

**TV FER/EIS/ES Emissions Report (200859) for 2010**  
**Cast-Fab Technologies, Inc.**  
**1431073342**  
**April 13, 2011**



- **Attachments**

Description	Type	Public Document	Trade Secret Document	Trade secret Justification
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- **Notes**

User Name	Date	Note
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**Emission Units Without Detailed Emissions**

Oct 7 2011, 13:08:57

Emission Unit	Why Excluded	Company Equipment ID
TMP166149	Exemption Status = Permit Exempt	Binder/Resin Storage Tanks
TMP162078	Less Than Reporting Requirement	P037
TMP161083	Less Than Reporting Requirement	F013
B002	Less Than Reporting Requirement	6.0 MMBtu Annealing Furnace
F014	Less Than Reporting Requirement	Inoculation Process
F021	Less Than Reporting Requirement	Small Pouring and Cooling
F023	Less Than Reporting Requirement	Medium Mold Mixer & Mold-making
F024	Less Than Reporting Requirement	Large Mold Mixer & Mold-making-Fordath
K003	Less Than Reporting Requirement	Foundry Coating Line No. 1
K006	Less Than Reporting Requirement	Foundry Coating Line No. 2
K010	Less Than Reporting Requirement	Foundry Coating Line No. 3
K011	Less Than Reporting Requirement	Foundry Coating Line No. 4
K012	Less Than Reporting Requirement	Paint Applicator - Medium/Large Castings
K013	Less Than Reporting Requirement	Paint Applicator - Medium/Large Castings
K014	Less Than Reporting Requirement	Paint Applicator - Medium/Large Castings
K015	Less Than Reporting Requirement	Paint Applicator - Medium/Large Castings
K016	Less Than Reporting Requirement	Paint Applicator - Heavy Fab
K017	Less Than Reporting Requirement	Fabrication Coating Line No. 5
N001	Less Than Reporting Requirement	N001
P014	Less Than Reporting Requirement	Medium Mold Line Abrasive Clean
P015	Less Than Reporting Requirement	Large Mold Line Abrasive Clean

P016	Less Than Reporting Requirement	Small Mold Line Abrasive Clean
P029	Less Than Reporting Requirement	Small/Medium Line Grinding Booths
P030	Less Than Reporting Requirement	Small Mold Line Casting Shakeout
P034	Less Than Reporting Requirement	Swing Grinding
P035	Exemption Status = De minimis	Core-Mold Sand Unloading
P036	Less Than Reporting Requirement	Small Mold Line Mold-making and Sand Preparation
P039	Less Than Reporting Requirement	Preheater
Z006	Exemption Status = Permit Exempt	Binder/Resin Storage Tanks
Z008	Exemption Status = Permit Exempt	Roadway & Parking Areas
Z009	Exemption Status = Permit Exempt	Maintenance Parts Washer
Z010	Exemption Status = Permit Exempt	Machining Department Operations
Z011	Exemption Status = Permit Exempt	Maintenance Welding
Z012	Exemption Status = Permit Exempt	Light Fabrication Welding
Z013	Exemption Status = Permit Exempt	Heavy Fabrication Welding
Z021	Less Than Reporting Requirement	Large Mold Mixer & Mold-making-Palmer
Z022	Less Than Reporting Requirement	Small Core Pepset Mixer & Core-making
Z036	Less Than Reporting Requirement	Small Core Pepset C/M Release Agent
Z039	Exemption Status = De minimis	Pattern Shop

**Report Pollutant Summary: Total Emissions (Tons)**

Unit	SCC Id	PM-CON	SO2	NOX	OC	7439921	PM-FIL	PM10-FIL	PM25-FIL	VOC	NH3	CO
<b>F015/16/18 2008</b>	<b>3-04-003-03</b>	1.72209	0.	0.	0.	0.0478728	3.26466	3.135	2.008	0.	0.	0.
<b>F019</b>	<b>3-04-003-20</b>	1.71716	4.4212	0.039475	0.55265	0.	3.25669	2.99615	1.74795	0.55265	0.	23.6455
<b>F020</b>	<b>3-04-003-20</b>	1.11621	2.87392	0.02566	0.35924	0.	2.11695	1.94759	1.1393	0.35924	0.	15.3703
<b>F022</b>	<b>3-04-003-15</b>	1.36258	0.	0.	0.	2.84364E-05	2.58692	1.55347	0.849142	0.	0.	0.
<b>K001</b>	<b>4-02-025-01</b>	0.	0.	0.	4.328	2.7E-05	0.193	0.193	0.193	4.328	0.	0.
<b>K001</b>	<b>4-02-010-01</b>	0.0053865	5.67E-04	0.0945	0.010395	4.725E-07	0.0017955	0.0017955	0.0017955	0.0051975	0.	0.07938
<b>P026</b>	<b>3-04-003-50</b>	0.461375	0.	0.	0.0263135	5.42635E-04	0.712164	0.605329	0.17187	0.0263135	0.	0.
<b>P031</b>	<b>3-04-003-31</b>	0.0744302	0.	0.	3.07902	9.27811E-05	0.116904	0.0818213	0.0334433	3.07902	0.	0.

