SMTV FER/EIS Emissions Report (202001) for 2010
Worthington Steel Company
1409070344
April 13, 2011

2010 Emissions Summary Report : 202001

Oct 11 2011, 11:21:09

- Report Data

Report Category: SMTV

Submitted Date: 04/13/2011 Approved Date 04/14/2011

Reporting Year: 2010 Reporting State Approved

- Reports Included

FER: X ES: EIS: X

- Facility Emissions

Pollutant	Code	$	Fugitive Amount	Stack Amount	Total	Units
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		0.	0.17	0.17	TONs
SO2 - Sulfur Dioxide	SO2	X	0.	0.02	0.02	TONs
NOx - Nitrogen Oxides	NOX	X	0.	0.12	0.12	TONs
Organic Compounds	OC	X	4.78	0.2	4.98	TONs
Pb - Lead	7439921	X	0.	0.	0.	TONs
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.	0.13	0.13	TONs
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.	0.13	0.13	TONs
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.	0.13	0.13	TONs
VOC - Volatile Organic Compounds	VOC		4.78	0.16	4.94	TONs
Ammonia	NH3		0.	0.	0.	TONs
CO - Carbon Monoxide	CO		0.	1.94	1.94	TONs
Total of Chargable Pollutants					5.25	TONS

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

Pollutant	Code	Fugitive Amount	Stack Amount	Total	Units
Acenaphthene	83329	0.	2.4993E-08	2.4993E-08	TONs
Acenaphthylene	208968	0.	2.4993E-08	2.4993E-08	TONs

Acetaldehyde	75070	0.	5.80392E-04	5.80392E-04	TONs
Acrolein	107028	0.	4.9986E-04	4.9986E-04	TONs
Anthracene	120127	0.	3.3324E-08	3.3324E-08	TONs
Arsenic	7440382	0.	5.554E-06	5.554E-06	TONs
Benz[A]Anthracene	56553	0.	2.4993E-08	2.4993E-08	TONs
Benzene	71432	0.	5.8317E-05	5.8317E-05	TONs
Benzo[A]Pyrene	50328	0.	1.6662E-08	1.6662E-08	TONs
Benzo[B]Fluoranthene	205992	0.	2.4993E-08	2.4993E-08	TONs
Benzo[G,H,I,]Perylene	191242	0.	1.6662E-08	1.6662E-08	TONs
Benzo[K]Fluoranthene	207089	0.	2.4993E-08	2.4993E-08	TONs
Beryllium	7440417	0.	1.6662E-07	1.6662E-07	TONs
Cadmium	7440439	0.	3.0547E-05	3.0547E-05	TONs
Chromium	7440473	0.	3.8878E-05	3.8878E-05	TONs
Chrysene	218019	0.	2.4993E-08	2.4993E-08	TONs
Cobalt	7440484	0.	2.33268E-06	2.33268E-06	TONs
Dibenzo[A,H]Anthracene	53703	0.	1.6662E-08	1.6662E-08	TONs
Dimethylbenz[A]Anthracene, 7,12-	57976	0.	2.2216E-07	2.2216E-07	TONs
Fluoranthene	206440	0.	8.331E-08	8.331E-08	TONs
Fluorene	86737	0.	7.7756E-08	7.7756E-08	TONs
Formaldehyde	50000	0.	0.00208276	0.00208276	TONs
Hexane, N-	110543	0.	0.049986	0.049986	TONs
Hydrochloric Acid (Hydrogen Chloride)	7647010	0.	9.576E-04	9.576E-04	TONs
Indeno[1,2,3-C,D]Pyrene	193395	0.	2.4993E-08	2.4993E-08	TONs
MN - Manganese	7439965	0.	1.05526E-05	1.05526E-05	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	7.2202E-06	7.2202E-06	TONs
Methylcholanthrene, 3-	56495	0.	2.4993E-08	2.4993E-08	TONs
Methylnaphthalene, 2-	91576	0.	6.6648E-07	6.6648E-07	TONs
Naphthalene	91203	0.	1.69397E-05	1.69397E-05	TONs
Nickel	7440020	0.	5.8317E-05	5.8317E-05	TONs
Phenanthrene	85018	0.	4.7209E-07	4.7209E-07	TONs
Polycyclic Organic Matter	246	0.	1.80227E-05	1.80227E-05	TONs

