

SMTV FER/EIS Emissions Report (200532) for 2010
Rumpke of Ohio, Inc.
1431371235
February 15, 2011

2010 Emissions Summary Report : 200532

Oct 7 2011, 11:18:27

- Report Data

Report Category: SMTV

Submitted Date: 02/15/2011

Reporting Year: 2010

Approved Date 03/14/2011

Reporting State Approved

- Reports Included

FER: X

ES:

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.	0.01	0.01	TONs
SO2 - Sulfur Dioxide	SO2	X	0.	0.00124	0.00124	TONs
NOx - Nitrogen Oxides	NOX	X	0.	0.21	0.21	TONs
Organic Compounds	OC	X	0.	2.12	2.12	TONs
Pb - Lead	7439921	X	0.	1.03E-06	1.03E-06	TONs
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.	0.01102	0.01102	TONs
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.	0.00723	0.00723	TONs
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.	0.00594	0.00594	TONs
VOC - Volatile Organic Compounds	VOC		0.	1.28	1.28	TONs
Ammonia	NH3		0.	0.01	0.01	TONs
CO - Carbon Monoxide	CO		0.	0.17	0.17	TONs
Total of Chargable Pollutants					2.34226	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 NO. 1,2,3 & 4
K001	Less Than Reporting Requirement	Paint Booth #1

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	4-02-025-01	0.	0.	0.	1.3	0.	0.00711	0.00332	0.00203	1.26	0.	0.
K002	4-02-010-01	0.01	0.00124	0.21	0.02	1.03E-06	0.00391	0.00391	0.00391	0.01	0.01	0.17
K002	4-02-025-05	0.	0.	0.	0.8	0.	0.	0.	0.	0.01	0.	0.
Total		0.01	0.00124	0.21	2.12	1.03E-06	0.01102	0.00723	0.00594	1.28	0.01	0.17

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.	0.01	0.01	TONs	
SO2 - Sulfur Dioxide	SO2	X	0.	0.00124	0.00124	TONs	
NOx - Nitrogen Oxides	NOX	X	0.	0.21	0.21	TONs	
Organic Compounds	OC	X	0.	2.12	2.12	TONs	
Pb - Lead	7439921	X	0.	1.03E-06	1.03E-06	TONs	
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	0.	0.01102	0.01102	TONs	
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		0.	0.00723	0.00723	TONs	
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		0.	0.00594	0.00594	TONs	
VOC - Volatile Organic Compounds	VOC		0.	1.28	1.28	TONs	
Ammonia	NH3		0.	0.01	0.01	TONs	
CO - Carbon Monoxide	CO		0.	0.17	0.17	TONs	
Total of Chargable Pollutants					2.34226	TONS	

- Processes

- Process & Emissions Detail

Name: K002-1

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

- Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 8

Days Per Week: 3

Weeks Per Year: 51

Hours Per Year: 1192

Winter (Dec - Feb)%: 24

Spring (March-May)%: 28

Summer (June-Aug)%: 22

Fall (Sept-Nov)%: 26

Material	Material Action	Throughput	X Units
Solvent in Coating	Used	1.30	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: MAT. BALANCE			0	1.30	1.3	TONs	Note: Mass balance methodology was used in order to determine the pollutant emissions. Coating usage from daily log sheets and OC contents from Material Safety Data Sheets (MSDS) and Air Quality Data Sheets provided by coating manufacturers.
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	7.11E-03	0.00711	TONs	Note: Coating usage from daily log sheets and solids content from Material Safety Data Sheets (MSDS) and Air Quality Data Sheets provided by coating manufacturers. Airless gun minimum transfer efficiency of 60% and filter control efficiency of 99.4% are provided by supplier.
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL	emissions: ENG. JUDGEMENT			0	3.32E-03	0.00332	TONs	Note: Coating usage from daily log sheets and solids content from Material Safety Data Sheets (MSDS) and Air Quality Data Sheets provided by coating manufacturers. Airless gun minimum transfer efficiency of 60% and filter control efficiency of 99.4% are provided by supplier. PM-10 emissions estimated based on PM-10/PM ratio of 0.467 per AP-42 Appendix B.1-12 (10/86 with reformat 1/95).
PM2.5 (FILT) - Primary PM2.5,	PM25-FIL	emissions: ENG.			0	2.03E-03	0.00203	TONs	Note: Coating usage from daily log sheets and solids content from Material Safety Data Sheets (MSDS) and Air Quality Data

Filterable Portion Only		JUDGEMENT							Sheets provided by coating manufacturers. Airless gun minimum transfer efficiency of 60% and filter control efficiency of 99.4% are provided by supplier. PM-2.5 emissions estimated based on PM-2.5/PM ratio of 0.286 per AP-42 Appendix B.1-12 (10/86 with reformat 1/95).
VOC - Volatile Organic Compounds	VOC	emissions: MAT. BALANCE			0	1.26	1.26	TONs	Note: Mass balance methodology was used in order to determine the pollutant emissions. Coating usage from daily log sheets and VOC contents from Material Safety Data Sheets (MSDS) and Air Quality Data Sheets provided by coating manufacturers.
Ammonia	NH3	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
CO - Carbon Monoxide	CO	emissions: ENG. JUDGEMENT			0	0	0.	TONs	
Total of Chargable Pollutants							1.30711	TONs	