<b>P032</b>	<b>3-04-003-31</b>	0.114508	0.	0.	4.73694	1.42472E-04	0.179852	0.125879	0.0514511	4.73694	0.	0.
<b>P038</b>	<b>3-04-003-50</b>	0.546097	0.	0.	0.	6.58077E-04	0.863634	0.734291	0.203414	0.	0.	0.
<b>Z034</b>	<b>3-04-003-30</b>	0.	0.	0.	1.2149	0.	0.	0.	0.	1.2149	0.	0.
<b>Z035</b>	<b>3-04-003-30</b>	0.	0.	0.	1.28757	0.	0.	0.	0.	1.28757	0.	0.
<b>Total</b>		7.11984	7.29569	0.159635	15.595	0.0493647	13.2926	11.3743	6.39936	15.5898	0.	39.0952



- **Process & Emissions Detail**

Source Classification Code (SCC): 3-04-003-03

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

Schedule Trade Secret:

Hours Per Day: 9

Winter (Dec - Feb)%: 23

Days Per Week: 5

Spring (March-May)%: 25

Weeks Per Year: 52

Summer (June-Aug)%: 23

Hours Per Year: 2025

Fall (Sept-Nov)%: 29

Material	Material Action	Throughput	X Units
Metal	Produced	13298	TONs

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	factor:ENG. JUDGEMENT	0	0.518	1.72209	0.	1.72209	TONs	Ohio RACM, Table 2.7-1., EPA's PM Calculator for Speciation
SO2 - Sulfur Dioxide	SO2	X emissions:ENG. JUDGEMENT			0	0	0.	TONs	Negligible emissions per AP-42.
NOx - Nitrogen Oxides	NOX	X emissions:ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or Ohio RACM.
Organic Compounds	OC	X emissions:ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or Ohio RACM.
Pb - Lead	7439921	X factor:ENG. JUDGEMENT	0	0.0144	0.0478728	0.	0.0478728	TONs	CERP Emissions Study WBS #1.2.GSA3 from CERP Testing: Max of Two tests, one for gray iron and one for high temp ductile iron
PE (Filt) -	PM-FIL	X factor:ENG. JUDGEMENT	0	0.982	3.26466	0.	3.26466	TONs	Ohio RACM, Table 2.7-1. EPA's PM Calculator for Speciation

Primary PM, Filterable Portion Only		JUDGEMENT							
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	factor:ENG JUDGEMENT	0	0.943	3.135	0.	3.135	TONs	Ohio RACM, Table 2.7-1. EPA's PM Calculator for Speciation
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	factor:ENG JUDGEMENT	0	0.604	2.008	0.	2.008	TONs	Ohio RACM, Table 2.7-1. EPA's PM Calculator for Speciation
VOC - Volatile Organic Compounds	VOC	emissions:ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or Ohio RACM.
Ammonia	NH3	emissions:ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or Ohio RACM.
CO - Carbon Monoxide	CO	emissions:ENG. JUDGEMENT			0	0	0.	TONs	Negligible emissions per AP-42.
Total of Chargable Pollutants							3.31253	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
MN - Manganese	7439965	factor:OEP A (auto calculate)	0	0.0225	0.0748012	0.	0.0748012	TONs	

## Emission Unit Summary: F019

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Emissions Unit ID: F019

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		1.71716	0.	1.71716	TONs	
SO2 - Sulfur Dioxide	SO2	X	4.4212	0.	4.4212	TONs	
NOx - Nitrogen Oxides	NOX	X	0.039475	0.	0.039475	TONs	
Organic Compounds	OC	X	0.55265	0.	0.55265	TONs	
Pb - Lead	7439921	X	0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	3.25669	0.	3.25669	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		2.99615	0.	2.99615	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		1.74795	0.	1.74795	TONs	
VOC - Volatile Organic Compounds	VOC		0.55265	0.	0.55265	TONs	
Ammonia	NH3		0	0	0.	TONs	
CO - Carbon Monoxide	CO		23.6455	0.	23.6455	TONs	
Total of Chargable Pollutants					8.27002	TONS	

