Marathon Petroleum Company LLC

1300 South Fort Street
Detroit, MI 48217
Telephone 313/843-9100

FEDERAL EXPRESS

October 23, 2010

Ms. Teresa Seidel
MDNRE – Air Quality Division
Cadillac Place
3058 West Grand Boulevard
Suite 2-300
Detroit, MI 48202

RE: Third Quarter 2010 Leak Detection and Repair, Wastewater VOC, and Benzene Waste NESHAP Certification and Compliance Report

Dear Ms. Seidel:

This report is being submitted by the Michigan Refining Division of Marathon Petroleum Company LP (MPC) to fulfill the requirements of:

- The fugitive and wastewater VOC emissions monitoring program for the third quarter of 2010. This report is required by Michigan Air Rule 622, U.S. EPA's New Source Performance Standards (NSPS), and the National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries. In addition, this report contains information required by Paragraph 20Oiic of the First Modification to the November 2005 First Revised Consent Decree (CD), United States of America et. al. v. Marathon Petroleum Company LP (MPC) (Civil Action No. 4:01CV-40119-PVG), lodged February 7, 2008 and entered on March 31, 2008.
- The Benzene Waste NESHAPS Subpart FF Certification and Compliance report for the third quarter of 2010. This report is required by 40 CFR 61 Subpart FF and Paragraph 18.P.ii.b of the Consent Decree.
- As required by 40 CFR 60.7(a), Marathon Petroleum Company LP (MPC) Michigan Refining Division (MRD) is submitting notification for a physical or operational change being made to the refinery that will increase emission rates. MRD has installed the MSAT unit as part of the Naphtha Hydrotreater system and has added new equipment in the Vacuum Unit. The equipment installations were reviewed by MDNRE under permit to install number 63-08B. The construction of the MSAT equipment commenced on September 1, 2010 and new equipment in the Vacuum Unit commenced on October 17, 2010. The MSAT equipment and new equipment in the Vacuum Unit will be operational in November 2010. Listed components in the Naphtha Hydrotreater/MSAT unit along with the Vacuum Unit will be regulated under NSPS Part 60 Subpart GGGa in November 2010.

The attached tables include information necessary for compliance with these requirements.

Table 1 lists MPC process units (NSPS VV Section 60.487 (c)(1)) and summarizes the process unit shutdowns that occurred during this quarter (NSPS VV Section 60.487 (c)(3)). Table 1 also includes the approximate number of components present in each unit at the beginning and ending of the reporting period (NSPS VV Section 60.487(c)(4)).

Table 2 lists the components found leaking and an exceedance summary for various pieces of control equipment or treatment processes during this quarter and the dates of repair (NSPS VV Section 60.487(c)(2) and 40 CFR 61.357(d)(7)).

Table 3 lists leaking components on delay of repair (NSPS VV Section 60.487(c)(2)). This information is also required by Paragraph 20.O.ii.c.2.f of the CD.

Table 4 includes information satisfying NSPS Subpart QQQ (Section 60.698(c)) requirements.

This table summarizes drain and junction box inspections that identified seals with low water level or other problems that could result in VOC emissions. In addition, subsequent corrective actions and/or repairs are identified. All required inspections for the QQQ standards have been completed as required.

Table 5 presents measures that MPC took to satisfy Paragraphs 20.O.ii.c.1 and 18.P.ii.b of the CD.

On June 22, 2010, the Detroit Refinery began using ESC Labs of Nashville, TN to run all EOL sampling results. MPC performed a laboratory audit of the facility in July 2009.

Table 6 lists specific monitoring information as required per Paragraph 20.O.ii.c.2.a–e of the CD.

Table 7 contains the certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61.357(d)(6).

Table 8 contains the exceedance summary for various pieces of control equipment or treatment processes as required in 40 CFR 61.357(d)(7).

Table 9 contains the End of Line calculation as required per Paragraph 18.K.iii and 18.P.ii.b of the CD. The refinery received written approval of the End of Line Sampling Plan on March 8, 2010.

