx - Nitrogen Oxides	NOX	X emissions:CEM			0	0	0.	TONs	Total emissions are reported in the coal section.
Organic Compounds	OC	X factor:OEP A (auto calculate)	0	1.04	0.	0.154209	0.154209	TONs	
Pb - Lead	7439921	X factor:OEP A (auto calculate)	0	0.00123646	0.	1.83339E-04	1.83339E-04	TONs	
PE (Filt) - Primary PM,	PM-FIL	X factor:OEP A (auto	0	2	0.	0.296555	0.296555	TONs	

Filterable Portion Only		calculate)							
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	factor:OEP A (auto calculate)	0	1	0.	0.148278	0.148278	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	factor:OEP A (auto calculate)	0	0.25	0.	0.0370694	0.0370694	TONs	
VOC - Volatile Organic Compounds	VOC	factor:OEP A (auto calculate)	0	0.2	0.	0.0296555	0.0296555	TONs	
Ammonia	NH3	factor:OEP A (auto calculate)	0	0.8	0.	0.118622	0.118622	TONs	
CO - Carbon Monoxide	CO	factor:OEP A (auto calculate)	0	5	0.	0.741388	0.741388	TONs	
Total of Chargable Pollutants							0.450947	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	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Acenaphthylene	208968	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Anthracene	120127	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Arsenic	7440382	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Benz[A]Anthracene	56553	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Benzene	71432	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Benzo[A]Pyrene	50328	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Benzo[B]Fluoranthene	205992	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Beryllium	7440417	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Cadmium	7440439	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Chromium	7440473	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Chrysene	218019	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Fluoranthene	206440	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Fluorene	86737	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Formaldehyde	50000	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Heptachlorodibenzo-P-Dioxin, 1,2,3,4,6,7,8-	35822469	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562394	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Hexachlorodibenzo-P-Dioxin	34465468	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Hexachlorodibenzo-P-Dioxin, 1,2,3,4,7,8-	39227286	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Hexachlorodibenzo-P-Dioxin, 1,2,3,7,8,9-	19408743	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648269	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
MN - Manganese	7439965	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Naphthalene	91203	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Nickel	7440020	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Octachlorodibenzo-P-Dioxin	3268879	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Octachlorodibenzofuran	39001020	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Pentachlorodibenzofuran, 1,2,3,7,8-	57117416	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Pentachlorodibenzofuran, 2,3,4,7,8-	57117314	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Phenanthrene	85018	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Polycyclic	246	emissions:			0	0	0.	TONs	

Organic Matter		ENG. JUDGEMENT							
Pyrene	129000	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Selenium	7782492	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Tetrachlorodibenzofuran, 2,3,7,8-	5120731 9	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total Heptachlorodibenzop-Dioxin	3787100 4	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total Pentachlorodibenzofuran	3040215 4	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

- **Process & Emissions Detail**

Name: Unit 6 Coal2

Source Classification Code (SCC): 1-01-002-26

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

Schedule Trade Secret:

Hours Per Day: 0

Days Per Week: 0

Weeks Per Year: 0

Hours Per Year: 0

Winter (Dec - Feb)%: 25

Spring (March-May)%: 25

Summer (June-Aug)%: 25

Fall (Sept-Nov)%: 25

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

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

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Unit s	Explanation
Total of Chargable Pollutants							0.	TONS	

Emission Unit Summary: B007

Oct 11 2011, 13:27:10

Emissions Unit ID: B007

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON		0.	0.0128795	0.0128795	TONs	
SO2 - Sulfur Dioxide	SO2	X	0.	0.00180675	0.00180675	TONs	
NOx - Nitrogen Oxides	NOX	X	0	0.8	0.8	TONs	
Organic Compounds	OC	X	0.	0.00715542	0.00715542	TONs	
Pb - Lead	7439921	X	0.	2.5044E-05	2.5044E-05	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.	0.00769224	0.00769224	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.	0.00769224	0.00769224	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.	0.00769224	0.00769224	TONs	
VOC - Volatile Organic Compounds	VOC		0.	7.33431E-04	7.33431E-04	TONs	
Ammonia	NH3		0.	0.0105808	0.0105808	TONs	
CO - Carbon Monoxide	CO		0.	0.00590323	0.00590323	TONs	
Total of Chargable Pollutants					0.816679	TONS	