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.&nbsp;  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
Benzene	71432	0.322906	0.	0.322906	TONs

### - Processes

#### - Process & Emissions Detail

Name: L\_Pouring & Cooling

Source Classification Code (SCC): 3-04-003-20

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

Schedule Trade Secret:

Hours Per Day: 9

Winter (Dec - Feb)%: 23

Days Per Week: 5

Spring (March-May)%: 25

Weeks Per Year: 52

Summer (June-Aug)%: 23

Hours Per Year: 2025

Fall (Sept-Nov)%: 29

Material	Material Action	Throughput	X Units
Metal	Charged	7895	TONs

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Unit s	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	factor:ENG . JUDGEMENT	0	1.45	1.71716	0.	1.71716	TONs	EPA's PM Calculator for Speciation
SO2 - Sulfur Dioxide	SO2	X factor:ENG . JUDGEMENT	0	1.12	4.4212	0.	4.4212	TONs	Ashland Furan/Iron No-Bake NBF2 and NBF4 Test Plan #RE100123 EB
NOx - Nitrogen Oxides	NOX	X factor:ENG . JUDGEMENT	0	0.01	0.039475	0.	0.039475	TONs	FIRE 6.25
Organic Compounds	OC	X factor:ENG . JUDGEMENT	0	0.14	0.55265	0.	0.55265	TONs	FIRE 6.25, higher than CERP
Pb - Lead	7439921	X emissions:ENG . JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X factor:ENG . JUDGEMENT	0	2.75	3.25669	0.	3.25669	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
PM10 (Filt) - Primary PM10,	PM10-FIL	factor:ENG .	0	2.53	2.99615	0.	2.99615	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation

Filterable Portion Only		JUDGEMENT							
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	factor:ENG . JUDGEMENT	0	1.476	1.74795	0.	1.74795	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
VOC - Volatile Organic Compounds	VOC	factor:ENG . JUDGEMENT	0	0.14	0.55265	0.	0.55265	TONs	FIRE 6.25, higher than CERP
Ammonia	NH3	emissions:ENG . JUDGEMENT			0	0	0.	TONs	No Data on emissions in AP-42 or FIRE 6.25
CO - Carbon Monoxide	CO	factor:ENG . JUDGEMENT	0	5.99	23.6455	0.	23.6455	TONs	Ashland Furan/Iron No-Bake Test NBF3 and NBF4 Test Plan #RE 100118 DW
Total of Chargable Pollutants							8.27002	TONs	

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.&nbsp; 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
Benzene	71432	factor:ENG . JUDGEMENT	0	0.0818	0.322906	0.	0.322906	TONs	No-bake furan CERP emission factor assuming 10% of emissions are emitted in pouring area

## Emission Unit Summary: F020

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Emissions Unit ID: F020

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		1.11621	0.	1.11621	TONs	
SO2 - Sulfur Dioxide	SO2	X	2.87392	0.	2.87392	TONs	
NOx - Nitrogen Oxides	NOX	X	0.02566	0.	0.02566	TONs	
Organic Compounds	OC	X	0.35924	0.	0.35924	TONs	
Pb - Lead	7439921	X	0	0	0.	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	2.11695	0.	2.11695	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		1.94759	0.	1.94759	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		1.1393	0.	1.1393	TONs	
VOC - Volatile Organic Compounds	VOC		0.35924	0.	0.35924	TONs	
Ammonia	NH3		0	0	0.	TONs	
CO - Carbon Monoxide	CO		15.3703	0.	15.3703	TONs	
Total of Chargable Pollutants					5.37577	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
Benzene	71432	0.209899	0.	0.209899	TONs

### - Processes

#### - Process & Emissions Detail

Name: Med. Pouring&Cooling

Source Classification Code (SCC): 3-04-003-20

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

Schedule Trade Secret:

Hours Per Day: 9

Days Per Week: 5

Weeks Per Year: 52

Hours Per Year: 2025

Winter (Dec - Feb)%: 23

Spring (March-May)%: 25

Summer (June-Aug)%: 23

Fall (Sept-Nov)%: 29

Material	Material Action	Throughput	X Units
Metal	Charged	5132	TONs

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Unit s	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	factor:ENG . JUDGEMENT	0	1.45	1.11621	0.	1.11621	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
SO2 - Sulfur Dioxide	SO2	X factor:ENG . JUDGEMENT	0	1.12	2.87392	0.	2.87392	TONs	Ashland Furan/Iron No-Bake NBF2 and NBF4 Test Plan #RE100123 EB
NOx - Nitrogen Oxides	NOX	X factor:ENG . JUDGEMENT	0	0.01	0.02566	0.	0.02566	TONs	FIRE 6.25
Organic Compounds	OC	X factor:ENG . JUDGEMENT	0	0.14	0.35924	0.	0.35924	TONs	FIRE 6.25, higher than CERP
Pb - Lead	7439921	X emissions:ENG . JUDGEMENT			0	0	0.	TONs	No data on emission in AP-42 or FIRE 6.25
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X factor:ENG . JUDGEMENT	0	2.75	2.11695	0.	2.11695	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
PM10 (Filt) - Primary PM10,	PM10-FIL	factor:ENG .	0	2.53	1.94759	0.	1.94759	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation

Filterable Portion Only		JUDGEMENT								
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	factor:ENG . JUDGEMENT	0	1.48	1.1393	0.	1.1393	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation	
VOC - Volatile Organic Compounds	VOC	factor:ENG . JUDGEMENT	0	0.14	0.35924	0.	0.35924	TONs	FIRE 6.25, higher than CERP	
Ammonia	NH3	emissions:ENG . JUDGEMENT			0	0	0.	TONs	No data on emission in AP-42 or FIRE 6.25	
CO - Carbon Monoxide	CO	factor:ENG . JUDGEMENT	0	5.99	15.3703	0.	15.3703	TONs	Ashland Furan/Iron No-Bake Test NBF3 and NBF4 Test Plan #RE 100118 DW	
Total of Chargable Pollutants							5.37577	TONs		

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.&nbsp; 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
Benzene	71432	factor:ENG . JUDGEMENT	0	0.0818	0.209899	0.	0.209899	TONs	No-bake furan CERP emission factor assuming 10% of emissions are emitted in pouring area

## Emission Unit Summary: F022

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Emissions Unit ID: F022

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		1.36258	0.	1.36258	TONs	
SO2 - Sulfur Dioxide	SO2	X	0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X	0	0	0.	TONs	
Organic Compounds	OC	X	0	0	0.	TONs	
Pb - Lead	7439921	X	2.84364E-05	0.	2.84364E-05	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	2.58692	0.	2.58692	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		1.55347	0.	1.55347	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.849142	0.	0.849142	TONs	
VOC - Volatile Organic Compounds	VOC		0	0	0.	TONs	
Ammonia	NH3		0	0	0.	TONs	
CO - Carbon Monoxide	CO		0	0	0.	TONs	
Total of Chargable Pollutants					2.58695	TONS	

### - Processes

#### - Process & Emissions Detail

Name: Charge Handling

Source Classification Code (SCC): 3-04-003-15

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

Schedule Trade Secret:

Hours Per Day: 9

Days Per Week: 5

Weeks Per Year: 52

Hours Per Year: 2025

Winter (Dec - Feb)%: 23

Spring (March-May)%: 25

Summer (June-Aug)%: 23

Fall (Sept-Nov)%: 29

Material	Material Action	Throughput	X Units
Metal	Produced	13165	TONs

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	factor:ENG . JUDGEMENT	0	0.207	1.36258	0.	1.36258	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
SO2 - Sulfur Dioxide	SO2	X emissions:ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42.
NOx - Nitrogen Oxides	NOX	X emissions:ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42.
Organic Compounds	OC	X emissions:ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42.
Pb - Lead	7439921	X factor:ENG . JUDGEMENT	0	4.32E-06	2.84364E-05	0.	2.84364E-05	TONs	AP-42 Chapter 12, Table 12.10-7.Assumed lead is 0.00072% of total PE based on baghouse sample.
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X factor:ENG . JUDGEMENT	0	0.393	2.58692	0.	2.58692	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	factor:ENG . JUDGEMENT	0	0.236	1.55347	0.	1.55347	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	factor:ENG . JUDGEMENT	0	0.129	0.849142	0.	0.849142	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
VOC - Volatile Organic Compounds	VOC	emissions:ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42.