Pyrene	129000	0.	1.3885E-07	1.3885E-07	TONs
Selenium	7782492	0.	3.3324E-07	3.3324E-07	TONs
Toluene	108883	0.	9.4418E-05	9.4418E-05	TONs

- **Attachments**

Description	Type	Public Document	Trade Seceret Document	Trade secret Justification

- **Notes**

User Name	Date	Note

Report Pollutant Summary: Total Emissions (Tons)

Unit	SCC Id	PM-CON	SO2	NOX	OC	7439921	PM-FIL	PM10-FIL	PM25-FIL	VOC	NH3	CO
B005	**1-02-006-02**	0.06	0.01	0.06	0.1	0.	0.04	0.04	0.04	0.08	0.	0.97
B006	**1-02-006-02**	0.06	0.01	0.06	0.1	0.	0.04	0.04	0.04	0.08	0.	0.97
P003	**4-01-003-99**	0.	0.	0.	0.13	0.	0.	0.	0.	0.13	0.	0.
P006	**4-02-018-99**	0.	0.	0.	0.47	0.	0.	0.	0.	0.47	0.	0.
P901	**4-02-018-99**	0.	0.	0.	4.18	0.	0.	0.	0.	4.18	0.	0.
P901	**3-03-009-10**	0.05	0.	0.	0.	0.	0.05	0.05	0.05	0.	0.	0.
Total		0.17	0.02	0.12	4.98	0.	0.13	0.13	0.13	4.94	0.	1.94

Emission Unit Summary: B005

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Emissions Unit ID: B005

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		0	0.06	0.06	TONs	
SO2 - Sulfur Dioxide	SO2	X	0	0.01	0.01	TONs	
NOx - Nitrogen Oxides	NOX	X	0	0.06	0.06	TONs	
Organic Compounds	OC	X	0	0.1	0.1	TONs	
Pb - Lead	7439921	X	0	0	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	0.04	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	0.08	0.08	TONs	
Ammonia	NH3		0	0	0.	TONs	
CO - Carbon Monoxide	CO		0	.97	0.97	TONs	
Total of Chargable Pollutants					0.21	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.	1.24965E-08	1.24965E-08	TONs
Acenaphthylene	208968	0.	1.24965E-08	1.24965E-08	TONs
Acetaldehyde	75070	0.	2.90196E-04	2.90196E-04	TONs
Acrolein	107028	0.	2.4993E-04	2.4993E-04	TONs
Anthracene	120127	0.	1.6662E-08	1.6662E-08	TONs
Arsenic	7440382	0.	2.777E-06	2.777E-06	TONs