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Pollutant	Code	Fugitive Amount	Stack Amount	Total	Units
Arsenic	7440382	0	0	0.	TONs
Benzene	71432	0	0.0005	5E-04	TONs
Benzo[A]Pyrene	50328	0.	3.31186E-09	3.31186E-09	TONs
Beryllium	7440417	0	0	0.	TONs
Butadiene, 1,3-	106990	0.	1.43108E-05	1.43108E-05	TONs
Cadmium	7440439	0	0	0.	TONs

Chromium	7440473	0	0	0.	TONs
Chrysene	218019	0.	1.98711E-08	1.98711E-08	TONs
Fluoranthene	206440	0.	1.03772E-07	1.03772E-07	TONs
Formaldehyde	50000	0	0.0025	0.0025	TONs
MN - Manganese	7439965	0	0.007	0.007	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0	0	0.	TONs
Naphthalene	91203	0	0.0005	5E-04	TONs
Nickel	7440020	0	0	0.	TONs
PAH, 16-	40	0.	7.15542E-05	7.15542E-05	TONs
Selenium	7782492	0	0	0.	TONs

- **Processes**

- **Process & Emissions Detail**

Name: CT #1 Fuel Oil

Source Classification Code (SCC): 2-01-001-01

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

Schedule Trade Secret:

Hours Per Day: 1
Days Per Week: 1
Weeks Per Year: 11
Hours Per Year: 11

Winter (Dec - Feb)%: 31
Spring (March-May)%: 3
Summer (June-Aug)%: 26
Fall (Sept-Nov)%: 40

Material	Material Action	Throughput	X Units
Distillate Oil (Diesel)	Burned	26.452	1000 GALLONS

Variable	Amount	Meaning
HCl	135253	Liquid Heat Content (Btu/gallons)
S	0.001	% 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 Condensable Portion Only (All Less than 1 Micron)	PM-CON	factor:ENG . JUDGEMENT	0	0.9738	0.	0.0128795	0.0128795	TONs	The AP-42, Section 3.1, "Stationary Gas Turbines", (4/00) emission factor, 0.0072 lbs/MMBtu, was used.
SO2 - Sulfur Dioxide	SO2	X factor:OEP A (auto calculate)	0	0.136606	0.	0.00180675	0.00180675	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: CEM			0	0.8	0.8	TONs	
Organic Compounds	OC	X factor:OEP A (auto calculate)	0	0.541012	0.	0.00715542	0.00715542	TONs	
Pb - Lead	7439921	X factor:OEP A (auto calculate)	0	0.001893 54	0.	2.5044E-05	2.5044E-05	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X factor:ENG . JUDGEMENT	0	0.5816	0.	0.00769224	0.00769224	TONs	The AP-42, Section 3.1, "Stationary Gas Turbines", (4/00) emission factor, 0.0043 lbs/MMBtu, was used.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	factor:ENG . JUDGEMENT	0	0.5816	0.	0.00769224	0.00769224	TONs	AP-42, Section 3.1, "Stationary Gas Turbines", (4/00) says all particulate from oil fired combustion turbines is considered to be PM-10. The filterable particulate emission factor, 0.0043 lbs/MMBtu, was used.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	factor:ENG . JUDGEMENT	0	0.5816	0.	0.00769224	0.00769224	TONs	AP-42, Section 3.1, "Stationary Gas Turbines", (4/00) says all particulate from oil fired combustion turbines is considered to be PM-10. For reporting purposes, assumed that the PM-2.5 emissions are equal to the PM-10 emissions. The filterable particulate emission factor, 0.0043 lbs/MMBtu, was used.
VOC - Volatile Organic Compounds	VOC	factor:OEP A (auto calculate)	0	0.055453 7	0.	7.33431E-04	7.33431E-04	TONs	
Ammonia	NH3	factor:ENG . JUDGEMENT	0	0.8	0.	0.0105808	0.0105808	TONs	Ammonia emission factor taken from "Development and Selection of Ammonia Emission Factors", USEPA, August, 1994, for oil fired boilers: 0.8 lbs/thousand gallons.
CO - Carbon Monoxide	CO	factor:OEP A (auto	0	0.446335	0.	0.00590323	0.00590323	TONs	