Ammonia	NH3	emissions: ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42.
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42.
Total of Chargable Pollutants							2.58695	TONS	

# Emission Unit Summary: K001

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Emissions Unit ID: K001

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.	0.0053865	0.0053865	TONs	
SO2 - Sulfur Dioxide	SO2	X	0.	5.67E-04	5.67E-04	TONs	
NOx - Nitrogen Oxides	NOX	X	0.	0.0945	0.0945	TONs	
Organic Compounds	OC	X	0.	4.3384	4.3384	TONs	
Pb - Lead	7439921	X	0.	2.74725E-05	2.74725E-05	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.	0.194796	0.194796	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.	0.194796	0.194796	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.	0.194796	0.194796	TONs	
VOC - Volatile Organic Compounds	VOC		0.	4.3332	4.3332	TONs	
Ammonia	NH3		0.	0.	0.	TONs	
CO - Carbon Monoxide	CO		0.	0.07938	0.07938	TONs	
Total of Chargable Pollutants					4.62828	TONS	

## - Processes

### - Process & Emissions Detail

Name: Fab Paint Booth

Source Classification Code (SCC): 4-02-025-01

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

Schedule Trade Secret:

Hours Per Day: 10

Days Per Week: 5

Weeks Per Year: 52

Hours Per Year: 2570

Winter (Dec - Feb)%: 24

Spring (March-May)%: 28

Summer (June-Aug)%: 24

Fall (Sept-Nov)%: 24

Material	Material Action	Throughput	X Units
Solvent in Coating	Used	4.328	TONs

- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	No condensables expected from atomized spray guns
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	No emissions from this EU.
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	No emissions from this EU.
Organic Compounds	OC	X factor:ENG . JUDGEMENT	0	2,000	0.	4.328	4.328	TONs	Based on a database calculation of VOC Content from MSDS tabulations.
Pb - Lead	7439921	X emissions: ENG. JUDGEMENT			0	2.7E-5	2.7E-05	TONs	Based on a database calculation of Lead Content from MSDS tabulations.
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X emissions: ENG. JUDGEMENT			0	0.193	0.193	TONs	Calculated from total coatings times 60.63% solids times 81% transfer efficiency times (1 - 90% CE from filters)
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	emissions: ENG. JUDGEMENT			0	0.193	0.193	TONs	Calculated from total coatings times 60.63% solids times 81% transfer efficiency times (1 - 90% CE from filters)
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	emissions: ENG. JUDGEMENT			0	0.193	0.193	TONs	Calculated from total coatings times 60.63% solids times 81% transfer efficiency times (1 - 90% CE from filters)
VOC - Volatile Organic Compounds	VOC	factor:ENG . JUDGEMENT	0	2,000	0.	4.328	4.328	TONs	Based on a database calculation of VOC Content from MSDS tabulations.

Ammonia	NH3	emissions: ENG. JUDGEMENT			0	0	0.	TONs	No emissions from this EU.
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs	No emissions from this EU.
Total of Chargable Pollutants							4.52103	TONs	

- **Process & Emissions Detail**

Name: Fab Paint Booth\_Oven

Source Classification Code (SCC): 4-02-010-01

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

Schedule Trade Secret:

Hours Per Day: 10

Days Per Week: 5

Weeks Per Year: 52

Hours Per Year: 2570

Winter (Dec - Feb)%: 24

Spring (March-May)%: 28

Summer (June-Aug)%: 24

Fall (Sept-Nov)%: 24

Material	Material Action	Throughput	X Units
Natural Gas	Burned	1.89	MILLION 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 Condensibile Portion Only (All Less than 1 Micron)	PM-CON	factor:ENG JUDGEMENT	0	5.7	0.	0.0053865	0.0053865	TONs	EPA AP-42, Section 1.4 (7/98)
SO2 - Sulfur Dioxide	SO2	X factor:OEP A (auto calculate)	0	0.6	0.	5.67E-04	5.67E-04	TONs	EPA AP-42, Section 1.4 (7/98)

NOx - Nitrogen Oxides	NOX	X	factor:ENG . JUDGEMENT	0	100	0.	0.0945	0.0945	TONs	EPA AP-42, Section 1.4 (7/98)
Organic Compounds	OC	X	factor:ENG . JUDGEMENT	0	11	0.	0.010395	0.010395	TONs	EPA AP-42, Section 1.4 (7/98)
Pb - Lead	7439921	X	factor:ENG . JUDGEMENT	0	5E-04	0.	4.725E-07	4.725E-07	TONs	EPA AP-42, Section 1.4 (7/98)
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	factor:ENG . JUDGEMENT	0	1.9	0.	0.0017955	0.0017955	TONs	EPA AP-42, Section 1.4 (7/98)
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		factor:ENG . JUDGEMENT	0	1.9	0.	0.0017955	0.0017955	TONs	EPA AP-42, Section 1.4 (7/98)
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		factor:ENG . JUDGEMENT	0	1.9	0.	0.0017955	0.0017955	TONs	EPA AP-42, Section 1.4 (7/98)
VOC - Volatile Organic Compounds	VOC		factor:ENG . JUDGEMENT	0	5.5	0.	0.0051975	0.0051975	TONs	EPA AP-42, Section 1.4 (7/98)
Ammonia	NH3		factor:ENG . JUDGEMENT	0	0.	0.	0.	0.	TONs	None
CO - Carbon Monoxide	CO		factor:ENG . JUDGEMENT	0	84	0.	0.07938	0.07938	TONs	EPA AP-42, Section 1.4 (7/98)
Total of Chargable Pollutants								0.107258	TONs	