Please contact Ms. Kristen Schnipke (313) 297-4750 or Mr. Greg Shay (313) 297-6115 if you have any questions concerning this submittal.

Sincerely,

Marathon Petroleum Company LP

By: MPC Investment LLC, General Partner

Mr. C.T. Case, Deputy Assistant Secretary

Attachments

cc: (2) U.S. EPA, Director of Regulatory Enforcement c/o Matrix Environmental and Geotechnical – *Federal Express*
(2) Air and Radiation Division, U.S. EPA Region 5 –*Federal Express*
(2) Office of Regional Counsel, U.S. EPA Region 5 – *Federal Express*

MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT
AIR QUALITY DIVISION

RENEWABLE OPERATING PERMIT REPORT CERTIFICATION

Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.

Reports submitted pursuant to R 336.1213 (Rule 213), subrules (3)(c) and/or (4)(c), of Michigan's Renewable Operating Permit (ROP) program must be certified by a responsible official. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as specified in Rule 213(3)(b)(ii), and be made available to the Department of Natural Resources and Environment, Air Quality Division upon request.

Source Name Marathon Petroleum Company LP County Wayne

Source Address 1300 South Fort Street City Detroit

AQD Source ID (SRN) A9831 ROP No. 199700013c ROP Section No. 01

Please check the appropriate box(es):

☐ **Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, this source was in compliance with **ALL** terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.

☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, **EXCEPT** for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, **ALL** monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.

☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, **EXCEPT** for the deviations identified on the enclosed deviation report(s).

☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 07/01/2010 To 09/31/2010

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

Third quarter 2010 Leak Detection and Repair, Wastewater VOC, and Benzene Waste NESHAP Certification and Compliance Report

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

C.T. Case	Deputy Assistant Secretary	(313)843-9100
Name of Responsible Official (print or type)	Title	Phone Number

Signature of Responsible Official

Date

* Photocopy this form as needed.

EQP 5736 (Rev 2-10)

Table 1
Component Summary - Third Quarter 2010
Michigan Refining Division

Complex	Unit	Description	Approximate Number of Components						Dates of Shutdown
			Pumps		Valves		Compressors		
			6/30/2010	9/30/2010	6/30/2010	9/30/2010	6/30/2010	9/30/2010	
1	4	Vacuum Unit	5	5	369	370	2	3	
	5	Crude Unit	22	25	1,922	1,924	0	0	
	29	Wastewater Plant	9	11	541	467	0	0	
2	7	Distillate Hydrotreater Unit	16	16	1,232	1,248	3	3	
	8	Gas Oil Hydrotreater Unit	5	5	1,482	1,505	2	2	
	9	Alkylation Unit	27	27	1,934	1,920	1	1	
3	11	Fluid Catalytic Cracking Unit	7	7	492	507	0	0	
	13	Propylene Unit	8	8	666	665	3	3	
	12 21	Gas Con/SATS Depropanizer/Treaters	29	29	1,853	1,869	2	2	
4	14	Continuous Catalytic Reformer Unit	13	13	2,014	2,003	2	2	
	16	Naphtha Hydrotreater Unit	17	17	1,000	1,078	0	0	
	19	Kerosene Hydrotreater Unit	10	9	652	675	2	2	4/8/2010- 8/28/10 9/21/10-Present
5	1	Crude Tank Farm	20	20	668	668	0	0	
	2	LPG Tank Farm	16	16	1,337	1,377	0	0	
	3/4	CP/Melvindale Tank Farms	22	20	1,330	1,317	0	0	
		Light Products Terminal	5	8	684	639	0	0	

Table 2
Leakers Detected During Third Quarter 2010
Michigan Refining Division

Month	Complex	Unit	VOC Tag I.D.	Component Type	Date Leak Detected	Date of Repair*