Formaldehyde	50000	emissions: ENG. JUDGEMENT			0	0.0025	0.0025	TONs	
MN - Manganese	7439965	emissions: ENG. JUDGEMENT			0	0.007	0.007	TONs	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Naphthalene	91203	emissions: ENG. JUDGEMENT			0	0.0005	5E-04	TONs	
Nickel	7440020	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PAH, 16-	40	factor:OEP A (auto calculate)	0	0.005410 12	0.	7.15542E-05	7.15542E-05	TONs	
Selenium	7782492	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Emission Unit Summary: B008

Oct 11 2011, 13:27:10

Emissions Unit ID: B008

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON		0.	0.0107185	0.0107185	TONs	
SO2 - Sulfur Dioxide	SO2	X	0.	0.00150356	0.00150356	TONs	
NOx - Nitrogen Oxides	NOX	X	0	0.6	0.6	TONs	
Organic Compounds	OC	X	0.	0.00595473	0.00595473	TONs	
Pb - Lead	7439921	X	0.	2.08416E-05	2.08416E-05	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.	0.00640142	0.00640142	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.	0.00640142	0.00640142	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.	0.00640142	0.00640142	TONs	
VOC - Volatile Organic Compounds	VOC		0.	6.1036E-04	6.1036E-04	TONs	
Ammonia	NH3		0.	0.0087992	0.0087992	TONs	
CO - Carbon Monoxide	CO		0.	0.00491265	0.00491265	TONs	
Total of Chargable Pollutants					0.613881	TONS	

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Pollutant	Code	Fugitive Amount	Stack Amount	Total	Units
Arsenic	7440382	0	0	0.	TONs
Benzene	71432	0	0.0005	5E-04	TONs
Benzo[A]Pyrene	50328	0.	2.7542E-09	2.7542E-09	TONs
Beryllium	7440417	0	0	0.	TONs
Butadiene, 1,3-	106990	0.	1.19095E-05	1.19095E-05	TONs
Cadmium	7440439	0	0	0.	TONs

Chromium	7440473	0	0	0.	TONs
Chrysene	218019	0.	1.65252E-08	1.65252E-08	TONs
Fluoranthene	206440	0.	8.62984E-08	8.62984E-08	TONs
Formaldehyde	50000	0	0.002	0.002	TONs
MN - Manganese	7439965	0	0.006	0.006	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0	0	0.	TONs
Naphthalene	91203	0	0.0005	5E-04	TONs
Nickel	7440020	0	0	0.	TONs
PAH, 16-	40	0.	5.95473E-05	5.95473E-05	TONs
Selenium	7782492	0	0	0.	TONs

- **Processes**

- **Process & Emissions Detail**

Name: CT #2 Fuel Oil

Source Classification Code (SCC): 2-01-001-01

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

Schedule Trade Secret:

Hours Per Day: 1
Days Per Week: 1
Weeks Per Year: 10
Hours Per Year: 10

Winter (Dec - Feb)%: 39
Spring (March-May)%: 1
Summer (June-Aug)%: 23
Fall (Sept-Nov)%: 37

Material	Material Action	Throughput	X Units
Distillate Oil (Diesel)	Burned	21.998	1000 GALLONS

