

TV FER/EIS/ES Emissions Report (202034) for 2010
Duke Energy Indiana, Madison Generating Station
1409000896
April 15, 2011

2010 Emissions Summary Report : 202034

Oct 11 2011, 11:22:44

- Report Data

Report Category: TV

Submitted Date: 04/15/2011

Reporting Year: 2010

Approved Date 04/18/2011

Reporting State Approved

- Reports Included

FER: X

ES: X

EIS: X

- Facility Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON		0.	6.5	6.5	TONs
SO2 - Sulfur Dioxide	SO2	X	0.	0.72	0.72	TONs
NOx - Nitrogen Oxides	NOX	X	0.	38.25	38.25	TONs
Organic Compounds	OC	X	0.	15.3008	15.3008	TONs
Pb - Lead	7439921	X	0.	0.	0.	TONs
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.	2.72	2.72	TONs
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.	2.7	2.7	TONs
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.	2.7	2.7	TONs
VOC - Volatile Organic Compounds	VOC		0.	4.66	4.66	TONs
Ammonia	NH3		0.	8.9684	8.9684	TONs
CO - Carbon Monoxide	CO		0.	13.02	13.02	TONs
Total of Chargable Pollutants					56.9908	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.	1.01369E-06	1.01369E-06	TONs
Acenaphthylene	208968	0.	3.61216E-06	3.61216E-06	TONs

Acetaldehyde	75070	0.	0.0562616	0.0562616	TONs
Acrolein	107028	0.	0.00889267	0.00889267	TONs
Anthracene	120127	0.	2.66986E-06	2.66986E-06	TONs
Benz[A]Anthracene	56553	0.	0.0041375	0.0041375	TONs
Benzene	71432	0.	0.0179042	0.0179042	TONs
Benzo[A]Pyrene	50328	0.	3.06248E-07	3.06248E-07	TONs
Benzo[B]Fluoranthene	205992	0.	7.07439E-08	7.07439E-08	TONs
Benzo[G,H,I,]Perylene	191242	0.	3.49079E-07	3.49079E-07	TONs
Benzo[K]Fluoranthene	207089	0.	1.10649E-07	1.10649E-07	TONs
Butadiene, 1,3-	106990	0.	3.24432E-04	3.24432E-04	TONs
Cadmium	7440439	0.	0.00955069	0.00955069	TONs
Chromium	7440473	0.	0.018329	0.018329	TONs
Chrysene	218019	0.	1.25976E-07	1.25976E-07	TONs
Dibenzo[A,H]Anthracene	53703	0.	4.16183E-07	4.16183E-07	TONs
Ethyl Benzene	100414	0.	0.0441654	0.0441654	TONs
Fluoranthene	206440	0.	0.00165637	0.00165637	TONs
Fluorene	86737	0.	4.16897E-05	4.16897E-05	TONs
Formaldehyde	50000	0.	0.979901	0.979901	TONs
Indeno[1,2,3-C,D]Pyrene	193395	0.	2.67699E-07	2.67699E-07	TONs
MN - Manganese	7439965	0.	0.110609	0.110609	TONs
Mercury & Compounds	199	0.	0.	0.	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	0.00914427	0.00914427	TONs
Naphthalene	91203	0.	0.00192833	0.00192833	TONs
Nickel	7440020	0.	0.15819	0.15819	TONs
PAH, 16-	40	0.	0.00327401	0.00327401	TONs
Phenanthrene	85018	0.	4.19752E-05	4.19752E-05	TONs
Phenol	108952	0.	0.0175153	0.0175153	TONs
Propylene Oxide	75569	0.	0.0199978	0.0199978	TONs
Pyrene	129000	0.	6.82454E-06	6.82454E-06	TONs
Toluene	108883	0.	0.179696	0.179696	TONs
Xylenes (Isomers and Mixture)	1330207	0.	0.0883382	0.0883382	TONs

- **Attachments**

Description	Type	Public Document	Trade Secret Document	Trade secret Justification
F009 - No. 1 Diesel Generator Emissions	Calculations	X		
F010 - No. 2 Diesel Generator Emissions	Calculations	X		
Madison Generating Station P001-P008 Emission Calculations	Calculations	X		
2010 Madison Generating Station EIS Data	Calculations	X		

- **Notes**

User Name	Date	Note

Emission Units Without Detailed Emissions

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Emission Unit	Why Excluded	Company Equipment ID
F001	Exemption Status = De minimis	Roads & Parking
L001	Exemption Status = De minimis	Parts Washer
P011	Exemption Status = Permit Exempt	Fire Pump
Z002	Exemption Status = Permit Exempt; TV Classification = Trivial	Lube & Oil Tanks
Z006	Exemption Status = De minimis; TV Classification = Trivial	Maintenance Welding

Report Pollutant Summary: Total Emissions (Tons)

Unit	SCC Id	PM-CON	SO2	NOX	OC	7439921	PM-FIL	PM10-FIL	PM25-FIL	VOC	NH3	CO
P001	2-01-001-01											
P001	2-01-002-01	1.21	0.	5.5	2.83073	0.	0.49	0.49	0.49	0.83	1.67	1.33
P002	2-01-001-01											
P002	2-01-002-01	0.84	0.	4.9	1.96401	0.	0.34	0.34	0.34	0.56	1.16	1.29
P003	2-01-001-01											
P003	2-01-002-01	0.78	0.	4.3	1.82759	0.	0.32	0.32	0.32	0.54	1.08	0.82
P004	2-01-001-01											

P004	2-01-002-01	0.65	0.	3.4	1.53292	0.	0.26	0.26	0.26	0.5	0.91	2.05
P005	2-01-001-01											
P005	2-01-002-01	0.81	0.	4.2	1.90203	0.	0.33	0.33	0.33	0.57	1.12	1.55
P006	2-01-001-01											
P006	2-01-002-01	0.66	0.	3.3	1.54924	0.	0.27	0.27	0.27	0.45	0.92	1.15
P007	2-01-001-01											
P007	2-01-002-01	0.72	0.	3.8	1.67861	0.	0.29	0.29	0.29	0.52	0.99	2.55
P008	2-01-001-01											
P008	2-01-002-01	0.81	0.	4.3	1.88565	0.	0.33	0.33	0.33	0.56	1.11	1.07
P009	2-01-001-02	0.01	0.34	2.13	0.06	0.	0.04	0.03	0.03	0.06	0.0039344	0.57
P010	2-01-001-02	0.01	0.38	2.42	0.07	0.	0.05	0.04	0.04	0.07	0.004464	0.64
Total		6.5	0.72	38.25	15.3008	0.	2.72	2.7	2.7	4.66	8.9684	13.02

Emission Unit Summary: P001

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Emissions Unit ID: P001

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	1.21	1.21	TONs	
SO2 - Sulfur Dioxide	SO2	X	0	0.0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X	0	5.5	5.5	TONs	
Organic Compounds	OC	X	0.	2.83073	2.83073	TONs	
Pb - Lead	7439921	X	0	0.0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0	0.49	0.49	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0	0.49	0.49	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0	0.49	0.49	TONs	
VOC - Volatile Organic Compounds	VOC		0	0.83	0.83	TONs	
Ammonia	NH3		0	1.67	1.67	TONs	
CO - Carbon Monoxide	CO		0	1.33	1.33	TONs	
Total of Chargable Pollutants					8.82073	TONS	

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Pollutant	Code	Fugitive Amount	Stack Amount	Total	Units
Acetaldehyde	75070	0.	0.0102936	0.0102936	TONs
Acrolein	107028	0.	0.00164697	0.00164697	TONs
Benz[A]Anthracene	56553	0.	7.72017E-04	7.72017E-04	TONs
Benzene	71432	0.	0.00308807	0.00308807	TONs
Butadiene, 1,3-	106990	0.	5.53279E-05	5.53279E-05	TONs
Cadmium	7440439	0.	0.00178207	0.00178207	TONs

Chromium	7440473	0.	0.00342003	0.00342003	TONs
Ethyl Benzene	100414	0.	0.00823484	0.00823484	TONs
Fluoranthene	206440	0.	3.08807E-04	3.08807E-04	TONs
Formaldehyde	50000	0.	0.182711	0.182711	TONs
MN - Manganese	7439965	0.	0.0206386	0.0206386	TONs
Mercury & Compounds	199	0	0	0.	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	0.00170616	0.00170616	TONs
Naphthalene	91203	0.	3.34541E-04	3.34541E-04	TONs
Nickel	7440020	0.	0.0295168	0.0295168	TONs
PAH, 16-	40	0.	5.66145E-04	5.66145E-04	TONs
Phenol	108952	0.	0.0032682	0.0032682	TONs
Propylene Oxide	75569	0.	0.00373141	0.00373141	TONs
Toluene	108883	0.	0.0334541	0.0334541	TONs
Xylenes (Isomers and Mixture)	1330207	0.	0.0164697	0.0164697	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: 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 (Diesel)	Burned	0	1000 GALLONS

Variable	Amount	Meaning

HCl		Liquid Heat Content (Btu/gallons)
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	

- **Process & Emissions Detail**

Name: CT #1 Natural Gas

Source Classification Code (SCC): 2-01-002-01

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

Schedule Trade Secret:

Hours Per Day: 4

Days Per Week: 4

Weeks Per Year: 42

Hours Per Year: 665

Winter (Dec - Feb): 26

Spring (March-May): 24

Summer (June-Aug): 37

Fall (Sept-Nov): 13

Material	Material Action	Throughput	X Units
Natural Gas	Burned	511.10	MILLION CUBIC FEET

Variable	Amount	Meaning
HCg	1007	Gas Heat Content (Btu/Cubic Feet)
S	0	% 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) -	PM-CON	emissions:			0	1.21	1.21	TONS	The combustion turbine manufacturer provided emission factor

