

SMTV FER/EIS Emissions Report (201727) for 2010
BP PRODUCTS NORTH AMERICA INC CINCINNATI
1431070118
April 15, 2011

Ethyl Benzene	100414	3.2	27.55	30.75	LBs
Hexane, N-	110543	41.3	56.67	97.97	LBs
Methyl Tert-Butyl Ether (MTBE)	1634044	0.	0.	0.	LBs
Toluene	108883	49.1	268.26	317.36	LBs
Trimethylpentane, 2,2,4- (Isooctane)	540841	50.4	28.38	78.78	LBs
Xylenes (Isomers and Mixture)	1330207	49.1	28.35	77.45	LBs

- **Attachments**

Description	Type	Public Document	Trade Secret Document	Trade secret Justification
Supporting Calculations for Emissions	Annual Summary of Emissions	X	X	N/A
2010 TANKS 4.0.9d Report	Calculations	X	X	N/A

- **Notes**

User Name	Date	Note
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Emission Units Without Detailed Emissions

Oct 11 2011, 10:18:47

Emission Unit	Why Excluded	Company Equipment ID
F001	Less Than Reporting Requirement	ROADWAY - PARKING LOT
G001	Less Than Reporting Requirement	Tank #04
J002	Less Than Reporting Requirement	Loading Rack
T001	Less Than Reporting Requirement	Tank #3
T002	Less Than Reporting Requirement	Tank #12
T003	Less Than Reporting Requirement	Tank #14
T004	Less Than Reporting Requirement	Tank #23
T005	Less Than Reporting Requirement	Tank #2
T007	Less Than Reporting Requirement	Tank #4
T008	Did Not Operate	Tank #6
T009	Did Not Operate	Tank #7
T011	Less Than Reporting Requirement	Tank #22
T012	Did Not Operate	Tank #20

T013	Did Not Operate	Tank #21
T014	Less Than Reporting Requirement	Tank #10
T016	Less Than Reporting Requirement	Tank #24
T017	Did Not Operate	TANK #19
T018	Less Than Reporting Requirement	Tank #11
T019	Less Than Reporting Requirement	Tank #01
T022	Less Than Reporting Requirement	Tank #15
T023	Less Than Reporting Requirement	Tank #17
X002	Less Than Reporting Requirement	Equipment Fugitives
Z001	Less Than Reporting Requirement	Tank #335
Z002	Less Than Reporting Requirement	Tank #840
Z003	Did Not Operate	Tank #005

Report Pollutant Summary: Total Emissions (Tons)

Unit	SCC Id	PM-CON	SO2	NOX	OC	7439921	PM-FIL	PM10-FIL	PM25-FIL	VOC	NH3	CO
T006	4-04-001-61	0.	0.	0.	2.93	0.	0.	0.	0.	2.93	0.	0.
T010	4-04-001-07	0.	0.	0.	1.61	0.	0.	0.	0.	1.61	0.	0.
X001	4-04-001-54	0.	0.	0.	4.37	0.	0.	0.	0.	4.37	0.	0.
Total		0.	0.	0.	8.91	0.	0.	0.	0.	8.91	0.	0.

Emission Unit Summary: T006

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Emissions Unit ID: T006

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	2.93	2.93	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	2.93	2.93	TONs	
Ammonia	NH3		0	0	0.	TONs	
CO - Carbon Monoxide	CO		0	0	0.	TONs	
Total of Chargable Pollutants					2.93	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	25.23	25.23	LBs
Cumene	98828	0	0.56	0.56	LBs
Ethyl Benzene	100414	0	1.74	1.74	LBs
Hexane, N-	110543	0	23.23	23.23	LBs
Methyl Tert-Butyl Ether (MTBE)	1634044	0	0	0.	LBs
Toluene	108883	0	27.10	27.1	LBs

Trimethylpentane, 2,2,4- (Isooctane)	540841	0	28.38	28.38	LBS
Xylenes (Isomers and Mixture)	1330207	0	10.40	10.4	LBS

- **Processes**

- **Process & Emissions Detail**

Name: T006

Source Classification Code (SCC): 4-04-001-61

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

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 7

Weeks Per Year: 48

Hours Per Year: 8016

Winter (Dec - Feb)%: 17

Spring (March-May)%: 28

Summer (June-Aug)%: 26

Fall (Sept-Nov)%: 29

Material	Material Action	Throughput	X Units
Gasoline	Storage Capacity	8985.638	1000 GALLON-YEARS

- **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: ENG.			0	2.93	2.93	TONs	Calculated using US EPA TANKS software

			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	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	2.93	2.93	TONs	Calculated using US EPA TANKS software
Ammonia	NH3		emissions: ENG. JUDGEMENT		0	0	0.	TONs	
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT		0	0	0.	TONs	
Total of Chargable Pollutants							2.93	TONS	

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Process Emissions

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Benzene	71432	emissions: ENG. JUDGEMENT			0	25.23	25.23	LBs	Please see attached supporting calculations.