Variable	Amount	Meaning
HCl	135347	Liquid Heat Content (Btu/gallons)
S	0.001	% 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 Condensable Portion Only (All Less than 1 Micron)	PM-CON	factor:ENG . JUDGEMENT	0	0.9745	0.	0.0107185	0.0107185	TONs	The AP-42, Section 3.1, "Stationary Gas Turbines", (4/00) emission factor, 0.0072 lbs/MMBtu, was used.
SO2 - Sulfur Dioxide	SO2	X factor:OEP A (auto calculate)	0	0.1367	0.	0.00150356	0.00150356	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: CEM			0	0.6	0.6	TONs	
Organic Compounds	OC	X factor:OEP A (auto calculate)	0	0.541388	0.	0.00595473	0.00595473	TONs	
Pb - Lead	7439921	X factor:OEP A (auto calculate)	0	0.001894 86	0.	2.08416E-05	2.08416E-05	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X factor:ENG . JUDGEMENT	0	0.582	0.	0.00640142	0.00640142	TONs	The AP-42, Section 3.1, "Stationary Gas Turbines", (4/00) emission factor, 0.0043 lbs/MMBtu, was used.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	factor:ENG . JUDGEMENT	0	0.582	0.	0.00640142	0.00640142	TONs	AP-42, Section 3.1, "Stationary Gas Turbines", (4/00) says all particulate from oil fired combustion turbines is considered to be PM-10. The filterable particulate emission factor, 0.0043 lbs/MMBtu, was used.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	factor:ENG . JUDGEMENT	0	0.582	0.	0.00640142	0.00640142	TONs	AP-42, Section 3.1, "Stationary Gas Turbines", (4/00) says all particulate from oil fired combustion turbines is considered to be PM-10. For reporting purposes, assumed that the PM-2.5 emissions are equal to the PM-10 emissions. The filterable particulate emission factor, 0.0043 lbs/MMBtu, was used.
VOC - Volatile Organic Compounds	VOC	factor:OEP A (auto calculate)	0	0.055492 3	0.	6.1036E-04	6.1036E-04	TONs	
Ammonia	NH3	factor:ENG . JUDGEMENT	0	0.8	0.	0.0087992	0.0087992	TONs	Ammonia emission factor taken from "Development and Selection of Ammonia Emission Factors", USEPA, August, 1994, for oil fired boilers: 0.8 lbs/thousand gallons.
CO - Carbon Monoxide	CO	factor:OEP A (auto	0	0.446645	0.	0.00491265	0.00491265	TONs	

Formaldehyde	50000	emissions: ENG. JUDGEMENT			0	0.002	0.002	TONs	
MN - Manganese	7439965	emissions: ENG. JUDGEMENT			0	0.006	0.006	TONs	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Naphthalene	91203	emissions: ENG. JUDGEMENT			0	0.0005	5E-04	TONs	
Nickel	7440020	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PAH, 16-	40	factor:OEP A (auto calculate)	0	0.005413 88	0.	5.95473E-05	5.95473E-05	TONs	
Selenium	7782492	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Emission Unit Summary: B009

Oct 11 2011, 13:27:10

Emissions Unit ID: B009

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON		0.	0.00246779	0.00246779	TONs	
SO2 - Sulfur Dioxide	SO2	X	0.	3.46161E-04	3.46161E-04	TONs	
NOx - Nitrogen Oxides	NOX	X	0	0.2	0.2	TONs	
Organic Compounds	OC	X	0.	0.00137094	0.00137094	TONs	
Pb - Lead	7439921	X	0.	4.7983E-06	4.7983E-06	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.	0.00147379	0.00147379	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.	0.00147379	0.00147379	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.	0.00147379	0.00147379	TONs	
VOC - Volatile Organic Compounds	VOC		0.	1.40521E-04	1.40521E-04	TONs	
Ammonia	NH3		0.	0.0020096	0.0020096	TONs	
CO - Carbon Monoxide	CO		0.	0.00113103	0.00113103	TONs	
Total of Chargable Pollutants					0.203196	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
Arsenic	7440382	0	0	0.	TONs
Benzene	71432	0	0	0.	TONs
Benzo[A]Pyrene	50328	0.	6.29017E-10	6.29017E-10	TONs
Beryllium	7440417	0	0	0.	TONs
Butadiene, 1,3-	106990	0.	2.74187E-06	2.74187E-06	TONs
Cadmium	7440439	0	0	0.	TONs

