

TV FER/EIS/ES Emissions Report (201624) for 2010
The C.W. Zumbiel Company - Harris Ave
1431370384
April 08, 2011

2010 Emissions Summary Report : 201624

Oct 11 2011, 10:13:05

- Report Data

Report Category: TV

Submitted Date: 04/08/2011

Reporting Year: 2010

Approved Date 04/13/2011

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.	0.026	0.026	TONs
SO2 - Sulfur Dioxide	SO2	X	0.	0.002	0.002	TONs
NOx - Nitrogen Oxides	NOX	X	0.	0.34	0.34	TONs
Organic Compounds	OC	X	32.67	11.2172	43.8872	TONs
Pb - Lead	7439921	X	0.	1.7E-06	1.7E-06	TONs
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.	0.026	0.026	TONs
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.	0.026	0.026	TONs
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.	0.026	0.026	TONs
VOC - Volatile Organic Compounds	VOC		32.65	11.069	43.719	TONs
Ammonia	NH3		0.	2.7117	2.7117	TONs
CO - Carbon Monoxide	CO		0.	0.28	0.28	TONs
Total of Chargable Pollutants					44.2552	TONS

- Attachments

Description	Type	Public Document	Trade Secret Document	Trade secret Justification

- Notes

User Name	Date	Note

Emission Units Without Detailed Emissions

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Emission Unit	Why Excluded	Company Equipment ID
B001	Exemption Status = Permit Exempt	Boilers 1, 2, 3
K001	Did Not Operate	Press No. 50
Z004	Less Than Reporting Requirement	Offset Press No. 21
Z008	Exemption Status = Permit Exempt	Offset Press No. 19
Z010	Exemption Status = Permit Exempt	Parts Washer
Z011	Exemption Status = De minimis	Laser Cutter
Z012	Exemption Status = De minimis	Transparent Box Machines
Z013	Exemption Status = De minimis	Balers / Cyclones
Z014	Exemption Status = Permit Exempt	Solvent Storage Tank

Report Pollutant Summary: Total Emissions (Tons)

Unit	SCC Id	PM-CON	SO2	NOX	OC	7439921	PM-FIL	PM10-FIL	PM25-FIL	VOC	NH3	CO
K002	4-02-010-01	0.026	0.002	0.34	0.0372	1.7E-06	0.026	0.026	0.026	0.019	0.0017	0.28
K002	4-05-005-11	0.	0.	0.	6.19	0.	0.	0.	0.	6.17	0.	0.
R001	4-05-004-01	0.	0.	0.	0.07	0.	0.	0.	0.	0.07	0.	0.
R001	4-05-004-17	0.	0.	0.	4.02	0.	0.	0.	0.	4.02	0.	0.
R001	4-02-013-01	0.	0.	0.	0.61	0.	0.	0.	0.	0.61	0.55	0.
R001	4-05-004-15	0.	0.	0.	1.75	0.	0.	0.	0.	1.75	0.	0.
R002	4-05-004-01	0.	0.	0.	0.16	0.	0.	0.	0.	0.16	0.	0.
R002	4-05-004-17	0.	0.	0.	7.37	0.	0.	0.	0.	7.37	0.	0.
R002	4-02-013-01	0.	0.	0.	1.22	0.	0.	0.	0.	1.22	1.16	0.
R002	4-05-004-15	0.	0.	0.	2.65	0.	0.	0.	0.	2.65	0.	0.
R003	4-05-004-01	0.	0.	0.	0.13	0.	0.	0.	0.	0.13	0.	0.
R003	4-05-004-17	0.	0.	0.	7.86	0.	0.	0.	0.	7.86	0.	0.
R003	4-02-013-01	0.	0.	0.	1.05	0.	0.	0.	0.	1.05	1	0.
R003	4-05-004-15	0.	0.	0.	3.47	0.	0.	0.	0.	3.47	0.	0.
X001	4-05-005-14	0.	0.	0.	7.3	0.	0.	0.	0.	7.17	0.	0.
Total		0.026	0.002	0.34	43.8872	1.7E-06	0.026	0.026	0.026	43.719	2.7117	0.28