Cumene	98828	emissions: ENG. JUDGEMENT			0	0.56	0.56	Lbs	Please see attached supporting calculations.
Ethyl Benzene	100414	emissions: ENG. JUDGEMENT			0	1.74	1.74	Lbs	Please see attached supporting calculations.
Hexane, N-	110543	emissions: ENG. JUDGEMENT			0	23.23	23.23	Lbs	Please see attached supporting calculations.
Methyl Tert- Butyl Ether (MTBE)	1634044	emissions: ENG. JUDGEMENT			0	0	0.	Lbs	Please see attached supporting calculations.
Toluene	108883	emissions: ENG. JUDGEMENT			0	27.10	27.1	Lbs	Please see attached supporting calculations.
Trimethylpentane, 2,2,4- (Isooctane)	540841	emissions: ENG. JUDGEMENT			0	28.38	28.38	Lbs	Please see attached supporting calculations.
Xylenes (Isomers and Mixture)	1330207	emissions: ENG. JUDGEMENT			0	10.40	10.4	Lbs	Please see attached supporting calculations.

Trimethylpentane, 2,2,4- (Isooctane)	540841	0	0	0.	LBS
Xylenes (Isomers and Mixture)	1330207	0	17.95	17.95	LBS

- **Processes**

- **Process & Emissions Detail**

Name: T010

Source Classification Code (SCC): 4-04-001-07

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

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 7

Weeks Per Year: 52

Hours Per Year: 8760

Winter (Dec - Feb)%: 15

Spring (March-May)%: 15

Summer (June-Aug)%: 56

Fall (Sept-Nov)%: 14

Material	Material Action	Throughput	X Units
Gasoline	Throughput	583.807	1000 GALLONS

- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	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.			0	1.61	1.61	TONs	Calculated using US EPA TANKS software

			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	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	1.61	1.61	TONs	Calculated using US EPA TANKS software
Ammonia	NH3		emissions: ENG. JUDGEMENT		0	0	0.	TONs	
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT		0	0	0.	TONs	
Total of Chargable Pollutants							1.61	TONS	

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Process Emissions

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Benzene	71432	emissions: ENG. JUDGEMENT			0	45.37	45.37	LBs	Please see attached supporting calculations.

Cumene	98828	emissions: ENG. JUDGEMENT			0	85.90	85.9	Lbs	Please see attached supporting calculations.
Ethyl Benzene	100414	emissions: ENG. JUDGEMENT			0	25.81	25.81	Lbs	Please see attached supporting calculations.
Hexane, N-	110543	emissions: ENG. JUDGEMENT			0	33.44	33.44	Lbs	Please see attached supporting calculations.
Methyl Tert- Butyl Ether (MTBE)	1634044	emissions: ENG. JUDGEMENT			0	0	0.	Lbs	Please see attached supporting calculations.
Toluene	108883	emissions: ENG. JUDGEMENT			0	241.16	241.16	Lbs	Please see attached supporting calculations.
Trimethylpentane, 2,2,4- (Isooctane)	540841	emissions: ENG. JUDGEMENT			0	0	0.	Lbs	Please see attached supporting calculations.
Xylenes (Isomers and Mixture)	1330207	emissions: ENG. JUDGEMENT			0	17.95	17.95	Lbs	Please see attached supporting calculations.

Trimethylpentane, 2,2,4- (Isooctane)	540841	50.4	0	50.4	LBS
Xylenes (Isomers and Mixture)	1330207	49.1	0	49.1	LBS

- **Processes**

- **Process & Emissions Detail**

Name: X001

Source Classification Code (SCC): 4-04-001-54

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

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 7

Weeks Per Year: 52

Hours Per Year: 8760

Winter (Dec - Feb)%: 24

Spring (March-May)%: 25

Summer (June-Aug)%: 23

Fall (Sept-Nov)%: 28

Material	Material Action	Throughput	X Units
Petroleum Liquid	Transferred	155174.167	1000 GALLONS

- **Process Emissions**

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
PE (Cond) - Primary PM Condensable Portion Only (All Less than 1 Micron)	PM-CON	emissions: ENG. JUDGEMENT			0	0	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.			4.37	0	4.37	TONs	Using emission factors taken from EPA Document EPA/R-95-017 November 1995

			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	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		4.37	0	4.37	TONs	Using emission factors taken from EPA Document EPA/R-95-017 November 1995
Ammonia	NH3		emissions: ENG. JUDGEMENT		0	0	0.	TONs	
CO - Carbon Monoxide	CO		emissions: ENG. JUDGEMENT		0	0	0.	TONs	
Total of Chargable Pollutants							4.37	TONS	

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Process Emissions

Pollutant	Code	Method Used	Hours UnCont.	UnCont. Factor (LBS/X)	Fugitive Amount	Stack Amount	Total	Units	Explanation
Benzene	71432	emissions: ENG. JUDGEMENT			44.9	0	44.9	LBs	Please see attached supporting calculations.

Cumene	98828	emissions: ENG. JUDGEMENT			1.0	0	1	LBS	Please see attached supporting calculations.
Ethyl Benzene	100414	emissions: ENG. JUDGEMENT			3.2	0	3.2	LBS	Please see attached supporting calculations.
Hexane, N-	110543	emissions: ENG. JUDGEMENT			41.3	0	41.3	LBS	Please see attached supporting calculations.
Methyl Tert- Butyl Ether (MTBE)	1634044	emissions: ENG. JUDGEMENT			0	0	0.	LBS	Please see attached supporting calculations.
Toluene	108883	emissions: ENG. JUDGEMENT			49.1	0	49.1	LBS	Please see attached supporting calculations.
Trimethylpentane, 2,2,4- (Isooctane)	540841	emissions: ENG. JUDGEMENT			50.4	0	50.4	LBS	Please see attached supporting calculations.
Xylenes (Isomers and Mixture)	1330207	emissions: ENG. JUDGEMENT			49.1	0	49.1	LBS	Please see attached supporting calculations.