Benz[A]Anthracene	56553	0.	1.24965E-08	1.24965E-08	TONs
Benzene	71432	0.	2.91585E-05	2.91585E-05	TONs
Benzo[A]Pyrene	50328	0.	8.331E-09	8.331E-09	TONs
Benzo[B]Fluoranthene	205992	0.	1.24965E-08	1.24965E-08	TONs
Benzo[G,H,I,]Perylene	191242	0.	8.331E-09	8.331E-09	TONs
Benzo[K]Fluoranthene	207089	0.	1.24965E-08	1.24965E-08	TONs
Beryllium	7440417	0.	8.331E-08	8.331E-08	TONs
Cadmium	7440439	0.	1.52735E-05	1.52735E-05	TONs
Chromium	7440473	0.	1.9439E-05	1.9439E-05	TONs
Chrysene	218019	0.	1.24965E-08	1.24965E-08	TONs
Cobalt	7440484	0.	1.16634E-06	1.16634E-06	TONs
Dibenzo[A,H]Anthracene	53703	0.	8.331E-09	8.331E-09	TONs
Dimethylbenz[A]Anthracene, 7,12-	57976	0.	1.1108E-07	1.1108E-07	TONs
Fluoranthene	206440	0.	4.1655E-08	4.1655E-08	TONs
Fluorene	86737	0.	3.8878E-08	3.8878E-08	TONs
Formaldehyde	50000	0.	0.00104138	0.00104138	TONs
Hexane, N-	110543	0.	0.024993	0.024993	TONs
Indeno[1,2,3-C,D]Pyrene	193395	0.	1.24965E-08	1.24965E-08	TONs
MN - Manganese	7439965	0.	5.2763E-06	5.2763E-06	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	3.6101E-06	3.6101E-06	TONs
Methylcholanthrene, 3-	56495	0.	1.24965E-08	1.24965E-08	TONs
Methylnaphthalene, 2-	91576	0.	3.3324E-07	3.3324E-07	TONs
Naphthalene	91203	0.	8.46985E-06	8.46985E-06	TONs
Nickel	7440020	0.	2.91585E-05	2.91585E-05	TONs
Phenanthrene	85018	0.	2.36045E-07	2.36045E-07	TONs
Polycyclic Organic Matter	246	0.	9.01136E-06	9.01136E-06	TONs
Pyrene	129000	0.	6.9425E-08	6.9425E-08	TONs
Selenium	7782492	0.	1.6662E-07	1.6662E-07	TONs
Toluene	108883	0.	4.7209E-05	4.7209E-05	TONs

- **Processes**

- Process & Emissions Detail

Name: 20.5 Boiler # 1

Source Classification Code (SCC): 1-02-006-02

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 5

Weeks Per Year: 52

Hours Per Year: 6240

Winter (Dec - Feb)%: 20

Spring (March-May)%: 20

Summer (June-Aug)%: 28

Fall (Sept-Nov)%: 32

Material	Material Action	Throughput	X Units
Natural Gas	Burned	27.77	MILLION CUBIC FEET

Variable	Amount	Meaning
HCg	1000	Gas Heat Content (Btu/Cubic Feet)

- Process Emissions

Pollutant	Code	$	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		emissions: ENG. JUDGEMENT			0	0.06	0.06	TONs	
SO2 - Sulfur Dioxide	SO2	X	emissions: ENG. JUDGEMENT			0	0.01	0.01	TONs	
NOx - Nitrogen Oxides	NOX	X	emissions: ENG. JUDGEMENT			0	0.06	0.06	TONs	
Organic Compounds	OC	X	emissions: ENG.			0	0.1	0.1	TONs	

			JUDGEMENT							
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	0.04	0.04	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0	0.04	0.04	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0	0.04	0.04	TONs	
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0	0.08	0.08	TONs	
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	.97	0.97	TONs	
Total of Chargable Pollutants								0.21	TONS	

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- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Acenaphthene	83329	factor:OEPA (auto calculate)	0	9E-07	0.	1.24965E-08	1.24965E-08	TONs	