Chromium	7440473	0	0	0.	TONs
Chrysene	218019	0.	3.7741E-09	3.7741E-09	TONs
Fluoranthene	206440	0.	1.97092E-08	1.97092E-08	TONs
Formaldehyde	50000	0	0	0.	TONs
MN - Manganese	7439965	0	0	0.	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0	0	0.	TONs
Naphthalene	91203	0	0	0.	TONs
Nickel	7440020	0	0	0.	TONs
PAH, 16-	40	0.	1.37094E-05	1.37094E-05	TONs
Selenium	7782492	0	0	0.	TONs

- **Processes**

- **Process & Emissions Detail**

Name: CT #3 Fuel Oil

Source Classification Code (SCC): 2-01-001-01

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

Schedule Trade Secret:

Hours Per Day: 1
Days Per Week: 1
Weeks Per Year: 6
Hours Per Year: 6

Winter (Dec - Feb)%: 4
Spring (March-May)%: 1
Summer (June-Aug)%: 95
Fall (Sept-Nov)%: 0

Material	Material Action	Throughput	X Units
Distillate Oil (Diesel)	Burned	5.024	1000 GALLONS

Variable	Amount	Meaning
HCl	136439	Liquid Heat Content (Btu/gallons)
S	0.001	% 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 Condensable Portion Only (All Less than 1 Micron)	PM-CON	factor:ENG . JUDGEMENT	0	0.9824	0.	0.00246779	0.00246779	TONs	The AP-42, Section 3.1, "Stationary Gas Turbines", (4/00) emission factor, 0.0072 lbs/MMBtu, was used.
SO2 - Sulfur Dioxide	SO2	X factor:OEP A (auto calculate)	0	0.137803	0.	3.46161E-04	3.46161E-04	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: CEM			0	0.2	0.2	TONs	
Organic Compounds	OC	X factor:OEP A (auto calculate)	0	0.545756	0.	0.00137094	0.00137094	TONs	
Pb - Lead	7439921	X factor:OEP A (auto calculate)	0	0.001910 15	0.	4.7983E-06	4.7983E-06	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X factor:ENG . JUDGEMENT	0	0.5867	0.	0.00147379	0.00147379	TONs	The AP-42, Section 3.1, "Stationary Gas Turbines", (4/00) emission factor, 0.0043 lbs/MMBtu, was used.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	factor:ENG . JUDGEMENT	0	0.5867	0.	0.00147379	0.00147379	TONs	AP-42, Section 3.1, "Stationary Gas Turbines", (4/00) says all particulate from oil fired combustion turbines is considered to be PM-10. The filterable particulate emission factor, 0.0043 lbs/MMBtu, was used.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	factor:ENG . JUDGEMENT	0	0.5867	0.	0.00147379	0.00147379	TONs	AP-42, Section 3.1, "Stationary Gas Turbines", (4/00) says all particulate from oil fired combustion turbines is considered to be PM-10. For reporting purposes, assumed that the PM-2.5 emissions are equal to the PM-10 emissions. The filterable particulate emission factor, 0.0043 lbs/MMBtu, was used.
VOC - Volatile Organic Compounds	VOC	factor:OEP A (auto calculate)	0	0.05594	0.	1.40521E-04	1.40521E-04	TONs	
Ammonia	NH3	factor:ENG . JUDGEMENT	0	0.8	0.	0.0020096	0.0020096	TONs	Ammonia emission factor taken from "Development and Selection of Ammonia Emission Factors", USEPA, August, 1994, for oil fired boilers: 0.8 lbs/thousand gallons.
CO - Carbon Monoxide	CO	factor:OEP A (auto	0	0.450249	0.	0.00113103	0.00113103	TONs	