SEE ATTACHED TABLE

*R/D = Repair Delay S/D = Shutdown Required

MARATHON - DETROIT
1300 SOUTH FORT STREET
DETROIT, MI 48217

10/19/2010

LEAKING EQUIPMENT LOG

Reporting Period 08/01/2010 - 08/31/2010

Process Unit : 01

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
14601	VALVE/ GATE	10.00	TK 53 10" INLINE VLV ON SUCTION LINE NEAR PLATFORM								
				08/07/2010	M21	15800 PPM	VLV-PKG	08/07/2010	VLV-TP	9799.00	
				08/07/2010	M21	9799 PPM		08/07/2010	VLV-TP	126.00	
					M21			08/09/2010	VLV-TP	126.00	
				08/09/2010	M21	126 PPM					08/09/2010

Process Unit 01 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	1	1
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

MARATHON - DETROIT
1300 SOUTH FORT STREET
DETROIT, MI 48217

10/19/2010

LEAKING EQUIPMENT LOG

Reporting Period 09/01/2010 - 09/30/2010

Process Unit : 02

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
~~12284~~	VALVE/ ORBIT	3.00	SOUTH BOTTOM OF T95 C=3 LPG	*** Placed on Delay for Turnaround on 12/29/2009							
				12/15/2009	M21	13400 PPM	VLV-PKG	12/15/2009	VLV-TIG	17500.00	
				12/15/2009	M21	17500 PPM		12/22/2009	VLV-INJ	1200.00	
				12/22/2009	M21	1200 PPM		12/23/2009	VLV-INJ	1200.00	
				12/23/2009	M21	1200 PPM		01/14/2010	VLV-RV	4.00	
				01/14/2010	M21	4 PPM					
				02/02/2010	M21	23 PPM					
				03/10/2010	M21	8.02 PPM					
				04/05/2010	M21	7.04 PPM					
				05/23/2010	M21	6.54 PPM					
				06/10/2010	M21	7.9 PPM					
				07/30/2010	M21	9.19 PPM					
				08/23/2010	M21	1.35 PPM					
				09/07/2010	M21	184 PPM					
				10/11/2010	M21	17.1 PPM					
12435	VALVE	1.50	TK 99 TOP FLOAT CHAMBER								
				09/07/2010	M21	11200 PPM	VLV-PKG	09/07/2010	VLV-TP	8756.00	
				09/07/2010	M21	8756 PPM		09/08/2010	VLV-TP	320.00	
				09/08/2010	M21	320 PPM					09/08/2010
12440.1	CONNECTOR/ SCREWED	1.00	TK 190 TOP BYPASS FLARE								
				09/30/2010	VIS	F	CON-UNION	09/30/2010	CON-TU	18000.00	
				09/30/2010	M21	18000 PPM					
				09/30/2010	M21	13900 PPM		10/01/2010	CON-TIG	0.00	
				10/01/2010	VIS	P					
				10/01/2010	M21	58 PPM					10/01/2010

LEAKING EQUIPMENT LOG

Reporting Period 09/01/2010 - 09/30/2010

Process Unit : 02

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
12486	VALVE	0.75	BTM/TOP BALLCHK TK 91								
				09/07/2010	M21	3005 PPM	VLV-PKG	09/07/2010	VLV-TP	26500.00	
				09/07/2010	M21	26500 PPM		09/07/2010	VLV-TFITT	35900.00	
				09/07/2010	M21	35900 PPM		09/07/2010	VLV-TFITT	38.00	
					M21			09/10/2010	VLV-TP	38.00	
				09/10/2010	M21	38 PPM					09/10/2010
12674	VALVE	0.38	BUTANE TO W.H. SAMPLE TAP AT RELIEF VALVE								
				09/03/2010	M21	32200 PPM	VLV-TUB	09/03/2010	VLV-TFITT	5826.00	
				09/03/2010	M21	5826 PPM		09/08/2010	VLV-TFITT	60.00	
				09/08/2010	M21	60 PPM					09/08/2010
14448	VALVE/ ORBIT	2.00	TK 190 TOP BLK VLV TO BOTH FLOAT CHAMBERS-02								
				09/02/2010	M21	61400 PPM	VLV-BON	09/02/2010	VLV-CL	15300.00	
				09/02/2010	M21	15300 PPM		09/08/2010	VLV-TBON	106.00	
				09/08/2010	M21	106 PPM					09/08/2010
19806	VALVE	2.00	99 TOP C=3 LPG								
				09/02/2010	M21	11700 PPM	VLV-PKG	09/02/2010	VLV-TP	14200.00	
				09/02/2010	M21	14200 PPM		09/08/2010	VLV-TP	165.00	
				09/08/2010	M21	165 PPM					09/08/2010
26204	PUMP/ CENTRIF	0.00	22P86 - LPG SLOP-02								
				09/01/2010	VIS	F	PMP-SEAL	09/01/2010	PMP-WOW	5688.00	
				09/01/2010	M21	5688 PPM		09/01/2010	PMP-WOW	16800.00	
				09/01/2010	M21	16800 PPM		09/02/2010	PMP-WS	1240.00	