Acenaphthylene	208968	factor:OEPA (auto calculate)	0	9E-07	0.	1.24965E-08	1.24965E-08	TONs	
Acetaldehyde	75070	factor:OEPA (auto calculate)	0	0.0209	0.	2.90196E-04	2.90196E-04	TONs	
Acrolein	107028	factor:OEPA (auto calculate)	0	0.018	0.	2.4993E-04	2.4993E-04	TONs	
Anthracene	120127	factor:OEPA (auto calculate)	0	1.2E-06	0.	1.6662E-08	1.6662E-08	TONs	
Arsenic	7440382	factor:OEPA (auto calculate)	0	2E-04	0.	2.777E-06	2.777E-06	TONs	
Benz[A]Anthracene	56553	factor:OEPA (auto calculate)	0	9E-07	0.	1.24965E-08	1.24965E-08	TONs	
Benzene	71432	factor:OEPA (auto calculate)	0	0.0021	0.	2.91585E-05	2.91585E-05	TONs	
Benzo[A]Pyrene	50328	factor:OEPA (auto calculate)	0	6E-07	0.	8.331E-09	8.331E-09	TONs	
Benzo[B]Fluoranthene	205992	factor:OEPA (auto calculate)	0	9E-07	0.	1.24965E-08	1.24965E-08	TONs	
Benzo[G,H,I,]Perylene	191242	factor:OEPA (auto calculate)	0	6E-07	0.	8.331E-09	8.331E-09	TONs	
Benzo[K]Fluoranthene	207089	factor:OEPA (auto calculate)	0	9E-07	0.	1.24965E-08	1.24965E-08	TONs	
Beryllium	7440417	factor:OEPA (auto calculate)	0	6E-06	0.	8.331E-08	8.331E-08	TONs	
Cadmium	7440439	factor:OEPA (auto calculate)	0	0.0011	0.	1.52735E-05	1.52735E-05	TONs	
Chromium	7440473	factor:OEPA (auto calculate)	0	0.0014	0.	1.9439E-05	1.9439E-05	TONs	

Chrysene	218019	factor:OEPA (auto calculate)	0	9E-07	0.	1.24965E-08	1.24965E-08	TONs	
Cobalt	7440484	factor:OEPA (auto calculate)	0	8.4E-05	0.	1.16634E-06	1.16634E-06	TONs	
Dibenzo[A,H]Anthracene	53703	factor:OEPA (auto calculate)	0	6E-07	0.	8.331E-09	8.331E-09	TONs	
Dimethylbenz[A]Anthracene, 7,12-	57976	factor:OEPA (auto calculate)	0	8E-06	0.	1.1108E-07	1.1108E-07	TONs	
Fluoranthene	206440	factor:OEPA (auto calculate)	0	3E-06	0.	4.1655E-08	4.1655E-08	TONs	
Fluorene	86737	factor:OEPA (auto calculate)	0	2.8E-06	0.	3.8878E-08	3.8878E-08	TONs	
Formaldehyde	50000	factor:OEPA (auto calculate)	0	0.075	0.	0.00104138	0.00104138	TONs	
Hexane, N-	110543	factor:OEPA (auto calculate)	0	1.8	0.	0.024993	0.024993	TONs	
Indeno[1,2,3-C,D]Pyrene	193395	factor:OEPA (auto calculate)	0	9E-07	0.	1.24965E-08	1.24965E-08	TONs	
MN - Manganese	7439965	factor:OEPA (auto calculate)	0	3.8E-04	0.	5.2763E-06	5.2763E-06	TONs	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	factor:OEPA (auto calculate)	0	2.6E-04	0.	3.6101E-06	3.6101E-06	TONs	
Methylcholanthrene, 3-	56495	factor:OEPA (auto calculate)	0	9E-07	0.	1.24965E-08	1.24965E-08	TONs	
Methylnaphthalene, 2-	91576	factor:OEPA (auto calculate)	0	2.4E-05	0.	3.3324E-07	3.3324E-07	TONs	
Naphthalene	91203	factor:OEP	0	6.1E-04	0.	8.46985E-06	8.46985E-06	TONs	

		A (auto calculate)							
Nickel	7440020	factor:OEP A (auto calculate)	0	0.0021	0.	2.91585E-05	2.91585E-05	TONs	
Phenanthrene	85018	factor:OEP A (auto calculate)	0	1.7E-05	0.	2.36045E-07	2.36045E-07	TONs	
Polycyclic Organic Matter	246	factor:OEP A (auto calculate)	0	6.49E-04	0.	9.01136E-06	9.01136E-06	TONs	
Pyrene	129000	factor:OEP A (auto calculate)	0	5E-06	0.	6.9425E-08	6.9425E-08	TONs	
Selenium	7782492	factor:OEP A (auto calculate)	0	1.2E-05	0.	1.6662E-07	1.6662E-07	TONs	
Toluene	108883	factor:OEP A (auto calculate)	0	0.0034	0.	4.7209E-05	4.7209E-05	TONs	