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
Acetaldehyde	75070	factor:OEP A (auto calculate)	665	0.04028	0.	0.0102936	0.0102936	TONs	
Acrolein	107028	factor:OEP A (auto calculate)	0	0.0064448	0.	0.00164697	0.00164697	TONs	
Benz[A]Anthracene	56553	factor:OEP A (auto calculate)	0	0.003021	0.	7.72017E-04	7.72017E-04	TONs	
Benzene	71432	factor:OEP A (auto calculate)	0	0.012084	0.	0.00308807	0.00308807	TONs	
Butadiene, 1,3-	106990	factor:OEP A (auto calculate)	0	2.16505E-04	0.	5.53279E-05	5.53279E-05	TONs	
Cadmium	7440439	factor:OEP A (auto calculate)	0	0.00697348	0.	0.00178207	0.00178207	TONs	
Chromium	7440473	factor:OEP A (auto calculate)	0	0.013383	0.	0.00342003	0.00342003	TONs	
Ethyl Benzene	100414	factor:OEP A (auto calculate)	0	0.032224	0.	0.00823484	0.00823484	TONs	
Fluoranthene	206440	factor:OEP A (auto calculate)	0	0.0012084	0.	3.08807E-04	3.08807E-04	TONs	
Formaldehyde	50000	factor:OEP A (auto calculate)	0	0.71497	0.	0.182711	0.182711	TONs	
MN - Manganese	7439965	factor:OEP A (auto calculate)	0	0.0807614	0.	0.0206386	0.0206386	TONs	
Mercury & Compounds	199	emissions:ENG.			0	0	0.	TONs	The combustion turbine manufacturer reported that emissions are zero when firing natural gas.

		JUDGEMENT							
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	factor:OEP A (auto calculate)	0	0.006676 41	0.	0.00170616	0.00170616	TONs	
Naphthalene	91203	factor:OEP A (auto calculate)	0	0.001309 1	0.	3.34541E-04	3.34541E-04	TONs	
Nickel	7440020	factor:OEP A (auto calculate)	0	0.115503	0.	0.0295168	0.0295168	TONs	
PAH, 16-	40	factor:OEP A (auto calculate)	0	0.002215 4	0.	5.66145E-04	5.66145E-04	TONs	
Phenol	108952	factor:OEP A (auto calculate)	0	0.012788 9	0.	0.0032682	0.0032682	TONs	
Propylene Oxide	75569	factor:OEP A (auto calculate)	0	0.014601 5	0.	0.00373141	0.00373141	TONs	
Toluene	108883	factor:OEP A (auto calculate)	0	0.13091	0.	0.0334541	0.0334541	TONs	
Xylenes (Isomers and Mixture)	1330207	factor:OEP A (auto calculate)	0	0.064448	0.	0.0164697	0.0164697	TONs	

Emission Unit Summary: P002

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Emissions Unit ID: P002

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	0.84	0.84	TONs	
SO2 - Sulfur Dioxide	SO2	X	0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X	0	4.9	4.9	TONs	
Organic Compounds	OC	X	0.	1.96401	1.96401	TONs	
Pb - Lead	7439921	X	0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0	0.34	0.34	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0	0.34	0.34	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0	0.34	0.34	TONs	
VOC - Volatile Organic Compounds	VOC		0	0.56	0.56	TONs	
Ammonia	NH3		0	1.16	1.16	TONs	
CO - Carbon Monoxide	CO		0	1.29	1.29	TONs	
Total of Chargable Pollutants					7.20401	TONS	

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Pollutant	Code	Fugitive Amount	Stack Amount	Total	Units
Acetaldehyde	75070	0.	0.00714185	0.00714185	TONs
Acrolein	107028	0.	0.0011427	0.0011427	TONs
Benz[A]Anthracene	56553	0.	5.35638E-04	5.35638E-04	TONs
Benzene	71432	0.	0.00214255	0.00214255	TONs
Butadiene, 1,3-	106990	0.	3.83874E-05	3.83874E-05	TONs
Cadmium	7440439	0.	0.00123643	0.00123643	TONs

Chromium	7440473	0.	0.00237287	0.00237287	TONs
Ethyl Benzene	100414	0.	0.00571348	0.00571348	TONs
Fluoranthene	206440	0.	2.14255E-04	2.14255E-04	TONs
Formaldehyde	50000	0.	0.126768	0.126768	TONs
MN - Manganese	7439965	0.	0.0143194	0.0143194	TONs
Mercury & Compounds	199	0	0	0.	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	0.00118376	0.00118376	TONs
Naphthalene	91203	0.	2.3211E-04	2.3211E-04	TONs
Nickel	7440020	0.	0.0204793	0.0204793	TONs
PAH, 16-	40	0.	3.92801E-04	3.92801E-04	TONs
Phenol	108952	0.	0.00226754	0.00226754	TONs
Propylene Oxide	75569	0.	0.00258892	0.00258892	TONs
Toluene	108883	0.	0.023211	0.023211	TONs
Xylenes (Isomers and Mixture)	1330207	0.	0.011427	0.011427	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: 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 (Diesel)	Burned	0	1000 GALLONS

Variable	Amount	Meaning

HCl		Liquid Heat Content (Btu/gallons)
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	

- **Process & Emissions Detail**

Name: CT #2 Natural Gas

Source Classification Code (SCC): 2-01-002-01

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

Schedule Trade Secret:

Hours Per Day: 3

Days Per Week: 3

Weeks Per Year: 49

Hours Per Year: 445

Winter (Dec - Feb): 29

Spring (March-May): 24

Summer (June-Aug): 36

Fall (Sept-Nov): 11

Material	Material Action	Throughput	X Units
Natural Gas	Burned	354.61	MILLION CUBIC FEET

Variable	Amount	Meaning
HCg	1007	Gas Heat Content (Btu/Cubic Feet)
S	0	% 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) -	PM-CON	emissions:			0	0.84	0.84	TONS	The combustion turbine manufacturer provided emission factor

Primary PM Condensable Portion Only (All Less than 1 Micron)			ENG. JUDGEMENT							is 5 lbs/hour. It is assumed that the emissions are split 28% as filterable and 72% as condensable, the same as the AP-42 factor.
SO2 - Sulfur Dioxide	SO2	X	emissions: CEM			0	0	0.	TONs	As determined by 40 CFR 75, Appendix D.
NOx - Nitrogen Oxides	NOX	X	emissions: CEM			0	4.9	4.9	TONs	
Organic Compounds	OC	X	factor:OEP A (auto calculate)	445	11.077	0.	1.96401	1.96401	TONs	
Pb - Lead	7439921	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	The combustion turbine manufacturer reported that emissions are zero when firing natural gas.
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: ENG. JUDGEMENT			0	0.34	0.34	TONs	The combustion turbine manufacturer provided emission factor is 5 lbs/hour. It is assumed that the emissions are split 28% as filterable and 72% as condensable, the same as the AP-42 factor.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0	0.34	0.34	TONs	Assumes filterable PM-10 is equal to filterable primary particulate.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0	0.34	0.34	TONs	Assumes filterable PM-2.5 is equal to filterable primary particulate.
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0	0.56	0.56	TONs	The combustion turbine manufacturer provided emission factor is 2.5 lbs/hour.
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	1.16	1.16	TONs	The webFIRE emission factor for steam and water injected combustion turbines was used. The factor is 0.0065 lbs/MMBtu.
CO - Carbon Monoxide	CO		emissions: CEM			0	1.29	1.29	TONs	
Total of Chargable Pollutants								7.20401	TONs	

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- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Acetaldehyde	75070	factor:OEP A (auto calculate)	445	0.04028	0.	0.00714185	0.00714185	TONs	
Acrolein	107028	factor:OEP A (auto calculate)	445	0.0064448	0.	0.0011427	0.0011427	TONs	
Benz[A]Anthracene	56553	factor:OEP A (auto calculate)	445	0.003021	0.	5.35638E-04	5.35638E-04	TONs	
Benzene	71432	factor:OEP A (auto calculate)	445	0.012084	0.	0.00214255	0.00214255	TONs	
Butadiene, 1,3-	106990	factor:OEP A (auto calculate)	445	2.16505E-04	0.	3.83874E-05	3.83874E-05	TONs	
Cadmium	7440439	factor:OEP A (auto calculate)	445	0.00697348	0.	0.00123643	0.00123643	TONs	
Chromium	7440473	factor:OEP A (auto calculate)	445	0.013383	0.	0.00237287	0.00237287	TONs	
Ethyl Benzene	100414	factor:OEP A (auto calculate)	445	0.032224	0.	0.00571348	0.00571348	TONs	
Fluoranthene	206440	factor:OEP A (auto calculate)	445	0.0012084	0.	2.14255E-04	2.14255E-04	TONs	
Formaldehyde	50000	factor:OEP A (auto calculate)	445	0.71497	0.	0.126768	0.126768	TONs	
MN - Manganese	7439965	factor:OEP A (auto calculate)	445	0.0807614	0.	0.0143194	0.0143194	TONs	
Mercury & Compounds	199	emissions:ENG.			0	0	0.	TONs	The combustion turbine manufacturer reported that emissions are zero when firing natural gas.