LEAKING EQUIPMENT LOG

Reporting Period 09/01/2010 - 09/30/2010

Process Unit : 02

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
									E		
				09/02/2010	M21	1240 PPM					
				09/08/2010	VIS	P		09/13/2010	PMP-RPS	0.00	
				09/13/2010	VIS	P					
				09/13/2010	M21	99 PPM					09/13/2010
30572	VALVE/ BALL	3.00	S END LOADING RAILCAR TOP W SDE								
				09/02/2010	M21	46700 PPM	VLV-SCR	09/02/2010	VLV-WOW	23200.00	
				09/02/2010	M21	23200 PPM		09/02/2010	VLV-TFITT	8.00	
					M21			09/10/2010	VLV-TFITT	8.00	
				09/10/2010	M21	8 PPM					09/10/2010
30722	VALVE	6.00	BLEND BOOSTER TANK 87 FILL								
				09/02/2010	M21	9243 PPM	VLV-PKG	09/02/2010	VLV-TP	13500.00	
				09/02/2010	M21	13500 PPM		09/08/2010	VLV-TP	410.00	
				09/08/2010	M21	410 PPM					09/08/2010
5-00024	PUMP/ CENTRIF	0.00	22P89 (TK 87) N-C4 TO WOODHAVEN-02	*** Placed on Delay for Turnaround on 04/19/2010							
				04/05/2010	VIS	F	PMP-PHS	04/05/2010	PMP-WOW	4002.00	
				04/05/2010	M21	4002 PPM		04/05/2010	PMP-URM	10400.00	
				04/05/2010	M21	10400 PPM					
				04/13/2010	VIS	P		04/15/2010	PMP-TBO	6000.00	
				04/15/2010	M21	6000 PPM					
				04/16/2010	M21	6000 PPM					
				04/18/2010	VIS	P					04/15/2010
5-01461	VALVE/ GATE	0.50	RAIL CAR A1 TOP LPG-02-02-02								
				09/02/2010	M21	15400 PPM	VLV-SCR	09/02/2010	VLV-TFIT	11700.00	