Emission Unit Summary: B006

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Emissions Unit ID: B006

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		0	0.06	0.06	TONs	
SO2 - Sulfur Dioxide	SO2	X	0	0.01	0.01	TONs	
NOx - Nitrogen Oxides	NOX	X	0	0.06	0.06	TONs	
Organic Compounds	OC	X	0	0.10	0.1	TONs	
Pb - Lead	7439921	X	0	0	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	.04	0.04	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0	.04	0.04	TONs	
VOC - Volatile Organic Compounds	VOC		0	0.08	0.08	TONs	
Ammonia	NH3		0	0	0.	TONs	
CO - Carbon Monoxide	CO		0	.97	0.97	TONs	
Total of Chargable Pollutants					0.21	TONS	

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Pollutant	Code	Fugitive Amount	Stack Amount	Total	Units
Acenaphthene	83329	0.	1.24965E-08	1.24965E-08	TONs
Acenaphthylene	208968	0.	1.24965E-08	1.24965E-08	TONs
Acetaldehyde	75070	0.	2.90196E-04	2.90196E-04	TONs
Acrolein	107028	0.	2.4993E-04	2.4993E-04	TONs
Anthracene	120127	0.	1.6662E-08	1.6662E-08	TONs
Arsenic	7440382	0.	2.777E-06	2.777E-06	TONs

Benz[A]Anthracene	56553	0.	1.24965E-08	1.24965E-08	TONs
Benzene	71432	0.	2.91585E-05	2.91585E-05	TONs
Benzo[A]Pyrene	50328	0.	8.331E-09	8.331E-09	TONs
Benzo[B]Fluoranthene	205992	0.	1.24965E-08	1.24965E-08	TONs
Benzo[G,H,I,]Perylene	191242	0.	8.331E-09	8.331E-09	TONs
Benzo[K]Fluoranthene	207089	0.	1.24965E-08	1.24965E-08	TONs
Beryllium	7440417	0.	8.331E-08	8.331E-08	TONs
Cadmium	7440439	0.	1.52735E-05	1.52735E-05	TONs
Chromium	7440473	0.	1.9439E-05	1.9439E-05	TONs
Chrysene	218019	0.	1.24965E-08	1.24965E-08	TONs
Cobalt	7440484	0.	1.16634E-06	1.16634E-06	TONs
Dibenzo[A,H]Anthracene	53703	0.	8.331E-09	8.331E-09	TONs
Dimethylbenz[A]Anthracene, 7,12-	57976	0.	1.1108E-07	1.1108E-07	TONs
Fluoranthene	206440	0.	4.1655E-08	4.1655E-08	TONs
Fluorene	86737	0.	3.8878E-08	3.8878E-08	TONs
Formaldehyde	50000	0.	0.00104138	0.00104138	TONs
Hexane, N-	110543	0.	0.024993	0.024993	TONs
Indeno[1,2,3-C,D]Pyrene	193395	0.	1.24965E-08	1.24965E-08	TONs
MN - Manganese	7439965	0.	5.2763E-06	5.2763E-06	TONs
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	0.	3.6101E-06	3.6101E-06	TONs
Methylcholanthrene, 3-	56495	0.	1.24965E-08	1.24965E-08	TONs
Methylnaphthalene, 2-	91576	0.	3.3324E-07	3.3324E-07	TONs
Naphthalene	91203	0.	8.46985E-06	8.46985E-06	TONs
Nickel	7440020	0.	2.91585E-05	2.91585E-05	TONs
Phenanthrene	85018	0.	2.36045E-07	2.36045E-07	TONs
Polycyclic Organic Matter	246	0.	9.01136E-06	9.01136E-06	TONs
Pyrene	129000	0.	6.9425E-08	6.9425E-08	TONs
Selenium	7782492	0.	1.6662E-07	1.6662E-07	TONs
Toluene	108883	0.	4.7209E-05	4.7209E-05	TONs