Emission Unit Summary: K002

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Emissions Unit ID: K002

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.	0.026	0.026	TONs	
SO2 - Sulfur Dioxide	SO2	X	0.	0.002	0.002	TONs	
NOx - Nitrogen Oxides	NOX	X	0.	0.34	0.34	TONs	
Organic Compounds	OC	X	5.19	1.0372	6.2272	TONs	
Pb - Lead	7439921	X	0.	1.7E-06	1.7E-06	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.	0.026	0.026	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.	0.026	0.026	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.	0.026	0.026	TONs	
VOC - Volatile Organic Compounds	VOC		5.17	1.019	6.189	TONs	
Ammonia	NH3		0.	0.0017	0.0017	TONs	
CO - Carbon Monoxide	CO		0.	0.28	0.28	TONs	
Total of Chargable Pollutants					6.5952	TONS	

- Processes

- Process & Emissions Detail

Name: K002-3

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

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 8

Days Per Week: 5

Weeks Per Year: 50

Hours Per Year: 781

Winter (Dec - Feb)%: 30

Spring (March-May)%: 22

Summer (June-Aug)%: 33

Fall (Sept-Nov)%: 15

Material	Material Action	Throughput	X Units
Natural Gas	Burned	6.76	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 Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	.026	0.026	TONs	Calculated using Method AP-42 Table 1.4-2 (7/98) averaging actual fuel usage amongst machine centers.
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	.002	0.002	TONs	Calculated using Method AP-42 Table 1.4-2 (7/98) averaging actual fuel usage amongst machine centers.
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	.34	0.34	TONs	Calculated using Method AP-42 Table 1.4-2 (7/98) averaging actual fuel usage amongst machine centers.
Organic Compounds	OC	X emissions: ENG. JUDGEMENT			0	.0372	0.0372	TONs	Calculated using Method AP-42 Table 1.4-2 (7/98) averaging actual fuel usage amongst machine centers.
Pb - Lead	7439921	X emissions: ENG. JUDGEMENT			0	.0000017	1.7E-06	TONs	Calculated using Method AP-42 Table 1.4-2 (7/98) averaging actual fuel usage amongst machine centers.
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X emissions: ENG. JUDGEMENT			0	.026	0.026	TONs	Calculated using Method AP-42 Table 1.4-2 (7/98) averaging actual fuel usage amongst machine centers.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	emissions: ENG. JUDGEMENT			0	.026	0.026	TONs	Calculated using Method AP-42 Table 1.4-2 (7/98) averaging actual fuel usage amongst machine centers.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	emissions: ENG. JUDGEMENT			0	.026	0.026	TONs	Calculated using Method AP-42 Table 1.4-2 (7/98) averaging actual fuel usage amongst machine centers.
VOC - Volatile Organic Compounds	VOC	emissions: ENG. JUDGEMENT			0	.019	0.019	TONs	Calculated using Method AP-42 Table 1.4-2 (7/98) averaging actual fuel usage amongst machine centers.

Ammonia	NH3	emissions: ENG. JUDGEMENT			0	.0017	0.0017	TONs	Calculated using NAPAP factor from "Development and Selection of Ammonia Emission Factors", prepared for U.S. EPA, 8/94 averaging actual fuel usage amongst machine centers.
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	.28	0.28	TONs	Calculated using Method AP-42 Table 1.4-2 (7/98) averaging actual fuel usage amongst machine centers.
Total of Chargable Pollutants							0.405202	TONs	

- **Process & Emissions Detail**

Name: K002-4

Source Classification Code (SCC): 4-05-005-11

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

Schedule Trade Secret:

Hours Per Day: 8

Days Per Week: 5

Weeks Per Year: 50

Hours Per Year: 781

Winter (Dec - Feb)%: 30

Spring (March-May)%: 22

Summer (June-Aug)%: 33

Fall (Sept-Nov)%: 15

Material	Material Action	Throughput	X Units
Solvent in Ink	Used	6.18	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.			0	0	0.	TONs	

			JUDGEMENT							
NOx - Nitrogen Oxides	NOX	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X	emissions: MAT. BALANCE			5.19	1.00	6.19	TONs	Based on ink usage recording software and stack test data of 85.4% capture efficiency and 96.7% destruction efficiency along with company production information.
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: MAT. BALANCE			5.17	1.00	6.17	TONs	Based on ink usage recording software and stack test data of 85.4% capture efficiency and 96.7% destruction efficiency along with company production information.
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants								6.19	TONS	