		JUDGEMENT							
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	factor:OEP A (auto calculate)	445	0.006676 41	0.	0.00118376	0.00118376	TONs	
Naphthalene	91203	factor:OEP A (auto calculate)	445	0.001309 1	0.	2.3211E-04	2.3211E-04	TONs	
Nickel	7440020	factor:OEP A (auto calculate)	445	0.115503	0.	0.0204793	0.0204793	TONs	
PAH, 16-	40	factor:OEP A (auto calculate)	445	0.002215 4	0.	3.92801E-04	3.92801E-04	TONs	
Phenol	108952	factor:OEP A (auto calculate)	445	0.012788 9	0.	0.00226754	0.00226754	TONs	
Propylene Oxide	75569	factor:OEP A (auto calculate)	445	0.014601 5	0.	0.00258892	0.00258892	TONs	
Toluene	108883	factor:OEP A (auto calculate)	445	0.13091	0.	0.023211	0.023211	TONs	
Xylenes (Isomers and Mixture)	1330207	factor:OEP A (auto calculate)	445	0.064448	0.	0.011427	0.011427	TONs	

Chromium	7440473	0.	0.00220806	0.00220806	TONs
Ethyl Benzene	100414	0.	0.00531664	0.00531664	TONs
Fluoranthene	206440	0.	1.99374E-04	1.99374E-04	TONs
Formaldehyde	50000	0.	0.117963	0.117963	TONs
MN - Manganese	7439965	0.	0.0133248	0.0133248	TONs
Mercury & Compounds	199	0	0	0.	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	0.00110154	0.00110154	TONs
Naphthalene	91203	0.	2.15988E-04	2.15988E-04	TONs
Nickel	7440020	0.	0.0190568	0.0190568	TONs
PAH, 16-	40	0.	3.65519E-04	3.65519E-04	TONs
Phenol	108952	0.	0.00211004	0.00211004	TONs
Propylene Oxide	75569	0.	0.0024091	0.0024091	TONs
Toluene	108883	0.	0.0215988	0.0215988	TONs
Xylenes (Isomers and Mixture)	1330207	0.	0.0106333	0.0106333	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: 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 (Diesel)	Burned	0	1000 GALLONS

Variable	Amount	Meaning

HCl		Liquid Heat Content (Btu/gallons)
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	

- **Process & Emissions Detail**

Name: CT #3 Natural Gas

Source Classification Code (SCC): 2-01-002-01

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

Schedule Trade Secret:

Hours Per Day: 2

Days Per Week: 5

Weeks Per Year: 43

Hours Per Year: 430

Winter (Dec - Feb): 33

Spring (March-May): 20

Summer (June-Aug): 37

Fall (Sept-Nov): 10

Material	Material Action	Throughput	X Units
Natural Gas	Burned	329.98	MILLION CUBIC FEET

Variable	Amount	Meaning
HCg	1007	Gas Heat Content (Btu/Cubic Feet)
S	0	% 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) -	PM-CON	emissions:			0	0.78	0.78	TONS	The combustion turbine manufacturer provided emission factor

Primary PM Condensable Portion Only (All Less than 1 Micron)			ENG. JUDGEMENT							is 5 lbs/hour. It is assumed that the emissions are split 28% as filterable and 72% as condensable, the same as the AP-42 factor.
SO2 - Sulfur Dioxide	SO2	X	emissions: CEM			0	0	0.	TONs	As determined by 40 CFR 75, Appendix D.
NOx - Nitrogen Oxides	NOX	X	emissions: CEM			0	4.3	4.3	TONs	
Organic Compounds	OC	X	factor:OEP A (auto calculate)	430	11.077	0.	1.82759	1.82759	TONs	
Pb - Lead	7439921	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	The combustion turbine manufacturer reported that emissions are zero when firing natural gas.
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: ENG. JUDGEMENT			0	0.32	0.32	TONs	The combustion turbine manufacturer provided emission factor is 5 lbs/hour. It is assumed that the emissions are split 28% as filterable and 72% as condensable, the same as the AP-42 factor.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0	0.32	0.32	TONs	Assumes filterable PM-10 is equal to filterable primary particulate.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0	0.32	0.32	TONs	Assumes filterable PM-2.5 is equal to filterable primary particulate.
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0	0.54	0.54	TONs	The combustion turbine manufacturer provided emission factor is 2.5 lbs/hour.
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	1.08	1.08	TONs	The webFIRE emission factor for steam and water injected combustion turbines was used. The factor is 0.0065 lbs/MMBtu.
CO - Carbon Monoxide	CO		emissions: CEM			0	0.82	0.82	TONs	
Total of Chargable Pollutants								6.44759	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
Acetaldehyde	75070	factor:OEP A (auto calculate)	430	0.04028	0.	0.0066458	0.0066458	TONs	
Acrolein	107028	factor:OEP A (auto calculate)	430	0.0064448	0.	0.00106333	0.00106333	TONs	
Benz[A]Anthracene	56553	factor:OEP A (auto calculate)	430	0.003021	0.	4.98435E-04	4.98435E-04	TONs	
Benzene	71432	factor:OEP A (auto calculate)	430	0.012084	0.	0.00199374	0.00199374	TONs	
Butadiene, 1,3-	106990	factor:OEP A (auto calculate)	430	2.16505E-04	0.	3.57212E-05	3.57212E-05	TONs	
Cadmium	7440439	factor:OEP A (auto calculate)	430	0.00697348	0.	0.00115055	0.00115055	TONs	
Chromium	7440473	factor:OEP A (auto calculate)	430	0.013383	0.	0.00220806	0.00220806	TONs	
Ethyl Benzene	100414	factor:OEP A (auto calculate)	430	0.032224	0.	0.00531664	0.00531664	TONs	
Fluoranthene	206440	factor:OEP A (auto calculate)	430	0.0012084	0.	1.99374E-04	1.99374E-04	TONs	
Formaldehyde	50000	factor:OEP A (auto calculate)	430	0.71497	0.	0.117963	0.117963	TONs	
MN - Manganese	7439965	factor:OEP A (auto calculate)	430	0.0807614	0.	0.0133248	0.0133248	TONs	
Mercury & Compounds	199	emissions:ENG.			0	0	0.	TONs	The combustion turbine manufacturer reported that emissions are zero when firing natural gas.

		JUDGEMENT							
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	factor:OEP A (auto calculate)	430	0.006676 41	0.	0.00110154	0.00110154	TONs	
Naphthalene	91203	factor:OEP A (auto calculate)	430	0.001309 1	0.	2.15988E-04	2.15988E-04	TONs	
Nickel	7440020	factor:OEP A (auto calculate)	430	0.115503	0.	0.0190568	0.0190568	TONs	
PAH, 16-	40	factor:OEP A (auto calculate)	430	0.002215 4	0.	3.65519E-04	3.65519E-04	TONs	
Phenol	108952	factor:OEP A (auto calculate)	430	0.012788 9	0.	0.00211004	0.00211004	TONs	
Propylene Oxide	75569	factor:OEP A (auto calculate)	430	0.014601 5	0.	0.0024091	0.0024091	TONs	
Toluene	108883	factor:OEP A (auto calculate)	430	0.13091	0.	0.0215988	0.0215988	TONs	
Xylenes (Isomers and Mixture)	1330207	factor:OEP A (auto calculate)	430	0.064448	0.	0.0106333	0.0106333	TONs	

Chromium	7440473	0.	0.00185204	0.00185204	TONs
Ethyl Benzene	100414	0.	0.0044594	0.0044594	TONs
Fluoranthene	206440	0.	1.67227E-04	1.67227E-04	TONs
Formaldehyde	50000	0.	0.0989429	0.0989429	TONs
MN - Manganese	7439965	0.	0.0111764	0.0111764	TONs
Mercury & Compounds	199	0	0	0.	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	9.23931E-04	9.23931E-04	TONs
Naphthalene	91203	0.	1.81163E-04	1.81163E-04	TONs
Nickel	7440020	0.	0.0159841	0.0159841	TONs
PAH, 16-	40	0.	3.06584E-04	3.06584E-04	TONs
Phenol	108952	0.	0.00176982	0.00176982	TONs
Propylene Oxide	75569	0.	0.00202066	0.00202066	TONs
Toluene	108883	0.	0.0181163	0.0181163	TONs
Xylenes (Isomers and Mixture)	1330207	0.	0.00891879	0.00891879	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: 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 (Diesel)	Burned	0	1000 GALLONS

Variable	Amount	Meaning

HCl		Liquid Heat Content (Btu/gallons)
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	

- **Process & Emissions Detail**

Name: CT #4 Natural Gas

Source Classification Code (SCC): 2-01-002-01

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

Schedule Trade Secret:

Hours Per Day: 2

Days Per Week: 4

Weeks Per Year: 50

Hours Per Year: 396

Winter (Dec - Feb): 25

Spring (March-May): 21

Summer (June-Aug): 42

Fall (Sept-Nov): 12

Material	Material Action	Throughput	X Units
Natural Gas	Burned	277.05	MILLION CUBIC FEET

Variable	Amount	Meaning
HCg	1006	Gas Heat Content (Btu/Cubic Feet)
S	0	% 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) -	PM-CON	emissions:			0	0.65	0.65	TONS	The combustion turbine manufacturer provided emission factor