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

Schedule Trade Secret:

Hours Per Day: 16

Days Per Week: 5

Weeks Per Year: 52

Hours Per Year: 3584

Winter (Dec - Feb)%: 24

Spring (March-May)%: 24

Summer (June-Aug)%: 22

Fall (Sept-Nov)%: 30

Material	Material Action	Throughput	X Units
Sand	Handled	46988.4	TONs

- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	factor:ENG . JUDGEMENT	0	1.2429	0.289673	0.171702	0.461375	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
SO2 - Sulfur Dioxide	SO2	X emissions:ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
NOx - Nitrogen Oxides	NOX	X emissions:ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
Organic Compounds	OC	X factor:ENG . JUDGEMENT	0	0.00112	0.0108412	0.0154723	0.0263135	TONs	FIRE 6.25
Pb - Lead	7439921	X factor:ENG . JUDGEMENT	0	0.001796	3.68958E-04	1.73677E-04	5.42635E-04	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25. Assumed lead was 0.05% of total PE based on analysis of baghouse sample.
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X factor:ENG . JUDGEMENT	0	2.3571	0.484227	0.227937	0.712164	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
PM10 (Filt) - Primary PM10,	PM10-FIL	factor:ENG .	0	2.0035	0.411586	0.193743	0.605329	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation

Filterable Portion Only		JUDGEMENT								
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	factor:ENG . JUDGEMENT	0	0.463	0.107908	0.0639616	0.17187	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation	
VOC - Volatile Organic Compounds	VOC	factor:ENG . JUDGEMENT	0	0.00112	0.0108412	0.0154723	0.0263135	TONs	FIRE 6.25	
Ammonia	NH3	emissions:ENG . JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.	
CO - Carbon Monoxide	CO	emissions:ENG . JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.	
Total of Chargable Pollutants							0.73902	TONs		

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.&nbsp; 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
Benzene	71432	factor:ENG . JUDGEMENT	0	1.04E-07	1.00668E-06	1.43672E-06	2.4434E-06	TONs	CERP emission factor



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

Schedule Trade Secret:

Hours Per Day: 9

Days Per Week: 5

Weeks Per Year: 52

Hours Per Year: 2025

Winter (Dec - Feb)%: 23

Spring (March-May)%: 25

Summer (June-Aug)%: 23

Fall (Sept-Nov)%: 29

Material	Material Action	Throughput	X Units
Metal	Produced	5131.7	TONs

- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	factor:ENG . JUDGEMENT	0	1.184	0.0455695	0.0288607	0.0744302	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
SO2 - Sulfur Dioxide	SO2	X emissions:ENG . JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
NOx - Nitrogen Oxides	NOX	X emissions:ENG . JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
Organic Compounds	OC	X factor:ENG . JUDGEMENT	0	1.2	0.153951	2.92507	3.07902	TONs	FIRE 6.25
Pb - Lead	7439921	X factor:ENG . JUDGEMENT	0	0.0016	6.15804E-05	3.12007E-05	9.27811E-05	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25. Assumed lead was 0.05% of total PE based on analysis of baghouse sample.
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X factor:ENG . JUDGEMENT	0	2.016	0.0775913	0.0393129	0.116904	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
PM10 (Filt) - Primary PM10,	PM10-FIL	factor:ENG .	0	1.411	0.0543062	0.0275151	0.0818213	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation

Filterable Portion Only		JUDGEMENT							
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	factor:ENG . JUDGEMENT	0	0.532	0.0204755	0.0129678	0.0334433	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
VOC - Volatile Organic Compounds	VOC	factor:ENG . JUDGEMENT	0	1.2	0.153951	2.92507	3.07902	TONs	FIRE 6.25
Ammonia	NH3	emissions:ENG . JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
CO - Carbon Monoxide	CO	emissions:ENG . JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
Total of Chargable Pollutants							3.19602	TONs	