LEAKING EQUIPMENT LOG

Reporting Period 09/01/2010 - 09/30/2010

Process Unit : 02

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
5-01461	VALVE/ GATE	0.50	RAIL CAR A1 TOP LPG-02-02-02								
									T		
				09/02/2010	M21	11700 PPM		09/02/2010	VLV-TFIT T	27000.00	
					M21			09/14/2010	VLV-RV	27000.00	
				09/14/2010	M21	27000 PPM		09/15/2010	VLV-RV	10.00	
				09/15/2010	M21	10 PPM					09/15/2010
5-01584	VALVE/ GATE	0.75	22-P-35 SLOP PMP LPG .75 BLK VLV DISCH.								
				09/02/2010	M21	11200 PPM	VLV-PKG	09/02/2010	VLV-TP	34.83	
				09/02/2010	M21	34.83 PPM					09/02/2010
5-01764	VALVE/ BALL	0.75	NORTH BTM T 99 C=3 LPG-02-02-02-02								
				09/02/2010	M21	14200 PPM	VLV-PKG	09/02/2010	VLV-TP	30.22	
				09/02/2010	M21	30.22 PPM					09/02/2010
5-01783.5	CONNECTOR/ SCREWED	0.75	BTM NORTH 190 COND LPG								
				09/27/2010	VIS	F	CON-CON NEC				
				09/27/2010	M21	18600 PPM		09/28/2010	CON-TIG	0.00	
				09/28/2010	VIS	P					
				09/28/2010	M21	21 PPM		09/29/2010	CON-TPL G	8300.00	
				09/29/2010	M21	8300 PPM		09/30/2010	CON-TC ON	9.00	
				09/30/2010	M21	9 PPM					09/30/2010
5-01784	VALVE/ GATE	0.75	BTM NORTH 190 COND LPG								
				09/02/2010	M21	86600 PPM	VLV-PKG	09/02/2010	VLV-TP	18900.00	
				09/02/2010	M21	18900 PPM		09/08/2010	VLV-TP	63.00	
				09/08/2010	M21	63 PPM					09/08/2010
5-01834	VALVE/ ORBIT	3.00	99 TOP C=3 LPG-02	*** Placed on Delay for Turnaround on 09/02/2009							
				08/17/2009	M21	5012 PPM	VLV-FLG	08/17/2009	VLV-TFL G	5605.00	

LEAKING EQUIPMENT LOG

Reporting Period 09/01/2010 - 09/30/2010

Process Unit : 02

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				08/17/2009	M21	5605 PPM					
				09/01/2009	M21	12600 PPM		09/01/2009	VLV-TFL G	9189.00	
				09/01/2009	M21	9189 PPM		09/01/2009	VLV-INJ	12600.00	
				09/01/2009	M21	12600 PPM		09/01/2009	VLV-INJ	1700.00	
				09/01/2009	M21	1700 PPM		09/01/2009	VLV-INJ	900.00	
				09/01/2009	M21	900 PPM					
				10/26/2009	M21	8 PPM					
				11/02/2009	M21	3000 PPM		11/02/2009	VLV-TFL G	3096.00	
				11/02/2009	M21	3096 PPM					
				12/21/2009	M21	7 PPM					
				01/25/2010	M21	2 PPM					
				02/02/2010	M21	6 PPM					
				03/08/2010	M21	13.69 PPM		04/05/2010	VLV-TFL G	1523.00	
				04/05/2010	M21	1523 PPM		04/05/2010	VLV-TFL G	1591.00	
				04/05/2010	M21	1591 PPM					
				05/23/2010	M21	439 PPM					04/05/2010
5-01846	VALVE/ GATE	4.00	TOP 190 COND LPG								
				09/02/2010	M21	174400 PPM	VLV-PKG	09/02/2010	VLV-TP	174400.00	
				09/02/2010	M21	174400 PPM		09/08/2010	VLV-TP	56.00	
				09/08/2010	M21	56 PPM					09/08/2010
5-01896	VALVE/ GATE	1.00	TK 92 BLK VLV AT FLARE LINE ON FLOAT CHAMBER BYPASS								
				09/07/2010	M21	36500 PPM	VLV-PLUG	09/07/2010	VLV-TPL G	9869.00	

LEAKING EQUIPMENT LOG

Reporting Period 09/01/2010 - 09/30/2010

Process Unit : 02

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				09/07/2010	M21	9869 PPM		09/09/2010	VLV-TPL G	56.00	
				09/09/2010	M21	56 PPM					09/09/2010
5-01919	VALVE/ GATE	2.00	TOP OF 90 OLEFIN - LPG								
				09/07/2010	M21	65500 PPM	VLV-PKG	09/07/2010	VLV-TP	2500.00	
				09/07/2010	M21	2500 PPM		09/09/2010	VLV-TP	56.00	
				09/09/2010	M21	56 PPM					09/09/2010