Primary PM Condensable Portion Only (All Less than 1 Micron)			ENG. JUDGEMENT							is 5 lbs/hour. It is assumed that the emissions are split 28% as filterable and 72% as condensable, the same as the AP-42 factor.
SO2 - Sulfur Dioxide	SO2	X	emissions: CEM			0	0	0.	TONs	As determined by 40 CFR 75, Appendix D.
NOx - Nitrogen Oxides	NOX	X	emissions: CEM			0	3.4	3.4	TONs	
Organic Compounds	OC	X	factor:OEP A (auto calculate)	0	11.066	0.	1.53292	1.53292	TONs	
Pb - Lead	7439921	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	The combustion turbine manufacturer reported that emissions are zero when firing natural gas.
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: ENG. JUDGEMENT			0	0.26	0.26	TONs	The combustion turbine manufacturer provided emission factor is 5 lbs/hour. It is assumed that the emissions are split 28% as filterable and 72% as condensable, the same as the AP-42 factor.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0	0.26	0.26	TONs	Assumes filterable PM-10 is equal to filterable primary particulate.
PM2.5 (FIL) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0	0.26	0.26	TONs	Assumes filterable PM-2.5 is equal to filterable primary particulate.
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0	0.50	0.5	TONs	The combustion turbine manufacturer provided emission factor is 2.5 lbs/hour.
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0.91	0.91	TONs	The webFIRE emission factor for steam and water injected combustion turbines was used. The factor is 0.0065 lbs/MMBtu.
CO - Carbon Monoxide	CO		emissions: CEM			0	2.05	2.05	TONs	
Total of Chargable Pollutants								5.19292	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
Acetaldehyde	75070	factor:OEP A (auto calculate)	396	0.04024	0.	0.00557425	0.00557425	TONs	
Acrolein	107028	factor:OEP A (auto calculate)	396	0.0064384	0.	8.91879E-04	8.91879E-04	TONs	
Benz[A]Anthracene	56553	factor:OEP A (auto calculate)	396	0.003018	0.	4.18068E-04	4.18068E-04	TONs	
Benzene	71432	factor:OEP A (auto calculate)	396	0.012072	0.	0.00167227	0.00167227	TONs	
Butadiene, 1,3-	106990	factor:OEP A (auto calculate)	396	2.1629E-04	0.	2.99616E-05	2.99616E-05	TONs	
Cadmium	7440439	factor:OEP A (auto calculate)	396	0.00696655	0.	9.65041E-04	9.65041E-04	TONs	
Chromium	7440473	factor:OEP A (auto calculate)	396	0.0133697	0.	0.00185204	0.00185204	TONs	
Ethyl Benzene	100414	factor:OEP A (auto calculate)	396	0.032192	0.	0.0044594	0.0044594	TONs	
Fluoranthene	206440	factor:OEP A (auto calculate)	396	0.0012072	0.	1.67227E-04	1.67227E-04	TONs	
Formaldehyde	50000	factor:OEP A (auto calculate)	396	0.71426	0.	0.0989429	0.0989429	TONs	
MN - Manganese	7439965	factor:OEP A (auto calculate)	396	0.0806812	0.	0.0111764	0.0111764	TONs	
Mercury & Compounds	199	emissions:ENG.			0	0	0.	TONs	The combustion turbine manufacturer reported that emissions are zero when firing natural gas.

		JUDGEMENT							
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	factor:OEP A (auto calculate)	396	0.006669 78	0.	9.23931E-04	9.23931E-04	TONs	
Naphthalene	91203	factor:OEP A (auto calculate)	396	0.001307 8	0.	1.81163E-04	1.81163E-04	TONs	
Nickel	7440020	factor:OEP A (auto calculate)	396	0.115388	0.	0.0159841	0.0159841	TONs	
PAH, 16-	40	factor:OEP A (auto calculate)	396	0.002213 2	0.	3.06584E-04	3.06584E-04	TONs	
Phenol	108952	factor:OEP A (auto calculate)	396	0.012776 2	0.	0.00176982	0.00176982	TONs	
Propylene Oxide	75569	factor:OEP A (auto calculate)	396	0.014587	0.	0.00202066	0.00202066	TONs	
Toluene	108883	factor:OEP A (auto calculate)	396	0.13078	0.	0.0181163	0.0181163	TONs	
Xylenes (Isomers and Mixture)	1330207	factor:OEP A (auto calculate)	396	0.064384	0.	0.00891879	0.00891879	TONs	

Chromium	7440473	0.	0.00229799	0.00229799	TONs
Ethyl Benzene	100414	0.	0.00553318	0.00553318	TONs
Fluoranthene	206440	0.	2.07494E-04	2.07494E-04	TONs
Formaldehyde	50000	0.	0.122767	0.122767	TONs
MN - Manganese	7439965	0.	0.0138675	0.0138675	TONs
Mercury & Compounds	199	0	0	0.	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	0.00114641	0.00114641	TONs
Naphthalene	91203	0.	2.24786E-04	2.24786E-04	TONs
Nickel	7440020	0.	0.019833	0.019833	TONs
PAH, 16-	40	0.	3.80406E-04	3.80406E-04	TONs
Phenol	108952	0.	0.00219598	0.00219598	TONs
Propylene Oxide	75569	0.	0.00250722	0.00250722	TONs
Toluene	108883	0.	0.0224786	0.0224786	TONs
Xylenes (Isomers and Mixture)	1330207	0.	0.0110664	0.0110664	TONs

- **Processes**

- **Process & Emissions Detail**

Name: CT #5 Fuel Oil

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

- **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 (Diesel)	Burned	0	1000 GALLONS

Variable	Amount	Meaning

HCl		Liquid Heat Content (Btu/gallons)
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	

- **Process & Emissions Detail**

Name: CT #5 Natural Gas

Source Classification Code (SCC): 2-01-002-01

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

Schedule Trade Secret:

Hours Per Day: 3

Days Per Week: 3

Weeks Per Year: 50

Hours Per Year: 454

Winter (Dec - Feb): 29

Spring (March-May): 24

Summer (June-Aug): 39

Fall (Sept-Nov): 8

Material	Material Action	Throughput	X Units
Natural Gas	Burned	343.42	MILLION CUBIC FEET

Variable	Amount	Meaning
HCg	1007	Gas Heat Content (Btu/Cubic Feet)
S	0	% 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) -	PM-CON	emissions:			0	0.81	0.81	TONS	The combustion turbine manufacturer provided emission factor

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
Acetaldehyde	75070	factor:OEP A (auto calculate)	454	0.04028	0.	0.00691648	0.00691648	TONs	
Acrolein	107028	factor:OEP A (auto calculate)	454	0.0064448	0.	0.00110664	0.00110664	TONs	
Benz[A]Anthracene	56553	factor:OEP A (auto calculate)	454	0.003021	0.	5.18736E-04	5.18736E-04	TONs	
Benzene	71432	factor:OEP A (auto calculate)	454	0.012084	0.	0.00207494	0.00207494	TONs	
Butadiene, 1,3-	106990	factor:OEP A (auto calculate)	454	2.16505E-04	0.	3.71761E-05	3.71761E-05	TONs	
Cadmium	7440439	factor:OEP A (auto calculate)	454	0.00697348	0.	0.00119742	0.00119742	TONs	
Chromium	7440473	factor:OEP A (auto calculate)	454	0.013383	0.	0.00229799	0.00229799	TONs	
Ethyl Benzene	100414	factor:OEP A (auto calculate)	454	0.032224	0.	0.00553318	0.00553318	TONs	
Fluoranthene	206440	factor:OEP A (auto calculate)	454	0.0012084	0.	2.07494E-04	2.07494E-04	TONs	
Formaldehyde	50000	factor:OEP A (auto calculate)	454	0.71497	0.	0.122767	0.122767	TONs	
MN - Manganese	7439965	factor:OEP A (auto calculate)	454	0.0807614	0.	0.0138675	0.0138675	TONs	
Mercury & Compounds	199	emissions:ENG.			0	0	0.	TONs	The combustion turbine manufacturer reported that emissions are zero when firing natural gas.

		JUDGEMENT							
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	factor:OEP A (auto calculate)	454	0.006676 41	0.	0.00114641	0.00114641	TONs	
Naphthalene	91203	factor:OEP A (auto calculate)	454	0.001309 1	0.	2.24786E-04	2.24786E-04	TONs	
Nickel	7440020	factor:OEP A (auto calculate)	454	0.115503	0.	0.019833	0.019833	TONs	
PAH, 16-	40	factor:OEP A (auto calculate)	454	0.002215 4	0.	3.80406E-04	3.80406E-04	TONs	
Phenol	108952	factor:OEP A (auto calculate)	454	0.012788 9	0.	0.00219598	0.00219598	TONs	
Propylene Oxide	75569	factor:OEP A (auto calculate)	454	0.014601 5	0.	0.00250722	0.00250722	TONs	
Toluene	108883	factor:OEP A (auto calculate)	454	0.13091	0.	0.0224786	0.0224786	TONs	
Xylenes (Isomers and Mixture)	1330207	factor:OEP A (auto calculate)	454	0.064448	0.	0.0110664	0.0110664	TONs	

Emission Unit Summary: P006

Oct 11 2011, 11:22:44

Emissions Unit ID: P006

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	0.66	0.66	TONs	
SO2 - Sulfur Dioxide	SO2	X	0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X	0	3.3	3.3	TONs	
Organic Compounds	OC	X	0.	1.54924	1.54924	TONs	
Pb - Lead	7439921	X	0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0	0.27	0.27	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0	0.27	0.27	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0	0.27	0.27	TONs	
VOC - Volatile Organic Compounds	VOC		0	0.45	0.45	TONs	
Ammonia	NH3		0	0.92	0.92	TONs	
CO - Carbon Monoxide	CO		0	1.15	1.15	TONs	
Total of Chargable Pollutants					5.11924	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
Acetaldehyde	75070	0.	0.0056336	0.0056336	TONs
Acrolein	107028	0.	9.01376E-04	9.01376E-04	TONs
Benz[A]Anthracene	56553	0.	4.2252E-04	4.2252E-04	TONs
Benzene	71432	0.	0.00169008	0.00169008	TONs
Butadiene, 1,3-	106990	0.	3.02806E-05	3.02806E-05	TONs
Cadmium	7440439	0.	9.75317E-04	9.75317E-04	TONs

Chromium	7440473	0.	0.00187176	0.00187176	TONs
Ethyl Benzene	100414	0.	0.00450688	0.00450688	TONs
Fluoranthene	206440	0.	1.69008E-04	1.69008E-04	TONs
Formaldehyde	50000	0.	0.0999964	0.0999964	TONs
MN - Manganese	7439965	0.	0.0112954	0.0112954	TONs
Mercury & Compounds	199	0	0	0.	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	9.33769E-04	9.33769E-04	TONs
Naphthalene	91203	0.	1.83092E-04	1.83092E-04	TONs
Nickel	7440020	0.	0.0161543	0.0161543	TONs
PAH, 16-	40	0.	3.09848E-04	3.09848E-04	TONs
Phenol	108952	0.	0.00178867	0.00178867	TONs
Propylene Oxide	75569	0.	0.00204218	0.00204218	TONs
Toluene	108883	0.	0.0183092	0.0183092	TONs
Xylenes (Isomers and Mixture)	1330207	0.	0.00901376	0.00901376	TONs