- **Processes**

- Process & Emissions Detail

Name: 20.5 Boiler #2

Source Classification Code (SCC): 1-02-006-02

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 5

Weeks Per Year: 52

Hours Per Year: 6240

Winter (Dec - Feb)%: 20

Spring (March-May)%: 20

Summer (June-Aug)%: 28

Fall (Sept-Nov)%: 32

Material	Material Action	Throughput	X Units
Natural Gas	Burned	27.77	MILLION CUBIC FEET

Variable	Amount	Meaning
HCg	1000	Gas Heat Content (Btu/Cubic Feet)

- Process Emissions

Pollutant	Code	$	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		emissions: ENG. JUDGEMENT			0	0.06	0.06	TONs	
SO2 - Sulfur Dioxide	SO2	X	emissions: ENG. JUDGEMENT			0	0.01	0.01	TONs	
NOx - Nitrogen Oxides	NOX	X	emissions: ENG. JUDGEMENT			0	0.06	0.06	TONs	
Organic Compounds	OC	X	emissions: ENG.			0	0.10	0.1	TONs	

			JUDGEMENT							
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	0.04	0.04	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0	.04	0.04	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0	.04	0.04	TONs	
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0	0.08	0.08	TONs	
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	.97	0.97	TONs	
Total of Chargable Pollutants								0.21	TONS	

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

- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Acenaphthene	83329	factor:OEPA (auto calculate)	0	9E-07	0.	1.24965E-08	1.24965E-08	TONs	

Acenaphthylene	208968	factor:OEPA (auto calculate)	0	9E-07	0.	1.24965E-08	1.24965E-08	TONs	
Acetaldehyde	75070	factor:OEPA (auto calculate)	0	0.0209	0.	2.90196E-04	2.90196E-04	TONs	
Acrolein	107028	factor:OEPA (auto calculate)	0	0.018	0.	2.4993E-04	2.4993E-04	TONs	
Anthracene	120127	factor:OEPA (auto calculate)	0	1.2E-06	0.	1.6662E-08	1.6662E-08	TONs	
Arsenic	7440382	factor:OEPA (auto calculate)	0	2E-04	0.	2.777E-06	2.777E-06	TONs	
Benz[A]Anthracene	56553	factor:OEPA (auto calculate)	0	9E-07	0.	1.24965E-08	1.24965E-08	TONs	
Benzene	71432	factor:OEPA (auto calculate)	0	0.0021	0.	2.91585E-05	2.91585E-05	TONs	
Benzo[A]Pyrene	50328	factor:OEPA (auto calculate)	0	6E-07	0.	8.331E-09	8.331E-09	TONs	
Benzo[B]Fluoranthene	205992	factor:OEPA (auto calculate)	0	9E-07	0.	1.24965E-08	1.24965E-08	TONs	
Benzo[G,H,I,]Perylene	191242	factor:OEPA (auto calculate)	0	6E-07	0.	8.331E-09	8.331E-09	TONs	
Benzo[K]Fluoranthene	207089	factor:OEPA (auto calculate)	0	9E-07	0.	1.24965E-08	1.24965E-08	TONs	
Beryllium	7440417	factor:OEPA (auto calculate)	0	6E-06	0.	8.331E-08	8.331E-08	TONs	
Cadmium	7440439	factor:OEPA (auto calculate)	0	0.0011	0.	1.52735E-05	1.52735E-05	TONs	
Chromium	7440473	factor:OEPA (auto calculate)	0	0.0014	0.	1.9439E-05	1.9439E-05	TONs	