Emission Unit Summary: R001

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Emissions Unit ID: R001

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	5.84	0.61	6.45	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		5.84	0.61	6.45	TONs	
Ammonia	NH3		0.	0.55	0.55	TONs	
CO - Carbon Monoxide	CO		0.	0.	0.	TONs	
Total of Chargable Pollutants					6.45	TONS	

- Processes

- Process & Emissions Detail

Name: R001 Inks

Source Classification Code (SCC): 4-05-004-01

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 5

Weeks Per Year: 50

Hours Per Year: 1631

Winter (Dec - Feb)%: 28

Spring (March-May)%: 25

Summer (June-Aug)%: 27

Fall (Sept-Nov)%: 20

Material	Material Action	Throughput	X Units
Ink	Used	6.91	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	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: MAT. BALANCE			.07	0	0.07	TONs	Emissions estimated using usage information from suppliers and MSDS's and company production information with the assumption that 5% is lost to the air per previous guidance for lithographic offset printing.
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: MAT. BALANCE			.07	0	0.07	TONs	Emissions estimated using usage information from suppliers and MSDS's and company production information with the assumption that 5% is lost to the air per previous guidance

										for lithographic offset printing.
Ammonia	NH3	emissions: ENG. JUDGEMENT			0	0	0.	TONs		
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs		
Total of Chargable Pollutants							0.07	TONs		

- **Process & Emissions Detail**

Name: R001 Clean-up

Source Classification Code (SCC): 4-05-004-17

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

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 5

Weeks Per Year: 50

Hours Per Year: 1631

Winter (Dec - Feb)%: 26

Spring (March-May)%: 29

Summer (June-Aug)%: 26

Fall (Sept-Nov)%: 19

Material	Material Action	Throughput	X Units
Solvent	Used	4.02	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.			0	0	0.	TONs	

			JUDGEMENT							
NOx - Nitrogen Oxides	NOX	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X	emissions: MAT. BALANCE			4.02	0	4.02	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
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: MAT. BALANCE			4.02	0	4.02	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants								4.02	TONs	

- **Process & Emissions Detail**

Name: R001 Coating

Source Classification Code (SCC): 4-02-013-01

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

Schedule Trade Secret:

Hours Per Day: 24
 Days Per Week: 5
 Weeks Per Year: 50
 Hours Per Year: 1631

Winter (Dec - Feb)%: 26
 Spring (March-May)%: 29
 Summer (June-Aug)%: 26
 Fall (Sept-Nov)%: 19

Material	Material Action	Throughput	X Units
Solvent in Coating	Used	.61	TONs

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X emissions: MAT. BALANCE			0	.61	0.61	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
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	PM10-FIL	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Portion Only									
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
VOC - Volatile Organic Compounds	VOC	emissions: MAT. BALANCE			0	.61	0.61	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
Ammonia	NH3	emissions: MAT. BALANCE			0	.55	0.55	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants							0.61	TONS	

- **Process & Emissions Detail**

Name: R001 Dampening

Source Classification Code (SCC): 4-05-004-15

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

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 5

Weeks Per Year: 50

Hours Per Year: 1631

Winter (Dec - Feb)%: 26

Spring (March-May)%: 29

Summer (June-Aug)%: 26

Fall (Sept-Nov)%: 19

Material	Material Action	Throughput	X Units
Alcohol	Used	1.75	TONs

- **Process Emissions**

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

PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X	emissions: MAT. BALANCE			1.75	0	1.75	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
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: MAT. BALANCE			1.75	0	1.75	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants								1.75	TONS	

Emission Unit Summary: R002

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Emissions Unit ID: R002

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	10.18	1.22	11.4	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		10.18	1.22	11.4	TONs	
Ammonia	NH3		0.	1.16	1.16	TONs	
CO - Carbon Monoxide	CO		0.	0.	0.	TONs	
Total of Chargable Pollutants					11.4	TONS	