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

**Process Emissions**

Pollutant	Code	Method Used	Hours UnCont .	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Unit s	Explanation
Benzene	71432	factor:ENG . JUDGEMENT	0	0.7362	0.0944489	1.79453	1.88898	TONs	No-bake furan CERP emission factor assuming 90% of emissions are emitted in shakeout

## Emission Unit Summary: P032

Oct 7 2011, 13:08:57

Emissions Unit ID: P032

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		0.0701067	0.0444009	0.114508	TONs	
SO2 - Sulfur Dioxide	SO2	X	0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X	0	0	0.	TONs	
Organic Compounds	OC	X	0.236847	4.50009	4.73694	TONs	
Pb - Lead	7439921	X	9.45612E-05	4.7911E-05	1.42472E-04	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.119371	0.0604812	0.179852	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.0835478	0.0423309	0.125879	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.0315007	0.0199504	0.0514511	TONs	
VOC - Volatile Organic Compounds	VOC		0.236847	4.50009	4.73694	TONs	
Ammonia	NH3		0	0	0.	TONs	
CO - Carbon Monoxide	CO		0	0	0.	TONs	
Total of Chargable Pollutants					4.91693	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
Benzene	71432	0.145306	2.76081	2.90612	TONs

### - Processes

#### - Process & Emissions Detail

Name: Lg. Mold Shakeout

Source Classification Code (SCC): 3-04-003-31

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

Schedule Trade Secret:

Hours Per Day: 9

Days Per Week: 5

Weeks Per Year: 52

Hours Per Year: 2025

Winter (Dec - Feb)%: 23

Spring (March-May)%: 25

Summer (June-Aug)%: 23

Fall (Sept-Nov)%: 29

Material	Material Action	Throughput	X Units
Metal	Produced	7894.9	TONs

- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	factor:ENG . JUDGEMENT	0	1.184	0.0701067	0.0444009	0.114508	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
SO2 - Sulfur Dioxide	SO2	X emissions:ENG . JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
NOx - Nitrogen Oxides	NOX	X emissions:ENG . JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
Organic Compounds	OC	X factor:ENG . JUDGEMENT	0	1.2	0.236847	4.50009	4.73694	TONs	FIRE 6.25
Pb - Lead	7439921	X factor:ENG . JUDGEMENT	0	0.001597	9.45612E-05	4.7911E-05	1.42472E-04	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25. Assumed lead was 0.05% of total PE based on analysis of baghouse sample.
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X factor:ENG . JUDGEMENT	0	2.016	0.119371	0.0604812	0.179852	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
PM10 (Filt) - Primary PM10,	PM10-FIL	factor:ENG .	0	1.411	0.0835478	0.0423309	0.125879	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation

Filterable Portion Only		JUDGEMENT							
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	factor:ENG . JUDGEMENT	0	0.532	0.0315007	0.0199504	0.0514511	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
VOC - Volatile Organic Compounds	VOC	factor:ENG . JUDGEMENT	0	1.2	0.236847	4.50009	4.73694	TONs	FIRE 6.25
Ammonia	NH3	emissions:ENG . JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
CO - Carbon Monoxide	CO	emissions:ENG . JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
Total of Chargable Pollutants							4.91693	TONs	

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

**Process Emissions**

Pollutant	Code	Method Used	Hours UnCont .	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Unit s	Explanation
Benzene	71432	factor:ENG . JUDGEMENT	0	0.7362	0.145306	2.76081	2.90612	TONs	No-bake furan CERP emission factor assuming 90% of emissions are emitted in shakeout

# Emission Unit Summary: P038

Oct 7 2011, 13:08:57

Emissions Unit ID: P038

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		0.262827	0.28327	0.546097	TONs	
SO2 - Sulfur Dioxide	SO2	X	0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X	0	0	0.	TONs	
Organic Compounds	OC	X	0	0	0.	TONs	
Pb - Lead	7439921	X	3.79757E-04	2.7832E-04	6.58077E-04	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.498378	0.365256	0.863634	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.423738	0.310553	0.734291	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.0978995	0.105514	0.203414	TONs	
VOC - Volatile Organic Compounds	VOC		0	0	0.	TONs	
Ammonia	NH3		0	0	0.	TONs	
CO - Carbon Monoxide	CO		0	0	0.	TONs	
Total of Chargable Pollutants					0.864292	TONS	

## - Processes

### - Process & Emissions Detail

Name: Sand Reclamation

Source Classification Code (SCC): 3-04-003-50

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

Schedule Trade Secret:

Hours Per Day: 16

Days Per Week: 5

Weeks Per Year: 52

Hours Per Year: 3584

Winter (Dec - Feb)%: 24

Spring (March-May)%: 24

Summer (June-Aug)%: 22

Fall (Sept-Nov)%: 30

Material	Material Action	Throughput	X Units
Sand	Handled	46988	TONs

- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	factor:ENG . JUDGEMENT	0	1.243	0.262827	0.28327	0.546097	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
SO2 - Sulfur Dioxide	SO2	X emissions:ENG . JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
NOx - Nitrogen Oxides	NOX	X emissions:ENG . JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
Organic Compounds	OC	X emissions:ENG . JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
Pb - Lead	7439921	X factor:ENG . JUDGEMENT	0	0.001796	3.79757E-04	2.7832E-04	6.58077E-04	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25. Assumed lead was 0.05% of total PE based on analysis of baghouse sample.
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X factor:ENG . JUDGEMENT	0	2.357	0.498378	0.365256	0.863634	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	factor:ENG . JUDGEMENT	0	2.004	0.423738	0.310553	0.734291	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	factor:ENG . JUDGEMENT	0	0.463	0.0978995	0.105514	0.203414	TONs	AP-42 Chapter 12, Table 12.10-7 and FIRE 6.25, EPA's PM Calculator for Speciation
VOC - Volatile Organic Compounds	VOC	emissions:ENG . JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.

Ammonia	NH3	emissions: ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
Total of Chargable Pollutants							0.864292	TONS	

# Emission Unit Summary: Z034

Oct 7 2011, 13:08:57

Emissions Unit ID: Z034

Detailed Reporting

DAPC Description:

## - Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON		0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X	0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X	0	0	0.	TONs	
Organic Compounds	OC	X	1.2149	0.	1.2149	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		1.2149	0.	1.2149	TONs	
Ammonia	NH3		0	0	0.	TONs	
CO - Carbon Monoxide	CO		0	0	0.	TONs	
Total of Chargable Pollutants					1.2149	TONS	

## - Processes

### - Process & Emissions Detail

Name: M\_Mold Rel Agt

Source Classification Code (SCC): 3-04-003-30

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

Schedule Trade Secret:

Hours Per Day: 16

Days Per Week: 5

Weeks Per Year: 52

Hours Per Year: 3584

Winter (Dec - Feb)%: 24

Spring (March-May)%: 24

Summer (June-Aug)%: 22

Fall (Sept-Nov)%: 30

Material	Material Action	Throughput	X Units
Material	Processed	21147	TONs

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
Organic Compounds	OC	X factor: MATERIAL BALANCE	0	0.1149	1.2149	0.	1.2149	TONs	Material balance based on usage of mold release compound.
Pb - Lead	7439921	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	emissions: ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	emissions: ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
VOC - Volatile Organic Compounds	VOC	factor: ENG. JUDGEMENT	0	0.1149	1.2149	0.	1.2149	TONs	Material balance based on usage of mold release compound.

Ammonia	NH3	emissions: ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs	No data on emissions in AP-42 or FIRE 6.25.
Total of Chargable Pollutants							1.2149	TONS	

# Emission Unit Summary: Z035

Oct 7 2011, 13:08:57

Emissions Unit ID: Z035

Detailed Reporting

DAPC Description:

## - Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON		0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X	0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X	0	0	0.	TONs	
Organic Compounds	OC	X	1.28757	0.	1.28757	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		1.28757	0.	1.28757	TONs	
Ammonia	NH3		0	0	0.	TONs	
CO - Carbon Monoxide	CO		0	0	0.	TONs	
Total of Chargable Pollutants					1.28757	TONS	

## - Processes

### - Process & Emissions Detail

Name: L\_Mold Rel Agnt

Source Classification Code (SCC): 3-04-003-30

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

Schedule Trade Secret:

Hours Per Day: 16

Days Per Week: 5

Weeks Per Year: 52

Hours Per Year: 3584

Winter (Dec - Feb)%: 24

Spring (March-May)%: 24

Summer (June-Aug)%: 22

Fall (Sept-Nov)%: 30

Material	Material Action	Throughput	X Units
Material	Processed	22412	TONs

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X factor: MATERIAL BALANCE	0	0.1149	1.28757	0.	1.28757	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	factor: MATERIAL BALANCE	0	0.1149	1.28757	0.	1.28757	TONs	

Ammonia	NH3	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants							1.28757	TONs	