		calculate)							
Total of Chargable Pollutants							0.203196	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
Arsenic	7440382	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Benzene	71432	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Benzo[A]Pyrene	50328	factor:OEP A (auto calculate)	0	2.50405E -07	0.	6.29017E-10	6.29017E-10	TONs	
Beryllium	7440417	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Butadiene, 1,3-	106990	factor:OEP A (auto calculate)	0	0.001091 51	0.	2.74187E-06	2.74187E-06	TONs	
Cadmium	7440439	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Chromium	7440473	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Chrysene	218019	factor:OEP A (auto calculate)	0	1.50243E -06	0.	3.7741E-09	3.7741E-09	TONs	
Fluoranthene	206440	factor:OEP A (auto calculate)	0	7.84602E -06	0.	1.97092E-08	1.97092E-08	TONs	

Formaldehyde	50000	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
MN - Manganese	7439965	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Naphthalene	91203	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Nickel	7440020	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PAH, 16-	40	factor:OEP A (auto calculate)	0	0.005457 56	0.	1.37094E-05	1.37094E-05	TONs	
Selenium	7782492	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Chromium	7440473	0	0	0.	TONs
Chrysene	218019	0.	7.08696E-09	7.08696E-09	TONs
Fluoranthene	206440	0.	3.70097E-08	3.70097E-08	TONs
Formaldehyde	50000	0	0	0.	TONs
MN - Manganese	7439965	0	0.0005	5E-04	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0	0	0.	TONs
Naphthalene	91203	0	0	0.	TONs
Nickel	7440020	0	0	0.	TONs
PAH, 16-	40	0.	2.57433E-05	2.57433E-05	TONs
Selenium	7782492	0	0	0.	TONs

- **Processes**

- **Process & Emissions Detail**

Name: CT #4 Fuel Oil

Source Classification Code (SCC): 2-01-001-01

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

Schedule Trade Secret:

Hours Per Day: 1

Days Per Week: 1

Weeks Per Year: 2

Hours Per Year: 2

Winter (Dec - Feb)%: 3

Spring (March-May)%: 2

Summer (June-Aug)%: 95

Fall (Sept-Nov)%: 0

Material	Material Action	Throughput	X Units
Distillate Oil (Diesel)	Burned	9.434	1000 GALLONS

Variable	Amount	Meaning
HCl	136439	Liquid Heat Content (Btu/gallons)
S	0.001	% Sulfur content by weight

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont .	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Unit s	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	factor:ENG . JUDGEMENT	0	0.9824	0.	0.00463398	0.00463398	TONs	The AP-42, Section 3.1, "Stationary Gas Turbines", (4/00) emission factor, 0.0072 lbs/MMBtu, was used.
SO2 - Sulfur Dioxide	SO2	X factor:OEP A (auto calculate)	0	0.137803	0.	6.50017E-04	6.50017E-04	TONs	
NOx - Nitrogen Oxides	NOX	X emissions:CEM			0	0.3	0.3	TONs	
Organic Compounds	OC	X factor:OEP A (auto calculate)	0	0.545756	0.	0.00257433	0.00257433	TONs	
Pb - Lead	7439921	X factor:OEP A (auto calculate)	0	0.00191015	0.	9.01018E-06	9.01018E-06	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X factor:ENG . JUDGEMENT	0	0.5867	0.	0.00276746	0.00276746	TONs	The AP-42, Section 3.1, "Stationary Gas Turbines", (4/00) emission factor, 0.0043 lbs/MMBtu, was used.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	factor:ENG . JUDGEMENT	0	0.5867	0.	0.00276746	0.00276746	TONs	AP-42, Section 3.1, "Stationary Gas Turbines", (4/00) says all particulate from oil fired combustion turbines is considered to be PM-10. The filterable particulate emission factor, 0.0043 lbs/MMBtu, was used.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	factor:ENG . JUDGEMENT	0	0.5867	0.	0.00276746	0.00276746	TONs	AP-42, Section 3.1, "Stationary Gas Turbines", (4/00) says all particulate from oil fired combustion turbines is considered to be PM-10. For reporting purposes, assumed that the PM-2.5 emissions are equal to the PM-10 emissions. The filterable particulate emission factor, 0.0043 lbs/MMBtu, was used.
VOC - Volatile Organic Compounds	VOC	factor:OEP A (auto calculate)	0	0.05594	0.	2.63869E-04	2.63869E-04	TONs	
Ammonia	NH3	factor:ENG . JUDGEMENT	0	0.8	0.	0.0037736	0.0037736	TONs	Ammonia emission factor taken from "Development and Selection of Ammonia Emission Factors", USEPA, August, 1994, for oil fired boilers: 0.8 lbs/thousand gallons.
CO - Carbon Monoxide	CO	factor:OEP A (auto	0	0.450249	0.	0.00212382	0.00212382	TONs	