- **Processes**

- **Process & Emissions Detail**

Name: CT #6 Fuel Oil

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

- **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 (Diesel)	Burned	0	1000 GALLONS

Variable	Amount	Meaning

HCl		Liquid Heat Content (Btu/gallons)
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	

- **Process & Emissions Detail**

Name: CT #6 Natural Gas

Source Classification Code (SCC): 2-01-002-01

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

Schedule Trade Secret:

Hours Per Day: 1

Days Per Week: 7

Weeks Per Year: 52

Hours Per Year: 362

Winter (Dec - Feb): 26

Spring (March-May): 23

Summer (June-Aug): 43

Fall (Sept-Nov): 8

Material	Material Action	Throughput	X Units
Natural Gas	Burned	280.00	MILLION CUBIC FEET

Variable	Amount	Meaning
HCg	1006	Gas Heat Content (Btu/Cubic Feet)
S	0	% 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) -	PM-CON	emissions:			0	0.66	0.66	TONS	The combustion turbine manufacturer provided emission factor

Primary PM Condensable Portion Only (All Less than 1 Micron)			ENG. JUDGEMENT							is 5 lbs/hour. It is assumed that the emissions are split 28% as filterable and 72% as condensable, the same as the AP-42 factor.
SO2 - Sulfur Dioxide	SO2	X	emissions: CEM			0	0	0.	TONs	As determined by 40 CFR 75, Appendix D.
NOx - Nitrogen Oxides	NOX	X	emissions: CEM			0	3.3	3.3	TONs	
Organic Compounds	OC	X	factor:OEP A (auto calculate)	362	11.066	0.	1.54924	1.54924	TONs	
Pb - Lead	7439921	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	The combustion turbine manufacturer reported that emissions are zero when firing natural gas.
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: ENG. JUDGEMENT			0	0.27	0.27	TONs	The combustion turbine manufacturer provided emission factor is 5 lbs/hour. It is assumed that the emissions are split 28% as filterable and 72% as condensable, the same as the AP-42 factor.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0	0.27	0.27	TONs	Assumes filterable PM-10 is equal to filterable primary particulate.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0	0.27	0.27	TONs	Assumes filterable PM-2.5 is equal to filterable primary particulate.
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0	0.45	0.45	TONs	The combustion turbine manufacturer provided emission factor is 2.5 lbs/hour.
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0.92	0.92	TONs	The webFIRE emission factor for steam and water injected combustion turbines was used. The factor is 0.0065 lbs/MMBtu.
CO - Carbon Monoxide	CO		emissions: CEM			0	1.15	1.15	TONs	
Total of Chargable Pollutants								5.11924	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
Acetaldehyde	75070	factor:OEP A (auto calculate)	362	0.04024	0.	0.0056336	0.0056336	TONs	
Acrolein	107028	factor:OEP A (auto calculate)	362	0.0064384	0.	9.01376E-04	9.01376E-04	TONs	
Benz[A]Anthracene	56553	factor:OEP A (auto calculate)	362	0.003018	0.	4.2252E-04	4.2252E-04	TONs	
Benzene	71432	factor:OEP A (auto calculate)	362	0.012072	0.	0.00169008	0.00169008	TONs	
Butadiene, 1,3-	106990	factor:OEP A (auto calculate)	362	2.1629E-04	0.	3.02806E-05	3.02806E-05	TONs	
Cadmium	7440439	factor:OEP A (auto calculate)	362	0.00696655	0.	9.75317E-04	9.75317E-04	TONs	
Chromium	7440473	factor:OEP A (auto calculate)	362	0.0133697	0.	0.00187176	0.00187176	TONs	
Ethyl Benzene	100414	factor:OEP A (auto calculate)	362	0.032192	0.	0.00450688	0.00450688	TONs	
Fluoranthene	206440	factor:OEP A (auto calculate)	362	0.0012072	0.	1.69008E-04	1.69008E-04	TONs	
Formaldehyde	50000	factor:OEP A (auto calculate)	362	0.71426	0.	0.0999964	0.0999964	TONs	
MN - Manganese	7439965	factor:OEP A (auto calculate)	362	0.0806812	0.	0.0112954	0.0112954	TONs	
Mercury & Compounds	199	emissions:ENG.			0	0	0.	TONs	The combustion turbine manufacturer reported that emissions are zero when firing natural gas.

		JUDGEMENT							
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	factor:OEP A (auto calculate)	362	0.006669 78	0.	9.33769E-04	9.33769E-04	TONs	
Naphthalene	91203	factor:OEP A (auto calculate)	362	0.001307 8	0.	1.83092E-04	1.83092E-04	TONs	
Nickel	7440020	factor:OEP A (auto calculate)	362	0.115388	0.	0.0161543	0.0161543	TONs	
PAH, 16-	40	factor:OEP A (auto calculate)	362	0.002213 2	0.	3.09848E-04	3.09848E-04	TONs	
Phenol	108952	factor:OEP A (auto calculate)	362	0.012776 2	0.	0.00178867	0.00178867	TONs	
Propylene Oxide	75569	factor:OEP A (auto calculate)	362	0.014587	0.	0.00204218	0.00204218	TONs	
Toluene	108883	factor:OEP A (auto calculate)	362	0.13078	0.	0.0183092	0.0183092	TONs	
Xylenes (Isomers and Mixture)	1330207	factor:OEP A (auto calculate)	362	0.064384	0.	0.00901376	0.00901376	TONs	

Chromium	7440473	0.	0.00202806	0.00202806	TONs
Ethyl Benzene	100414	0.	0.00488322	0.00488322	TONs
Fluoranthene	206440	0.	1.83121E-04	1.83121E-04	TONs
Formaldehyde	50000	0.	0.108347	0.108347	TONs
MN - Manganese	7439965	0.	0.0122386	0.0122386	TONs
Mercury & Compounds	199	0	0	0.	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	0.00101174	0.00101174	TONs
Naphthalene	91203	0.	1.98381E-04	1.98381E-04	TONs
Nickel	7440020	0.	0.0175033	0.0175033	TONs
PAH, 16-	40	0.	3.35722E-04	3.35722E-04	TONs
Phenol	108952	0.	0.00193803	0.00193803	TONs
Propylene Oxide	75569	0.	0.00221271	0.00221271	TONs
Toluene	108883	0.	0.0198381	0.0198381	TONs
Xylenes (Isomers and Mixture)	1330207	0.	0.00976645	0.00976645	TONs

- **Processes**

- **Process & Emissions Detail**

Name: CT #7 Fuel oil

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

- **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 (Diesel)	Burned	0	1000 GALLONS

Variable	Amount	Meaning

HCl		Liquid Heat Content (Btu/gallons)
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	

- **Process & Emissions Detail**

Name: CT #7 Natural Gas

Source Classification Code (SCC): 2-01-002-01

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

Schedule Trade Secret:

Hours Per Day: 3

Days Per Week: 3

Weeks Per Year: 46

Hours Per Year: 413

Winter (Dec - Feb): 31

Spring (March-May): 22

Summer (June-Aug): 39

Fall (Sept-Nov): 8

Material	Material Action	Throughput	X Units
Natural Gas	Burned	303.08	MILLION CUBIC FEET

Variable	Amount	Meaning
HCg	1007	Gas Heat Content (Btu/Cubic Feet)
S	0	% 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) -	PM-CON	emissions:			0	0.72	0.72	TONS	The combustion turbine manufacturer provided emission factor

Primary PM Condensable Portion Only (All Less than 1 Micron)			ENG. JUDGEMENT							is 5 lbs/hour. It is assumed that the emissions are split 28% as filterable and 72% as condensable, the same as the AP-42 factor.
SO2 - Sulfur Dioxide	SO2	X	emissions: CEM			0	0	0.	TONs	As determined by 40 CFR 75, Appendix D.
NOx - Nitrogen Oxides	NOX	X	emissions: CEM			0	3.8	3.8	TONs	
Organic Compounds	OC	X	factor:OEP A (auto calculate)	413	11.077	0.	1.67861	1.67861	TONs	
Pb - Lead	7439921	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	The combustion turbine manufacturer reported that emissions are zero when firing natural gas.
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: ENG. JUDGEMENT			0	0.29	0.29	TONs	The combustion turbine manufacturer provided emission factor is 5 lbs/hour. It is assumed that the emissions are split 28% as filterable and 72% as condensable, the same as the AP-42 factor.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0	0.29	0.29	TONs	Assumes filterable PM-10 is equal to filterable primary particulate.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0	0.29	0.29	TONs	Assumes filterable PM-2.5 is equal to filterable primary particulate.
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0	0.52	0.52	TONs	The combustion turbine manufacturer provided emission factor is 2.5 lbs/hour.
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0.99	0.99	TONs	The webFIRE emission factor for steam and water injected combustion turbines was used. The factor is 0.0065 lbs/MMBtu.
CO - Carbon Monoxide	CO		emissions: CEM			0	2.55	2.55	TONs	
Total of Chargable Pollutants								5.76861	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
Acetaldehyde	75070	factor:OEP A (auto calculate)	413	0.04028	0.	0.00610403	0.00610403	TONs	
Acrolein	107028	factor:OEP A (auto calculate)	413	0.0064448	0.	9.76645E-04	9.76645E-04	TONs	
Benz[A]Anthracene	56553	factor:OEP A (auto calculate)	413	0.003021	0.	4.57802E-04	4.57802E-04	TONs	
Benzene	71432	factor:OEP A (auto calculate)	413	0.012084	0.	0.00183121	0.00183121	TONs	
Butadiene, 1,3-	106990	factor:OEP A (auto calculate)	413	2.16505E-04	0.	3.28092E-05	3.28092E-05	TONs	
Cadmium	7440439	factor:OEP A (auto calculate)	413	0.00697348	0.	0.00105676	0.00105676	TONs	
Chromium	7440473	factor:OEP A (auto calculate)	413	0.013383	0.	0.00202806	0.00202806	TONs	
Ethyl Benzene	100414	factor:OEP A (auto calculate)	413	0.032224	0.	0.00488322	0.00488322	TONs	
Fluoranthene	206440	factor:OEP A (auto calculate)	413	0.0012084	0.	1.83121E-04	1.83121E-04	TONs	
Formaldehyde	50000	factor:OEP A (auto calculate)	413	0.71497	0.	0.108347	0.108347	TONs	
MN - Manganese	7439965	factor:OEP A (auto calculate)	413	0.0807614	0.	0.0122386	0.0122386	TONs	
Mercury & Compounds	199	emissions:ENG.			0	0	0.	TONs	The combustion turbine manufacturer reported that emissions are zero when firing natural gas.