- Processes

- Process & Emissions Detail

Name: R002 Ink

Source Classification Code (SCC): 4-05-004-01

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 5

Weeks Per Year: 50

Hours Per Year: 2808

Winter (Dec - Feb)%: 29

Spring (March-May)%: 26

Summer (June-Aug)%: 27

Fall (Sept-Nov)%: 18

Material	Material Action	Throughput	X Units
Ink	Used	14.85	TONs

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X emissions: MAT. BALANCE			0.16	0	0.16	TONs	Emissions estimated using usage information from suppliers and MSDS's and company production information with the assumption that 5% is lost to the air per previous guidance for lithographic offset printing.
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: MAT. BALANCE			0.16	0	0.16	TONs	Emissions estimated using usage information from suppliers and MSDS's and company production information with the assumption that 5% is lost to the air per previous guidance

										for lithographic offset printing.
Ammonia	NH3	emissions: ENG. JUDGEMENT			0	0	0.	TONs		
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs		
Total of Chargable Pollutants							0.16	TONs		

- **Process & Emissions Detail**

Name: R002 Clean-up

Source Classification Code (SCC): 4-05-004-17

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

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 5

Weeks Per Year: 50

Hours Per Year: 2808

Winter (Dec - Feb)%: 29

Spring (March-May)%: 26

Summer (June-Aug)%: 27

Fall (Sept-Nov)%: 18

Material	Material Action	Throughput	X Units
Solvent	Used	7.37	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.			0	0	0.	TONs	

			JUDGEMENT							
NOx - Nitrogen Oxides	NOX	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X	emissions: MAT. BALANCE			7.37	0	7.37	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
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: MAT. BALANCE			7.37	0	7.37	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants								7.37	TONs	

- **Process & Emissions Detail**

Name: R002 Coating

Source Classification Code (SCC): 4-02-013-01

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

Schedule Trade Secret:

Hours Per Day: 24
 Days Per Week: 5
 Weeks Per Year: 50
 Hours Per Year: 2808

Winter (Dec - Feb)%: 29
 Spring (March-May)%: 26
 Summer (June-Aug)%: 27
 Fall (Sept-Nov)%: 18

Material	Material Action	Throughput	X Units
Solvent in Coating	Used	1.22	TONs

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X emissions: MAT. BALANCE			0	1.22	1.22	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
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	PM10-FIL	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Portion Only									
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
VOC - Volatile Organic Compounds	VOC	emissions: MAT. BALANCE			0	1.22	1.22	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
Ammonia	NH3	emissions: MAT. BALANCE			0	1.16	1.16	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants							1.22	TONS	

- **Process & Emissions Detail**

Name: R002 Dampening

Source Classification Code (SCC): 4-05-004-15

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

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 5

Weeks Per Year: 50

Hours Per Year: 2808

Winter (Dec - Feb)%: 29

Spring (March-May)%: 26

Summer (June-Aug)%: 27

Fall (Sept-Nov)%: 18

Material	Material Action	Throughput	X Units
Alcohol	Used	2.65	TONs

- **Process Emissions**

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

PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X	emissions: MAT. BALANCE			2.65	0	2.65	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
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: MAT. BALANCE			2.65	0	2.65	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants								2.65	TONS	

Emission Unit Summary: R003

Oct 11 2011, 10:13:05

Emissions Unit ID: R003

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	11.46	1.05	12.51	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		11.46	1.05	12.51	TONs	
Ammonia	NH3		0.	1	1	TONs	
CO - Carbon Monoxide	CO		0.	0.	0.	TONs	
Total of Chargable Pollutants					12.51	TONS	

- Processes

- Process & Emissions Detail

Name: R003 Ink

Source Classification Code (SCC): 4-05-004-01

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 5

Weeks Per Year: 50

Hours Per Year: 2485

Winter (Dec - Feb)%: 28

Spring (March-May)%: 25

Summer (June-Aug)%: 31

Fall (Sept-Nov)%: 16

Material	Material Action	Throughput	X Units
Ink	Used	12.78	TONs

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X emissions: MAT. BALANCE			.13	0	0.13	TONs	Emissions estimated using usage information from suppliers and MSDS's and company production information with the assumption that 5% is lost to the air per previous guidance for lithographic offset printing.
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: MAT. BALANCE			.13	0	0.13	TONs	Emissions estimated using usage information from suppliers and MSDS's and company production information with the assumption that 5% is lost to the air per previous guidance

										for lithographic offset printing.
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		