Process Unit 02 Summary

	Component Count	Leak Count
Total in Group	20	20
Total Valves	16	16
Total Pumps	2	2
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	2	2
Total Agitators	0	0
Total Other Equipment	0	0

MARATHON - DETROIT
1300 SOUTH FORT STREET
DETROIT, MI 48217

10/19/2010

LEAKING EQUIPMENT LOG

Reporting Period 09/01/2010 - 09/30/2010

Process Unit : 04

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
1-00253	PUMP/ RECIPRO	0.00	4P44 FLARE PUMP-04								
				09/01/2010	VIS	F	PMP-SEAL				
				09/01/2010	M21	581 PPM		09/02/2010	PMP-WS E	0.00	
				09/02/2010	VIS	P					
				09/02/2010	M21	308 PPM					09/02/2010

Process Unit 04 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	0	0
Total Pumps	1	1
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 09/01/2010 - 09/30/2010

Process Unit : 05

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
019	JCTBOX/ JB-SEAL	0.00	6FT. W. OF 4E38A (SEALED)								
				09/19/2010	VIS	F	JB SEAL	09/19/2010	JB-WO	15500.00	
				09/19/2010	M21	15500 PPM		09/23/2010	JB	0.00	
				09/23/2010	VIS	P					
				09/23/2010	M21	2 PPM					09/23/2010
1-00644	VALVE	0.75	E OF CNTRL RM 5E43 EXCH OVHD REC CNTRL LP N SDE								
				09/09/2010	M21	2696 PPM	VLV-PLUG	09/09/2010	VLV-TPL G	22700.00	
				09/09/2010	M21	22700 PPM		09/09/2010	VLV-TPL G	320.00	
					M21			09/10/2010	VLV-TPL G	320.00	
				09/10/2010	M21	320 PPM					09/10/2010

Process Unit 05 Summary

	Component Count	Leak Count
Total in Group	2	2
Total Valves	1	1
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	1	1

LEAKING EQUIPMENT LOG

Reporting Period 09/01/2010 - 09/30/2010

Process Unit : 07

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
28964	VALVE	0.50	INSIDE CMP BLDG 7C1 ON PLTFRM E SDE								
				09/14/2010	M21	339 PPM	VLV-PKG	09/14/2010	VLV-TP	850.00	
				09/14/2010	M21	850 PPM		09/14/2010	VLV-TP	10000.00	
				09/14/2010	M21	10000 PPM		09/20/2010	VLV-TP	429.00	
				09/20/2010	M21	429 PPM					09/20/2010

Process Unit 07 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	1	1
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 08/01/2010 - 08/31/2010

Process Unit : 08

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
20872	VALVE/ NEEDLE	0.50	L3/9 8-V-002 REACTOR N.W. SIDE								
				08/05/2010	M21	8184 PPM	VLV-PLUG	08/05/2010	VLV-TPL G	12200.00	
				08/05/2010	M21	12200 PPM		08/05/2010	VLV-TPL G	2.00	
					M21			08/06/2010	VLV-TPL G	2.00	
				08/06/2010	M21	2 PPM					08/06/2010
23023	VALVE/ GATE	0.75	G/9 4' E. OF 8-V-012								
				08/04/2010	M21	8509 PPM	VLV-SCR	08/04/2010	VLV-TFIT T	12200.00	
				08/04/2010	M21	12200 PPM		08/04/2010	VLV-TFIT T	171.00	
					M21			08/05/2010	VLV-TFIT T	171.00	
				08/05/2010	M21	171 PPM					08/05/2010

Process Unit 08 Summary

	Component Count	Leak Count
Total in Group	2	2
Total Valves	2	2
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