Chrysene	218019	factor:OEPA (auto calculate)	0	9E-07	0.	1.24965E-08	1.24965E-08	TONs	
Cobalt	7440484	factor:OEPA (auto calculate)	0	8.4E-05	0.	1.16634E-06	1.16634E-06	TONs	
Dibenzo[A,H]Anthracene	53703	factor:OEPA (auto calculate)	0	6E-07	0.	8.331E-09	8.331E-09	TONs	
Dimethylbenz[A]Anthracene, 7,12-	57976	factor:OEPA (auto calculate)	0	8E-06	0.	1.1108E-07	1.1108E-07	TONs	
Fluoranthene	206440	factor:OEPA (auto calculate)	0	3E-06	0.	4.1655E-08	4.1655E-08	TONs	
Fluorene	86737	factor:OEPA (auto calculate)	0	2.8E-06	0.	3.8878E-08	3.8878E-08	TONs	
Formaldehyde	50000	factor:OEPA (auto calculate)	0	0.075	0.	0.00104138	0.00104138	TONs	
Hexane, N-	110543	factor:OEPA (auto calculate)	0	1.8	0.	0.024993	0.024993	TONs	
Indeno[1,2,3-C,D]Pyrene	193395	factor:OEPA (auto calculate)	0	9E-07	0.	1.24965E-08	1.24965E-08	TONs	
MN - Manganese	7439965	factor:OEPA (auto calculate)	0	3.8E-04	0.	5.2763E-06	5.2763E-06	TONs	
Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms	7439976	factor:OEPA (auto calculate)	0	2.6E-04	0.	3.6101E-06	3.6101E-06	TONs	
Methylcholanthrene, 3-	56495	factor:OEPA (auto calculate)	0	9E-07	0.	1.24965E-08	1.24965E-08	TONs	
Methylnaphthalene, 2-	91576	factor:OEPA (auto calculate)	0	2.4E-05	0.	3.3324E-07	3.3324E-07	TONs	
Naphthalene	91203	factor:OEP	0	6.1E-04	0.	8.46985E-06	8.46985E-06	TONs	

		A (auto calculate)							
Nickel	7440020	factor:OEP A (auto calculate)	0	0.0021	0.	2.91585E-05	2.91585E-05	TONs	
Phenanthrene	85018	factor:OEP A (auto calculate)	0	1.7E-05	0.	2.36045E-07	2.36045E-07	TONs	
Polycyclic Organic Matter	246	factor:OEP A (auto calculate)	0	6.49E-04	0.	9.01136E-06	9.01136E-06	TONs	
Pyrene	129000	factor:OEP A (auto calculate)	0	5E-06	0.	6.9425E-08	6.9425E-08	TONs	
Selenium	7782492	factor:OEP A (auto calculate)	0	1.2E-05	0.	1.6662E-07	1.6662E-07	TONs	
Toluene	108883	factor:OEP A (auto calculate)	0	0.0034	0.	4.7209E-05	4.7209E-05	TONs	

Emission Unit Summary: P003

Oct 11 2011, 11:21:09

Emissions Unit ID: P003

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X	0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X	0	0	0.	TONs	
Organic Compounds	OC	X	0.13	0	0.13	TONs	
Pb - Lead	7439921	X	0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0	0	0.	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0	0	0.	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0	0	0.	TONs	
VOC - Volatile Organic Compounds	VOC		0.13	0	0.13	TONs	
Ammonia	NH3		0	0	0.	TONs	
CO - Carbon Monoxide	CO		0	0	0.	TONs	
Total of Chargable Pollutants					0.13	TONS	

- Processes

- Process & Emissions Detail

Name: Clean Wipe Solvent

Source Classification Code (SCC): 4-01-003-99

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 5

Weeks Per Year: 52

Hours Per Year: 6240

Winter (Dec - Feb)%: 25

Spring (March-May)%: 25

Summer (June-Aug)%: 25

Fall (Sept-Nov)%: 25

Material	Material Action	Throughput	X Units
Solvent	Consumed	0.09	TONs

- **Process Emissions**

Pollutant	Code	$	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
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			0.13	0	0.13	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	0	0.	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0.13	0	0.13	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								0.13	TONS	