- **Process & Emissions Detail**

Name: R003 Clean-up

Source Classification Code (SCC): 4-05-004-17

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

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 5

Weeks Per Year: 50

Hours Per Year: 2485

Winter (Dec - Feb)%: 28

Spring (March-May)%: 25

Summer (June-Aug)%: 31

Fall (Sept-Nov)%: 16

Material	Material Action	Throughput	X Units
Solvent	Used	7.86	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.			0	0	0.	TONs	

			JUDGEMENT							
NOx - Nitrogen Oxides	NOX	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X	emissions: MAT. BALANCE			7.86	0	7.86	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
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: MAT. BALANCE			7.86	0	7.86	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants								7.86	TONs	

- **Process & Emissions Detail**

Name: R003 Coating

Source Classification Code (SCC): 4-02-013-01

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

Schedule Trade Secret:

Hours Per Day: 24
 Days Per Week: 5
 Weeks Per Year: 50
 Hours Per Year: 2485

Winter (Dec - Feb)%: 28
 Spring (March-May)%: 25
 Summer (June-Aug)%: 31
 Fall (Sept-Nov)%: 16

Material	Material Action	Throughput	X Units
Solvent in Coating	Used	1.05	TONs

- **Process Emissions**

Pollutant	Code	\$ Method Used	Hours UnCont	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X emissions: MAT. BALANCE			0	1.05	1.05	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
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	PM10-FIL	emissions: ENG. JUDGEMENT			0	0	0.	TONs	

Portion Only									
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
VOC - Volatile Organic Compounds	VOC	emissions: MAT. BALANCE			0	1.05	1.05	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
Ammonia	NH3	emissions: MAT. BALANCE			0	1.00	1	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants							1.05	TONS	

- **Process & Emissions Detail**

Name: R003 Dampening

Source Classification Code (SCC): 4-05-004-15

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

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 5

Weeks Per Year: 50

Hours Per Year: 2485

Winter (Dec - Feb)%: 28

Spring (March-May)%: 25

Summer (June-Aug)%: 31

Fall (Sept-Nov)%: 16

Material	Material Action	Throughput	X Units
Alcohol	Used	3.47	TONs

- **Process Emissions**

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

PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Organic Compounds	OC	X	emissions: MAT. BALANCE			3.47	0	3.47	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
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: MAT. BALANCE			3.47	0	3.47	TONs	Emissions estimated using usage information from suppliers and MSDS's along with company production information.
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants								3.47	TONS	

Emission Unit Summary: X001

Oct 11 2011, 10:13:05

Emissions Unit ID: X001

Detailed Reporting

DAPC Description:

- Unit Emissions

Pollutant	Code	\$	Fugitive Amount	Stack Amount	Total	Units	QA+
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON		0	0	0.	TONs	
SO2 - Sulfur Dioxide	SO2	X	0	0	0.	TONs	
NOx - Nitrogen Oxides	NOX	X	0	0	0.	TONs	
Organic Compounds	OC	X	0	7.30	7.3	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	7.17	7.17	TONs	
Ammonia	NH3		0	0	0.	TONs	
CO - Carbon Monoxide	CO		0	0	0.	TONs	
Total of Chargable Pollutants					7.3	TONS	

- Processes

- Process & Emissions Detail

Name: X001-10

Source Classification Code (SCC): 4-05-005-14

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 8

Days Per Week: 5

Weeks Per Year: 50

Hours Per Year: 781

Winter (Dec - Feb)%: 30

Spring (March-May)%: 22

Summer (June-Aug)%: 33

Fall (Sept-Nov)%: 15

Material	Material Action	Throughput	X Units
Solvent	Consumed	7.30	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	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	7.30	7.3	TONs	Based on operator experience and conservative engineering judgement it has been determined that 35% of wash up solvent is emitted to atmosphere with additional being sent off site as recycled hazardous waste.
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	7.17	7.17	TONs	Based on operator experience and conservative engineering it has been determined that 35% of wash-up solvent is emitted to atmosphere with additional sent off site as recycled

									hazardous waste.
Ammonia	NH3	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants							7.3	TONS	