MARATHON - DETROIT
1300 SOUTH FORT STREET
DETROIT, MI 48217

10/19/2010

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2010 - 07/31/2010

Process Unit : 09

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
~~09C1~~	COMPRESSOR/ CENTRIFUGE	0.00	9C1 ALKY COMPRESSOR	~~*** Placed on Delay for Turnaround on 11/23/2009~~							
				11/12/2009	M21	11300 PPM	COM-CSE AL	11/17/2009	CMP-WO	15000.00	
				11/17/2009	M21	15000 PPM					
				12/29/2009	M21	4964 PPM					
				01/14/2010	M21	11245 PPM		01/14/2010	VLV-SEJ	9911.00	
				01/14/2010	M21	9911 PPM					
				02/03/2010	M21	10253 PPM		02/03/2010	VLV-SEJ	9856.00	
				02/03/2010	M21	9856 PPM					
				03/23/2010	M21	1563 PPM					
				04/30/2010	M21	155 PPM					
				05/23/2010	M21	331 PPM		06/30/2010	CMP-WO	1601.00	
				06/30/2010	M21	1601 PPM					06/30/2010
10530	VALVE	0.00	CNTLP 5FT E OF 9V40								
				07/08/2010	M21	14400 PPM	VLV-PLUG	07/08/2010	VLV-TPL G	197800.00	
				07/08/2010	M21	197800 PPM		07/08/2010	VLV-TPL G	64.63	
				07/08/2010	M21	64.63 PPM					07/08/2010
10531	VALVE/ CTRL	0.00	CNTLP 5FT E OF 9V40 #LCD0592								
				07/08/2010	M21	41300 PPM	VLV-SCR	07/08/2010	VLV-TFIT T	16500.00	
				07/08/2010	M21	16500 PPM		07/08/2010	VLV-TFIT T	69.00	
					M21			07/16/2010	VLV-TFIT T	69.00	
				07/16/2010	M21	69 PPM					07/16/2010

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2010 - 07/31/2010

Process Unit : 09

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
14392	PUMP	0.00	6/0 9P1B								
				06/01/2010	VIS	F	PMP-SEAL				
				06/01/2010	M21	25400 PPM					
				06/05/2010	VIS	F					
				06/05/2010	M21	11936 PPM		06/05/2010	PMP-ST M	0.00	
				06/14/2010	VIS	P					
				06/22/2010	VIS	P					
				06/28/2010	VIS	P					
				07/06/2010	VIS	P					
				07/12/2010	VIS	P					
				07/19/2010	VIS	P					
				07/29/2010	VIS	P					
				07/29/2010	M21	196 PPM					07/29/2010
15601	VALVE/ BALL	0.00	DEETH OVHD S.G. BALL CK								
				07/08/2010	M21	22900 PPM	VLV- SGL	07/08/2010	VLV-WO W	15300.00	
				07/08/2010	M21	15300 PPM		07/08/2010	VLV-WO W	142.00	
					M21			07/09/2010	VLV-TFIT T	142.00	
				07/09/2010	M21	142 PPM					07/09/2010
15867	VALVE/ GATE	2.00	9V17 DEETH TWR BTM S GLSS & FLT CHMBR DRAIN VLV								
				07/08/2010	M21	51600 PPM	VLV-SCR	07/08/2010	VLV-TFIT T	38000.00	
				07/08/2010	M21	38000 PPM		07/08/2010	VLV-TFIT T	11600.00	
				07/08/2010	M21	11600 PPM		07/08/2010	VLV-TPL G	18600.00	
				07/08/2010	M21	18600 PPM		07/08/2010	VLV-TPL G	26.00	