		JUDGEMENT							
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	factor:OEP A (auto calculate)	413	0.006676 41	0.	0.00101174	0.00101174	TONs	
Naphthalene	91203	factor:OEP A (auto calculate)	413	0.001309 1	0.	1.98381E-04	1.98381E-04	TONs	
Nickel	7440020	factor:OEP A (auto calculate)	413	0.115503	0.	0.0175033	0.0175033	TONs	
PAH, 16-	40	factor:OEP A (auto calculate)	413	0.002215 4	0.	3.35722E-04	3.35722E-04	TONs	
Phenol	108952	factor:OEP A (auto calculate)	413	0.012788 9	0.	0.00193803	0.00193803	TONs	
Propylene Oxide	75569	factor:OEP A (auto calculate)	413	0.014601 5	0.	0.00221271	0.00221271	TONs	
Toluene	108883	factor:OEP A (auto calculate)	413	0.13091	0.	0.0198381	0.0198381	TONs	
Xylenes (Isomers and Mixture)	1330207	factor:OEP A (auto calculate)	413	0.064448	0.	0.00976645	0.00976645	TONs	

Emission Unit Summary: P008

Oct 11 2011, 11:22:44

Emissions Unit ID: P008

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	0.81	0.81	TONs	
SO2 - Sulfur Dioxide	SO2	X	0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X	0	4.3	4.3	TONs	
Organic Compounds	OC	X	0.	1.88565	1.88565	TONs	
Pb - Lead	7439921	X	0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0	0.33	0.33	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0	0.33	0.33	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0	0.33	0.33	TONs	
VOC - Volatile Organic Compounds	VOC		0	0.56	0.56	TONs	
Ammonia	NH3		0	1.11	1.11	TONs	
CO - Carbon Monoxide	CO		0	1.07	1.07	TONs	
Total of Chargable Pollutants					6.51565	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
Acetaldehyde	75070	0.	0.0068569	0.0068569	TONs
Acrolein	107028	0.	0.0010971	0.0010971	TONs
Benz[A]Anthracene	56553	0.	5.14267E-04	5.14267E-04	TONs
Benzene	71432	0.	0.00205707	0.00205707	TONs
Butadiene, 1,3-	106990	0.	3.68558E-05	3.68558E-05	TONs
Cadmium	7440439	0.	0.0011871	0.0011871	TONs

Chromium	7440473	0.	0.0022782	0.0022782	TONs
Ethyl Benzene	100414	0.	0.00548552	0.00548552	TONs
Fluoranthene	206440	0.	2.05707E-04	2.05707E-04	TONs
Formaldehyde	50000	0.	0.12171	0.12171	TONs
MN - Manganese	7439965	0.	0.0137481	0.0137481	TONs
Mercury & Compounds	199	0	0	0.	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	0.00113653	0.00113653	TONs
Naphthalene	91203	0.	2.22849E-04	2.22849E-04	TONs
Nickel	7440020	0.	0.0196621	0.0196621	TONs
PAH, 16-	40	0.	3.77129E-04	3.77129E-04	TONs
Phenol	108952	0.	0.00217706	0.00217706	TONs
Propylene Oxide	75569	0.	0.00248562	0.00248562	TONs
Toluene	108883	0.	0.0222849	0.0222849	TONs
Xylenes (Isomers and Mixture)	1330207	0.	0.010971	0.010971	TONs

- **Processes**

- **Process & Emissions Detail**

Name: CT #8 Fuel Oil

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

- **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 (Diesel)	Burned	0	1000 GALLONS

Variable	Amount	Meaning

HCl		Liquid Heat Content (Btu/gallons)
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	

- **Process & Emissions Detail**

Name: CT #8 Natural Gas

Source Classification Code (SCC): 2-01-002-01

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

Schedule Trade Secret:

Hours Per Day: 3

Days Per Week: 3

Weeks Per Year: 50

Hours Per Year: 451

Winter (Dec - Feb): 25

Spring (March-May): 20

Summer (June-Aug): 46

Fall (Sept-Nov): 9

Material	Material Action	Throughput	X Units
Natural Gas	Burned	340.80	MILLION CUBIC FEET

Variable	Amount	Meaning
HCg	1006	Gas Heat Content (Btu/Cubic Feet)
S	0	% 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) -	PM-CON	emissions:			0	0.81	0.81	TONS	The combustion turbine manufacturer provided emission factor

Primary PM Condensable Portion Only (All Less than 1 Micron)			ENG. JUDGEMENT							is 5 lbs/hour. It is assumed that the emissions are split 28% as filterable and 72% as condensable, the same as the AP-42 factor.
SO2 - Sulfur Dioxide	SO2	X	emissions: CEM			0	0	0.	TONs	As determined by 40 CFR 75, Appendix D.
NOx - Nitrogen Oxides	NOX	X	emissions: CEM			0	4.3	4.3	TONs	
Organic Compounds	OC	X	factor:OEP A (auto calculate)	451	11.066	0.	1.88565	1.88565	TONs	
Pb - Lead	7439921	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	The combustion turbine manufacturer reported that emissions are zero when firing natural gas.
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: ENG. JUDGEMENT			0	0.33	0.33	TONs	The combustion turbine manufacturer provided emission factor is 5 lbs/hour. It is assumed that the emissions are split 28% as filterable and 72% as condensable, the same as the AP-42 factor.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0	0.33	0.33	TONs	Assumes filterable PM-10 is equal to filterable primary particulate.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0	0.33	0.33	TONs	Assumes filterable PM-2.5 is equal to filterable primary particulate.
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0	0.56	0.56	TONs	The combustion turbine manufacturer provided emission factor is 2.5 lbs/hour.
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	1.11	1.11	TONs	The webFIRE emission factor for steam and water injected combustion turbines was used. The factor is 0.0065 lbs/MMBtu.
CO - Carbon Monoxide	CO		emissions: CEM			0	1.07	1.07	TONs	
Total of Chargable Pollutants								6.51565	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
Acetaldehyde	75070	factor:OEP A (auto calculate)	451	0.04024	0.	0.0068569	0.0068569	TONs	
Acrolein	107028	factor:OEP A (auto calculate)	451	0.0064384	0.	0.0010971	0.0010971	TONs	
Benz[A]Anthracene	56553	factor:OEP A (auto calculate)	451	0.003018	0.	5.14267E-04	5.14267E-04	TONs	
Benzene	71432	factor:OEP A (auto calculate)	451	0.012072	0.	0.00205707	0.00205707	TONs	
Butadiene, 1,3-	106990	factor:OEP A (auto calculate)	451	2.1629E-04	0.	3.68558E-05	3.68558E-05	TONs	
Cadmium	7440439	factor:OEP A (auto calculate)	451	0.00696655	0.	0.0011871	0.0011871	TONs	
Chromium	7440473	factor:OEP A (auto calculate)	451	0.0133697	0.	0.0022782	0.0022782	TONs	
Ethyl Benzene	100414	factor:OEP A (auto calculate)	451	0.032192	0.	0.00548552	0.00548552	TONs	
Fluoranthene	206440	factor:OEP A (auto calculate)	451	0.0012072	0.	2.05707E-04	2.05707E-04	TONs	
Formaldehyde	50000	factor:OEP A (auto calculate)	451	0.71426	0.	0.12171	0.12171	TONs	
MN - Manganese	7439965	factor:OEP A (auto calculate)	451	0.0806812	0.	0.0137481	0.0137481	TONs	
Mercury & Compounds	199	emissions:ENG.			0	0	0.	TONs	The combustion turbine manufacturer reported that emissions are zero when firing natural gas.

		JUDGEMENT							
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	factor:OEP A (auto calculate)	451	0.006669 78	0.	0.00113653	0.00113653	TONs	
Naphthalene	91203	factor:OEP A (auto calculate)	451	0.001307 8	0.	2.22849E-04	2.22849E-04	TONs	
Nickel	7440020	factor:OEP A (auto calculate)	451	0.115388	0.	0.0196621	0.0196621	TONs	
PAH, 16-	40	factor:OEP A (auto calculate)	451	0.002213 2	0.	3.77129E-04	3.77129E-04	TONs	
Phenol	108952	factor:OEP A (auto calculate)	451	0.012776 2	0.	0.00217706	0.00217706	TONs	
Propylene Oxide	75569	factor:OEP A (auto calculate)	451	0.014587	0.	0.00248562	0.00248562	TONs	
Toluene	108883	factor:OEP A (auto calculate)	451	0.13078	0.	0.0222849	0.0222849	TONs	
Xylenes (Isomers and Mixture)	1330207	factor:OEP A (auto calculate)	451	0.064384	0.	0.010971	0.010971	TONs	

Emission Unit Summary: P009

Oct 11 2011, 11:22:44

Emissions Unit ID: P009

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	0.01	0.01	TONs	
SO2 - Sulfur Dioxide	SO2	X	0	0.34	0.34	TONs	
NOx - Nitrogen Oxides	NOX	X	0	2.13	2.13	TONs	
Organic Compounds	OC	X	0	0.06	0.06	TONs	
Pb - Lead	7439921	X	0	0.00	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0	0.04	0.04	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0	0.03	0.03	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0	0.03	0.03	TONs	
VOC - Volatile Organic Compounds	VOC		0	0.06	0.06	TONs	
Ammonia	NH3		0.	0.0039344	0.0039344	TONs	
CO - Carbon Monoxide	CO		0	0.57	0.57	TONs	
Total of Chargable Pollutants					2.57	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.	4.74882E-07	4.74882E-07	TONs
Acenaphthylene	208968	0.	1.69219E-06	1.69219E-06	TONs
Acetaldehyde	75070	0.	5.13006E-04	5.13006E-04	TONs
Acrolein	107028	0.	3.09342E-05	3.09342E-05	TONs
Anthracene	120127	0.	1.25075E-06	1.25075E-06	TONs
Benz[A]Anthracene	56553	0.	7.47536E-09	7.47536E-09	TONs