- **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: 3

Weeks Per Year: 51

Hours Per Year: 1192

Winter (Dec - Feb)%: 24

Spring (March-May)%: 28

Summer (June-Aug)%: 22

Fall (Sept-Nov)%: 26

Material	Material Action	Throughput	X Units
Natural Gas	Burned	4.12	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	X	emissions: ENG. JUDGEMENT			0	0.01	0.01	TONs	Emissions based upon USEPA AP-42 Table 1.4-2 (7/98) emission factors for condensable PM (5.7 lb/mmcf natural gas combusted).
SO2 - Sulfur Dioxide	SO2	X	emissions: ENG. JUDGEMENT			0	1.24E-03	0.00124	TONs	Emissions based on AP-42 (5th edition, Supplement D 7/98) emission factor of 0.6 lb/mmcf for natural gas-fired equipment.
NOx - Nitrogen Oxides	NOX	X	emissions: ENG. JUDGEMENT			0	0.21	0.21	TONs	Emissions based on AP-42 (5th edition, Supplement D 7/98) emission factor of 100 lb/mmcf for natural gas-fired equipment with maximum heat input capacity < 100 mm BTU/hr.
Organic Compounds	OC	X	emissions: ENG. JUDGEMENT			0	0.02	0.02	TONs	Emissions based on AP-42 (5th edition, Supplement D 7/98) emission factor of 11.0 lb/mmcf for natural gas-fired equipment.
Pb - Lead	7439921	X	emissions: ENG. JUDGEMENT			0	1.03E-06	1.03E-06	TONs	Lead emissions based upon USEPA AP-42 Table 1.4-2 (7/98) emission factor of 0.0005 lb/mmcf natural gas combusted.
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL	X	emissions: ENG. JUDGEMENT			0	0.00391	0.00391	TONs	Emissions based upon USEPA AP-42 Table 1.4-2 (7/98) emission factor for filterable PM (1.9 lb/mmcf natural gas combusted).
PM10 (Filt) - Primary PM10, Filterable Portion Only	PM10-FIL		emissions: ENG. JUDGEMENT			0	0.00391	0.00391	TONs	Emissions based upon USEPA AP-42 Table 1.4-2 (7/98) emission factor for filterable PM (1.9 lb/mmcf natural gas combusted). Per AP-42, all filterable particulate matter is considered filterable PM10.
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	PM25-FIL		emissions: ENG. JUDGEMENT			0	0.00391	0.00391	TONs	Per AP-42 Table 1.4-2 (7/98), all filterable TSP emissions from natural gas combustion are < 1 micron. Thus, filterable PM2.5 emissions are identical to filterable PM10 and filterable TSP emissions.
VOC - Volatile Organic Compounds	VOC		emissions: ENG. JUDGEMENT			0	0.01	0.01	TONs	Emissions based on AP-42 (5th edition, Supplement D 7/98) emission factor of 5.5 lb/mmcf for natural gas-fired equipment.
Ammonia	NH3		emissions: ENG. JUDGEMENT			0	0.01	0.01	TONs	Ammonia emission factor of 3.2 lb/million cubic feet of natural gas combusted taken directly from USEPA FIRE emission factor database, Version 6.25.
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT			0	0.17	0.17	TONs	Emissions based on AP-42 (5th edition, Supplement D 7/98) emission factor of 84.0 lb/mmcf for natural gas-fired equipment with maximum heat input capacity < 100 mm BTU/hr.
Total of Chargable Pollutants								0.235151	TONs	

- **Process & Emissions Detail**

Name: K002-2

Source Classification Code (SCC): 4-02-025-05

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

Schedule Trade Secret:

Hours Per Day: 8

Days Per Week: 3

Weeks Per Year: 51

Hours Per Year: 1192

Winter (Dec - Feb)%: 24

Spring (March-May)%: 28

Summer (June-Aug)%: 22

Fall (Sept-Nov)%: 26

Material	Material Action	Throughput	X Units
Solvent in Coating	Used	.80	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	0.80	0.8	TONs	Note: This SCC represents the cleanup solvents used on this emissions unit. Mass balance methodology was used in order to determine the pollutant emissions. Cleanup solvents used were acetone and W.M. Barr Klean-Strip Naked Gun Spray Gun Paint Remover ESG-14.
Pb - Lead	7439921	X emissions:			0	0	0.	TONs	

		X	ENG. JUDGEMENT							
PE (Filt) - Primary PM, Filterable Portion Only	PM-FIL		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	0.01	0.01	TONs	Note: This SCC represents the cleanup solvents used on this emissions unit. Mass balance methodology was used in order to determine the pollutant emissions. Cleanup solvents used were acetone and W.M. Barr Klean-Strip Naked Gun Spray Gun Paint Remover ESG-14. Pursuant to 40 CFR 51.100(s), Acetone is an exempt VOC and, therefore, there are no VOC emissions associated with the Acetone usage.	
Ammonia	NH3		emissions: ENG. JUDGEMENT		0	0	0.	TONs		
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT		0	0	0.	TONs		
Total of Chargable Pollutants							0.8	TONS		