Formaldehyde	50000	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
MN - Manganese	7439965	emissions: ENG. JUDGEMENT			0	0.0005	5E-04	TONs	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Naphthalene	91203	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Nickel	7440020	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PAH, 16-	40	factor:OEP A (auto calculate)	0	0.005457 56	0.	2.57433E-05	2.57433E-05	TONs	
Selenium	7782492	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Emission Unit Summary: F001

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Emissions Unit ID: F001

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensable 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	9.07	0.2	9.27	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		1.97	0.1	2.07	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.32	0.02	0.34	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					9.27	TONS	

- Processes

- Process & Emissions Detail

Name: Coal Unloading

Source Classification Code (SCC): 3-05-101-03

- 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
Material	Processed	1736689	TONs

- Process Emissions

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Pb - Lead	7439921	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X emissions: ENG. JUDGEMENT			9.07	0.2	9.27	TONs	Please see the attached calculations.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	emissions: ENG. JUDGEMENT			1.97	0.1	2.07	TONs	Please see the attached calculations.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	emissions: ENG. JUDGEMENT			0.32	0.02	0.34	TONs	Please see the attached calculations.
VOC - Volatile Organic Compounds	VOC	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Ammonia	NH3	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants							9.27	TONS	

Emission Unit Summary: F002

Oct 11 2011, 13:27:10

Emissions Unit ID: F002

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensable 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	9.59	0.	9.59	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		3.27	0.	3.27	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.47	0.	0.47	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					9.59	TONs	

- Processes

- Process & Emissions Detail

Name: Coal Transport

Source Classification Code (SCC): 3-05-010-24

- 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
Vehicle	Travelled	4328	MILES

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Pb - Lead	7439921	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X emissions: ENG. JUDGEMENT			5.62	0	5.62	TONs	Please see the attached calculations.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	emissions: ENG. JUDGEMENT			1.34	0	1.34	TONs	Please see the attached calculations.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	emissions: ENG. JUDGEMENT			0.20	0	0.2	TONs	Please see the attached calculations.
VOC - Volatile Organic Compounds	VOC	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Ammonia	NH3	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants							5.62	TONS	

- **Process & Emissions Detail**

Name: Coal Wind Erosion

Source Classification Code (SCC): 3-05-010-49

- **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
Exposed Area	Existing	8	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 Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	

NOx - Nitrogen Oxides	NOX	X	emissions: MAT. BALANCE			0	0	0.	TONs	
Organic Compounds	OC	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Pb - Lead	7439921	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: ENG. JUDGEMENT			1.43	0	1.43	TONs	Please see the attached calculations.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0.72	0	0.72	TONs	Please see the attached calculations.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0.11	0	0.11	TONs	Please see the attached calculations.
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants								1.43	TONS	

- **Process & Emissions Detail**

Name: Load-In Reclaim Coal

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

- **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	84630	TONs

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Pb - Lead	7439921	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X emissions: ENG. JUDGEMENT			2.54	0	2.54	TONs	Please see the attached calculations.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	emissions: ENG. JUDGEMENT			1.21	0	1.21	TONs	Please see the attached calculations.
PM2.5 (FIL) - Primary PM2.5,	PM25-FIL	emissions: ENG.			0.16	0	0.16	TONs	Please see the attached calculations.