Benzene	71432	0.	6.34422E-04	6.34422E-04	TONs
Benzo[A]Pyrene	50328	0.	1.43468E-07	1.43468E-07	TONs
Benzo[B]Fluoranthene	205992	0.	3.31414E-08	3.31414E-08	TONs
Benzo[G,H,I,]Perylene	191242	0.	1.63533E-07	1.63533E-07	TONs
Benzo[K]Fluoranthene	207089	0.	5.18357E-08	5.18357E-08	TONs
Butadiene, 1,3-	106990	0.	1.3076E-05	1.3076E-05	TONs
Chrysene	218019	0.	5.9016E-08	5.9016E-08	TONs
Dibenzo[A,H]Anthracene	53703	0.	1.94969E-07	1.94969E-07	TONs
Ethyl Benzene	100414	0.	1.50983E-05	1.50983E-05	TONs
Fluoranthene	206440	0.	6.44258E-07	6.44258E-07	TONs
Fluorene	86737	0.	1.95304E-05	1.95304E-05	TONs
Formaldehyde	50000	0.	3.26063E-04	3.26063E-04	TONs
Indeno[1,2,3-C,D]Pyrene	193395	0.	1.25409E-07	1.25409E-07	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	2.01591E-07	2.01591E-07	TONs
Naphthalene	91203	0.	6.34422E-05	6.34422E-05	TONs
PAH, 16-	40	0.	1.12366E-04	1.12366E-04	TONs
Phenanthrene	85018	0.	1.96641E-05	1.96641E-05	TONs
Pyrene	129000	0.	3.19709E-06	3.19709E-06	TONs
Toluene	108883	0.	1.89835E-04	1.89835E-04	TONs
Xylenes (Isomers and Mixture)	1330207	0.	3.36391E-05	3.36391E-05	TONs

- **Processes**

- **Process & Emissions Detail**

Name: No. 1 Diesel Gen.

Source Classification Code (SCC): 2-01-001-02

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

Schedule Trade Secret:

Hours Per Day: 1

Days Per Week: 7

Weeks Per Year: 11

Winter (Dec - Feb)%: 1

Spring (March-May)%: 1

Summer (June-Aug)%: 63

Material	Material Action	Throughput	X Units
Distillate Oil (Diesel)	Burned	9.836	1000 GALLONS

Variable	Amount	Meaning
HCl	136000	Liquid Heat Content (Btu/gallons)

- **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	emissions: ENG. JUDGEMENT			0	0.01	0.01	TONs	Emissions were estimated using factors found in AP-42, Section 3.4, "Large Stationary Diesel and All Stationary Dual-Fuel Engines", (10/96).
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0.34	0.34	TONs	Emissions were estimated using factors found in AP-42, Section 3.4, "Large Stationary Diesel and All Stationary Dual-Fuel Engines", (10/96).
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	2.13	2.13	TONs	Emissions were estimated using factors found in AP-42, Section 3.4, "Large Stationary Diesel and All Stationary Dual-Fuel Engines", (10/96).
Organic Compounds	OC	X emissions: ENG. JUDGEMENT			0	0.06	0.06	TONs	Emissions were estimated using factors found in AP-42, Section 3.4, "Large Stationary Diesel and All Stationary Dual-Fuel Engines", (10/96).
Pb - Lead	7439921	X emissions: ENG. JUDGEMENT			0	0.00	0.	TONs	Lead emissions factors taken from AP-42, Section 1.3, "Fuel Oil Combustion", (05/10)
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X emissions: ENG. JUDGEMENT			0	0.04	0.04	TONs	Emissions were estimated using factors found in AP-42, Section 3.4, "Large Stationary Diesel and All Stationary Dual-Fuel Engines", (10/96).
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	emissions: ENG. JUDGEMENT			0	0.03	0.03	TONs	Emissions were estimated using factors found in AP-42, Section 3.4, "Large Stationary Diesel and All Stationary Dual-Fuel Engines", (10/96).
PM2.5 (FILT) - Primary PM2.5,	PM25-FIL	emissions: ENG.			0	0.03	0.03	TONs	Emissions were estimated using factors found in AP-42, Section 3.4, "Large Stationary Diesel and All Stationary

Filterable Portion Only		JUDGEMENT								Dual-Fuel Engines", (10/96).
VOC - Volatile Organic Compounds	VOC	emissions: ENG. JUDGEMENT			0	0.06	0.06	TONs		Emissions were estimated using factors found in AP-42, Section 3.4, "Large Stationary Diesel and All Stationary Dual-Fuel Engines", (10/96).
Ammonia	NH3	factor:ENG . JUDGEMENT	0	0.8	0.	0.0039344	0.0039344	TONs		Ammonia emission factors taken from "Development and Selection of Ammonia Emission Factors", USEPA, Aug. 1994.
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0.57	0.57	TONs		Emissions were estimated using factors found in AP-42, Section 3.4, "Large Stationary Diesel and All Stationary Dual-Fuel Engines", (10/96).
Total of Chargable Pollutants							2.57	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.

Process Emissions

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Acenaphthene	83329	factor:OEP A (auto calculate)	0	9.656E-05	0.	4.74882E-07	4.74882E-07	TONs	
Acenaphthylene	208968	factor:OEP A (auto calculate)	0	3.4408E-04	0.	1.69219E-06	1.69219E-06	TONs	
Acetaldehyde	75070	factor:OEP A (auto calculate)	0	0.104312	0.	5.13006E-04	5.13006E-04	TONs	
Acrolein	107028	factor:OEP A (auto calculate)	0	0.00629	0.	3.09342E-05	3.09342E-05	TONs	
Anthracene	120127	factor:OEP A (auto calculate)	0	2.5432E-04	0.	1.25075E-06	1.25075E-06	TONs	
Benz[A]Anthracene	56553	factor:OEP A (auto calculate)	0	1.52E-06	0.	7.47536E-09	7.47536E-09	TONs	

		calculate)							
Benzene	71432	factor:OEP A (auto calculate)	0	0.129	0.	6.34422E-04	6.34422E-04	TONs	
Benzo[A]Pyrene	50328	factor:OEP A (auto calculate)	0	2.9172E- 05	0.	1.43468E-07	1.43468E-07	TONs	
Benzo[B]Fluoran thene	205992	factor:OEP A (auto calculate)	0	6.7388E- 06	0.	3.31414E-08	3.31414E-08	TONs	
Benzo[G,H,I,]Pe rylene	191242	factor:OEP A (auto calculate)	0	3.3252E- 05	0.	1.63533E-07	1.63533E-07	TONs	
Benzo[K]Fluoran thene	207089	factor:OEP A (auto calculate)	0	1.054E- 05	0.	5.18357E-08	5.18357E-08	TONs	
Butadiene, 1,3-	106990	factor:OEP A (auto calculate)	0	0.002658 8	0.	1.3076E-05	1.3076E-05	TONs	
Chrysene	218019	factor:OEP A (auto calculate)	0	1.2E-05	0.	5.9016E-08	5.9016E-08	TONs	
Dibenzo[A,H]Ant hracene	53703	factor:OEP A (auto calculate)	0	3.9644E- 05	0.	1.94969E-07	1.94969E-07	TONs	
Ethyl Benzene	100414	factor:OEP A (auto calculate)	0	0.00307	0.	1.50983E-05	1.50983E-05	TONs	
Fluoranthene	206440	factor:OEP A (auto calculate)	0	1.31E-04	0.	6.44258E-07	6.44258E-07	TONs	
Fluorene	86737	factor:OEP A (auto calculate)	0	0.003971 2	0.	1.95304E-05	1.95304E-05	TONs	
Formaldehyde	50000	factor:OEP A (auto calculate)	0	0.0663	0.	3.26063E-04	3.26063E-04	TONs	
Indeno[1,2,3- C,D]Pyrene	193395	factor:OEP A (auto calculate)	0	2.55E-05	0.	1.25409E-07	1.25409E-07	TONs	
Mercury, as HG; Alkyl & Aryl	7439976	factor:OEP A (auto	0	4.09904E -05	0.	2.01591E-07	2.01591E-07	TONs	

CMPNDS; Elemental & Inorganic Forms		calculate)							
Naphthalene	91203	factor:OEP A (auto calculate)	0	0.0129	0.	6.34422E-05	6.34422E-05	TONs	
PAH, 16-	40	factor:OEP A (auto calculate)	0	0.022848	0.	1.12366E-04	1.12366E-04	TONs	
Phenanthrene	85018	factor:OEP A (auto calculate)	0	0.003998 4	0.	1.96641E-05	1.96641E-05	TONs	
Pyrene	129000	factor:OEP A (auto calculate)	0	6.5008E- 04	0.	3.19709E-06	3.19709E-06	TONs	
Toluene	108883	factor:OEP A (auto calculate)	0	0.0386	0.	1.89835E-04	1.89835E-04	TONs	
Xylenes (Isomers and Mixture)	1330207	factor:OEP A (auto calculate)	0	0.00684	0.	3.36391E-05	3.36391E-05	TONs	