Emission Unit Summary: P006

Oct 11 2011, 11:21:09

Emissions Unit ID: P006

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X	0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X	0	0	0.	TONs	
Organic Compounds	OC	X	0.47	0	0.47	TONs	
Pb - Lead	7439921	X	0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0	0	0.	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0	0	0.	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0	0	0.	TONs	
VOC - Volatile Organic Compounds	VOC		0.47	0	0.47	TONs	
Ammonia	NH3		0	0	0.	TONs	
CO - Carbon Monoxide	CO		0	0	0.	TONs	
Total of Chargable Pollutants					0.47	TONS	

- Processes

- Process & Emissions Detail

Name: Clean Coat Line

Source Classification Code (SCC): 4-02-018-99

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 5

Weeks Per Year: 52

Hours Per Year: 6240

Winter (Dec - Feb)%: 15

Spring (March-May)%: 17

Summer (June-Aug)%: 25

Fall (Sept-Nov)%: 43

Material	Material Action	Throughput	X Units
Solvent in Coating	Used	0.49	TONs

- **Process Emissions**

Pollutant	Code	$	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
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			0.47	0	0.47	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	0	0.	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0.47	0	0.47	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								0.47	TONS	

Emission Unit Summary: P901

Oct 11 2011, 11:21:09

Emissions Unit ID: P901

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		0.	0.05	0.05	TONs	
SO2 - Sulfur Dioxide	SO2	X	0.	0.	0.	TONs	
NOx - Nitrogen Oxides	NOX	X	0.	0.	0.	TONs	
Organic Compounds	OC	X	4.18	0.	4.18	TONs	
Pb - Lead	7439921	X	0.	0.	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.	0.05	0.05	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.	0.05	0.05	TONs	
VOC - Volatile Organic Compounds	VOC		4.18	0.	4.18	TONs	
Ammonia	NH3		0.	0.	0.	TONs	
CO - Carbon Monoxide	CO		0.	0.	0.	TONs	
Total of Chargable Pollutants					4.23	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
Hydrochloric Acid (Hydrogen Chloride)	7647010	0.	9.576E-04	9.576E-04	TONs

- Processes

- Process & Emissions Detail

Name: Oil Solvent

Source Classification Code (SCC): 4-02-018-99

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day:	24	Winter (Dec - Feb)%:	20
Days Per Week:	5	Spring (March-May)%:	20
Weeks Per Year:	52	Summer (June-Aug)%:	28
Hours Per Year:	6240	Fall (Sept-Nov)%:	32

Material	Material Action	Throughput	X Units
Solvent in Coating	Used	2.56	TONs

- Process Emissions

Pollutant	Code	$	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
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			4.18	0	4.18	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	0	0.	TONs	
PM10 (Filt) - Primary PM10,	PM10-FIL		emissions: ENG.			0	0	0.	TONs	

Filterable Portion Only			JUDGEMENT							
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			4.18	0	4.18	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								4.18	TONS	

- Process & Emissions Detail

Name: Scrubber

Source Classification Code (SCC): 3-03-009-10

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 5

Weeks Per Year: 52

Hours Per Year: 6240

Winter (Dec - Feb)%: 26

Spring (March-May)%: 25

Summer (June-Aug)%: 25

Fall (Sept-Nov)%: 24

Material	Material Action	Throughput	X Units
Material	Produced	348218	TONs

- Process Emissions

Pollutant	Code	$	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation

PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron)	PM-CON		emissions: ENG. JUDGEMENT			0	0.05	0.05	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	0.05	0.05	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0	0.05	0.05	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0	0.05	0.05	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								0.05	TONS	

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Process Emissions

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Hydrochloric Acid (Hydrogen Chloride)	7647010	factor:OEPA (auto calculate)	0	5.5E-04	0.	9.576E-04	9.576E-04	TONs	