Filterable Portion Only		JUDGEMENT							
VOC - Volatile Organic Compounds	VOC	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Ammonia	NH3	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants							2.54	TONS	

Emission Unit Summary: F003

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Emissions Unit ID: F003

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensable 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	16.32	0	16.32	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		5.25	0	5.25	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.81	0	0.81	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					16.32	TONS	

- Processes

- Process & Emissions Detail

Name: Plant Roads

Source Classification Code (SCC): 3-05-010-50

- 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
Vehicle	Travelled	9078	MILES

- Process Emissions

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Pb - Lead	7439921	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X emissions: ENG. JUDGEMENT			16.32	0	16.32	TONs	Please see the attached calculations.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	emissions: ENG. JUDGEMENT			5.25	0	5.25	TONs	Please see the attached calculations.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	emissions: ENG. JUDGEMENT			0.81	0	0.81	TONs	Please see the attached calculations.
VOC - Volatile Organic Compounds	VOC	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Ammonia	NH3	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants							16.32	TONS	

Emission Unit Summary: F004

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Emissions Unit ID: F004

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensable 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	0.02	0	0.02	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.01	0	0.01	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.01	0	0.01	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					0.02	TONS	

- Processes

- Process & Emissions Detail

Name: Dry Fly Ash Handling

Source Classification Code (SCC): 3-05-025-06

- 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
Product	Produced	30737	TONs

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Pb - Lead	7439921	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X emissions: ENG. JUDGEMENT			0.02	0	0.02	TONs	Please see the attached calculations.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	emissions: ENG. JUDGEMENT			0.01	0	0.01	TONs	Please see the attached calculations.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	emissions: ENG. JUDGEMENT			0.01	0	0.01	TONs	Please see the attached calculations.
VOC - Volatile Organic Compounds	VOC	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Ammonia	NH3	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants							0.02	TONS	

Emission Unit Summary: F005

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Emissions Unit ID: F005

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensable 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	4.52	0.	4.52	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		2.26	0.	2.26	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.31	0.	0.31	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					4.52	TONS	

- Processes

- Process & Emissions Detail

Name: Ash Pond Truck Load

Source Classification Code (SCC): 3-05-025-06

- 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
Product	Produced	269429	TONs

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Pb - Lead	7439921	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X emissions: ENG. JUDGEMENT			0.94	0	0.94	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	emissions: ENG. JUDGEMENT			0.46	0	0.46	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	emissions: ENG. JUDGEMENT			0.04	0	0.04	TONs	
VOC - Volatile Organic Compounds	VOC	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Ammonia	NH3	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants							0.94	TONS	

- **Process & Emissions Detail**

Name: Ash Pond Wind Erosn

Source Classification Code (SCC): 3-05-010-49

- **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
Exposed Area	Existing	21	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 Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	

NOx - Nitrogen Oxides	NOX	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Pb - Lead	7439921	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: ENG. JUDGEMENT			3.58	0	3.58	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			1.80	0	1.8	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0.27	0	0.27	TONs	
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants								3.58	TONS	

Emission Unit Summary: F006

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Emissions Unit ID: F006

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
Total of Chargable Pollutants					0.	TONS	

- Processes

- Process & Emissions Detail

Name: Pond Run Landfill

Source Classification Code (SCC): 3-05-888-01

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 0

Winter (Dec - Feb)%: 25

Days Per Week: 0

Spring (March-May)%: 25

Weeks Per Year: 0

Summer (June-Aug)%: 25

Hours Per Year: 0

Fall (Sept-Nov)%: 25

Material	Material Action	Throughput	X Units
Product	Produced	0	TONS

- Process Emissions

Pollutant	Code	\$	Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Total of Chargable Pollutants								0.	TONS	