Emission Unit Summary: P010

Oct 11 2011, 11:22:44

Emissions Unit ID: P010

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	0.01	0.01	TONs	
SO2 - Sulfur Dioxide	SO2	X	0	0.38	0.38	TONs	
NOx - Nitrogen Oxides	NOX	X	0	2.42	2.42	TONs	
Organic Compounds	OC	X	0	0.07	0.07	TONs	
Pb - Lead	7439921	X	0	0.00	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0	0.05	0.05	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0	0.04	0.04	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0	0.04	0.04	TONs	
VOC - Volatile Organic Compounds	VOC		0	0.07	0.07	TONs	
Ammonia	NH3		0.	0.004464	0.004464	TONs	
CO - Carbon Monoxide	CO		0	0.64	0.64	TONs	
Total of Chargable Pollutants					2.92	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.	5.38805E-07	5.38805E-07	TONs
Acenaphthylene	208968	0.	1.91997E-06	1.91997E-06	TONs
Acetaldehyde	75070	0.	5.82061E-04	5.82061E-04	TONs
Acrolein	107028	0.	3.50982E-05	3.50982E-05	TONs
Anthracene	120127	0.	1.41911E-06	1.41911E-06	TONs
Benz[A]Anthracene	56553	0.	8.4816E-09	8.4816E-09	TONs

Benzene	71432	0.	7.1982E-04	7.1982E-04	TONs
Benzo[A]Pyrene	50328	0.	1.6278E-07	1.6278E-07	TONs
Benzo[B]Fluoranthene	205992	0.	3.76025E-08	3.76025E-08	TONs
Benzo[G,H,I,]Perylene	191242	0.	1.85546E-07	1.85546E-07	TONs
Benzo[K]Fluoranthene	207089	0.	5.88132E-08	5.88132E-08	TONs
Butadiene, 1,3-	106990	0.	1.48361E-05	1.48361E-05	TONs
Chrysene	218019	0.	6.696E-08	6.696E-08	TONs
Dibenzo[A,H]Anthracene	53703	0.	2.21214E-07	2.21214E-07	TONs
Ethyl Benzene	100414	0.	1.71306E-05	1.71306E-05	TONs
Fluoranthene	206440	0.	7.3098E-07	7.3098E-07	TONs
Fluorene	86737	0.	2.21593E-05	2.21593E-05	TONs
Formaldehyde	50000	0.	3.69954E-04	3.69954E-04	TONs
Indeno[1,2,3-C,D]Pyrene	193395	0.	1.4229E-07	1.4229E-07	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	2.28726E-07	2.28726E-07	TONs
Naphthalene	91203	0.	7.1982E-05	7.1982E-05	TONs
PAH, 16-	40	0.	1.27492E-04	1.27492E-04	TONs
Phenanthrene	85018	0.	2.23111E-05	2.23111E-05	TONs
Pyrene	129000	0.	3.62745E-06	3.62745E-06	TONs
Toluene	108883	0.	2.15388E-04	2.15388E-04	TONs
Xylenes (Isomers and Mixture)	1330207	0.	3.81672E-05	3.81672E-05	TONs

- **Processes**

- **Process & Emissions Detail**

Name: No. 2 Diesel Gen.

Source Classification Code (SCC): 2-01-001-02

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

Schedule Trade Secret:

Hours Per Day: 2

Days Per Week: 4

Weeks Per Year: 11

Winter (Dec - Feb)%: 0

Spring (March-May)%: 0

Summer (June-Aug)%: 2

Material	Material Action	Throughput	X Units
Distillate Oil (Diesel)	Burned	11.16	1000 GALLONS

Variable	Amount	Meaning
HCl	136000	Liquid Heat Content (Btu/gallons)

- **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	0.01	0.01	TONs	Emissions were estimated using factors found in AP-42, Section 3.4, "Large Stationary Diesel and All Stationary Dual-Fuel Engines", (10/96).
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0.38	0.38	TONs	Emissions were estimated using factors found in AP-42, Section 3.4, "Large Stationary Diesel and All Stationary Dual-Fuel Engines", (10/96).
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	2.42	2.42	TONs	Emissions were estimated using factors found in AP-42, Section 3.4, "Large Stationary Diesel and All Stationary Dual-Fuel Engines", (10/96).
Organic Compounds	OC	X emissions: ENG. JUDGEMENT			0	0.07	0.07	TONs	Emissions were estimated using factors found in AP-42, Section 3.4, "Large Stationary Diesel and All Stationary Dual-Fuel Engines", (10/96).
Pb - Lead	7439921	X emissions: ENG. JUDGEMENT			0	0.00	0.	TONs	Fuel oil emission factors taken from AP-42, Section 1.3, "Fuel Oil Combustion", (05/10).
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X emissions: ENG. JUDGEMENT			0	0.05	0.05	TONs	Emissions were estimated using factors found in AP-42, Section 3.4, "Large Stationary Diesel and All Stationary Dual-Fuel Engines", (10/96).
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	emissions: ENG. JUDGEMENT			0	0.04	0.04	TONs	Emissions were estimated using factors found in AP-42, Section 3.4, "Large Stationary Diesel and All Stationary Dual-Fuel Engines", (10/96).
PM2.5 (FIL) - Primary PM2.5,	PM25-FIL	emissions: ENG.			0	0.04	0.04	TONs	Emissions were estimated using factors found in AP-42, Section 3.4, "Large Stationary Diesel and All Stationary

Filterable Portion Only		JUDGEMENT								Dual-Fuel Engines", (10/96).
VOC - Volatile Organic Compounds	VOC	emissions: ENG. JUDGEMENT			0	0.07	0.07	TONs		Emissions were estimated using factors found in AP-42, Section 3.4, "Large Stationary Diesel and All Stationary Dual-Fuel Engines", (10/96).
Ammonia	NH3	factor:ENG . JUDGEMENT	0	0.8	0.	0.004464	0.004464	TONs		Ammonia emission factor taken from "Development and Selection of Ammonia Emission Factors", USEPA, Aug, 1994.
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0.64	0.64	TONs		Emissions were estimated using factors found in AP-42, Section 3.4, "Large Stationary Diesel and All Stationary Dual-Fuel Engines", (10/96).
Total of Chargable Pollutants							2.92	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:OEP A (auto calculate)	0	9.656E-05	0.	5.38805E-07	5.38805E-07	TONs	
Acenaphthylene	208968	factor:OEP A (auto calculate)	0	3.4408E-04	0.	1.91997E-06	1.91997E-06	TONs	
Acetaldehyde	75070	factor:OEP A (auto calculate)	0	0.104312	0.	5.82061E-04	5.82061E-04	TONs	
Acrolein	107028	factor:OEP A (auto calculate)	0	0.00629	0.	3.50982E-05	3.50982E-05	TONs	
Anthracene	120127	factor:OEP A (auto calculate)	0	2.5432E-04	0.	1.41911E-06	1.41911E-06	TONs	
Benz[A]Anthracene	56553	factor:OEP A (auto calculate)	0	1.52E-06	0.	8.4816E-09	8.4816E-09	TONs	

		calculate)							
Benzene	71432	factor:OEP A (auto calculate)	0	0.129	0.	7.1982E-04	7.1982E-04	TONs	
Benzo[A]Pyrene	50328	factor:OEP A (auto calculate)	0	2.9172E- 05	0.	1.6278E-07	1.6278E-07	TONs	
Benzo[B]Fluoran thene	205992	factor:OEP A (auto calculate)	0	6.7388E- 06	0.	3.76025E-08	3.76025E-08	TONs	
Benzo[G,H,I,]Pe rylene	191242	factor:OEP A (auto calculate)	0	3.3252E- 05	0.	1.85546E-07	1.85546E-07	TONs	
Benzo[K]Fluoran thene	207089	factor:OEP A (auto calculate)	0	1.054E- 05	0.	5.88132E-08	5.88132E-08	TONs	
Butadiene, 1,3-	106990	factor:OEP A (auto calculate)	0	0.002658 8	0.	1.48361E-05	1.48361E-05	TONs	
Chrysene	218019	factor:OEP A (auto calculate)	0	1.2E-05	0.	6.696E-08	6.696E-08	TONs	
Dibenzo[A,H]Ant hracene	53703	factor:OEP A (auto calculate)	0	3.9644E- 05	0.	2.21214E-07	2.21214E-07	TONs	
Ethyl Benzene	100414	factor:OEP A (auto calculate)	0	0.00307	0.	1.71306E-05	1.71306E-05	TONs	
Fluoranthene	206440	factor:OEP A (auto calculate)	0	1.31E-04	0.	7.3098E-07	7.3098E-07	TONs	
Fluorene	86737	factor:OEP A (auto calculate)	0	0.003971 2	0.	2.21593E-05	2.21593E-05	TONs	
Formaldehyde	50000	factor:OEP A (auto calculate)	0	0.0663	0.	3.69954E-04	3.69954E-04	TONs	
Indeno[1,2,3- C,D]Pyrene	193395	factor:OEP A (auto calculate)	0	2.55E-05	0.	1.4229E-07	1.4229E-07	TONs	
Mercury, as HG; Alkyl & Aryl	7439976	factor:OEP A (auto calculate)	0	4.09904E -05	0.	2.28726E-07	2.28726E-07	TONs	

CMPNDS; Elemental & Inorganic Forms		calculate)								
Naphthalene	91203	factor:OEP A (auto calculate)	0	0.0129	0.	7.1982E-05	7.1982E-05	TONs		
PAH, 16-	40	factor:OEP A (auto calculate)	0	0.022848	0.	1.27492E-04	1.27492E-04	TONs		
Phenanthrene	85018	factor:OEP A (auto calculate)	0	0.003998 4	0.	2.23111E-05	2.23111E-05	TONs		
Pyrene	129000	factor:OEP A (auto calculate)	0	6.5008E- 04	0.	3.62745E-06	3.62745E-06	TONs		
Toluene	108883	factor:OEP A (auto calculate)	0	0.0386	0.	2.15388E-04	2.15388E-04	TONs		
Xylenes (Isomers and Mixture)	1330207	factor:OEP A (auto calculate)	0	0.00684	0.	3.81672E-05	3.81672E-05	TONs		