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2010 - 07/31/2010

Process Unit : 09

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
					M21			07/09/2010	VLV-TFITT	26.00	
				07/09/2010	M21	26 PPM					07/09/2010
17938	VALVE	0.75	S OF 9V38								
				07/15/2010	M21	573200 PPM	VLV-TUB	07/15/2010	VLV-TFITT	205800.00	
				07/15/2010	M21	205800 PPM		07/15/2010	VLV-TFITT	9.00	
					M21			07/16/2010	VLV-TFITT	9.00	
				07/16/2010	M21	9 PPM					07/16/2010
19362	VALVE	0.00	TOP PLT ABOVE 9V7								
				07/07/2010	M21	20400 PPM	VLV-PLUG	07/07/2010	VLV-TPLG	11000.00	
					M21			07/07/2010	VLV-TPLG	11000.00	
				07/07/2010	M21	11000 PPM		07/08/2010	VLV-TPLG	13.00	
				07/08/2010	M21	13 PPM					07/08/2010
19411	VALVE	0.75	9V9 E SDE OFF SG AT BLD								
				07/14/2010	M21	11000 PPM	VLV-PLUG	07/14/2010	VLV-TPLG	6.07	
				07/14/2010	M21	6.07 PPM					07/14/2010
19459	VALVE/ GATE	0.00	6/6 DISCH 9P4B	*** Placed on Delay for Turnaround on 11/03/2009 Removed From Turnaround List on 08/30/2010							
				10/06/2009	M21	3852 PPM	VLV-PKG	10/06/2009	VLV-TGAUGE	3706.00	
				10/06/2009	M21	3706 PPM		10/13/2009	VLV-TP	562.00	
				10/13/2009	M21	562 PPM					
				12/29/2009	M21	31900 PPM		12/29/2009	VLV-TIG	46900.00	
				12/29/2009	M21	46900 PPM					
				01/13/2010	M21	168600		01/13/2010	VLV-TIG	5479.00	

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2010 - 07/31/2010

Process Unit : 09

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
						PPM					
				01/13/2010	M21	5479 PPM					
				02/03/2010	M21	4 PPM		03/23/2010	VLV-TP	1037.00	
				03/23/2010	M21	1037 PPM					
				03/23/2010	M21	1992 PPM					
				04/23/2010	M21	18.27 PPM					
				05/23/2010	M21	1651 PPM		06/30/2010	VLV-RV	157600.00	
				06/30/2010	M21	157600 PPM					
				06/30/2010	M21	157600 PPM		07/15/2010	VLV-TP	10700.00	
				07/15/2010	M21	10700 PPM					
				07/15/2010	M21	15000 PPM		08/24/2010	VLV-TP	43100.00	
				08/24/2010	M21	43100 PPM					
				08/24/2010	M21	3911 PPM		08/30/2010	VLV-RV	18.00	
				08/30/2010	M21	18 PPM					08/30/2010
2-00071	VALVE/ GATE	0.75	9E12 S SDE BY GAV AT BLD								
				07/28/2010	M21	19700 PPM	VLV-PLUG	07/28/2010	VLV-TPLG	11700.00	
				07/28/2010	M21	11700 PPM		07/28/2010	VLV-TPLG	164.00	
					M21			07/29/2010	VLV-TPLG	164.00	
				07/29/2010	M21	164 PPM					07/29/2010
2-00422	VALVE/ GATE	0.75	W SDE ON PLTFRM OF 9C1	*** Placed on Delay for Turnaround on 01/23/2009							
				01/09/2009	M21	4530 PPM	VLV-SCR	01/09/2009	VLV-TFITT	14100.00	
				01/09/2009	M21	14100 PPM		01/14/2009	VLV-TFITT	4027.00	
				01/14/2009	M21	4027 PPM		01/20/2009	VLV-TFITT	1200.00	

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2010 - 07/31/2010

Process Unit : 09

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				01/20/2009	M21	1200 PPM					
				02/16/2009	M21	16 PPM					
				03/23/2009	M21	23 PPM		04/22/2009	VLV-TFITT	408900.00	
				04/22/2009	M21	408900 PPM					
				04/22/2009	M21	26 PPM					04/22/2009
2-00614	VALVE	0.00	NSDE 9E36								
				07/07/2010	M21	1406 PPM	VLV-PLUG	07/07/2010	VLV-TPLG	11300.00	
				07/07/2010	M21	11300 PPM		07/08/2010	VLV-TPLG	37.00	
				07/08/2010	M21	37 PPM					07/08/2010
2-00670	VALVE	0.00	UNDER 9E4								
				07/07/2010	M21	5189 PPM	VLV-PLUG	07/07/2010	VLV-TPLG	10900.00	
				07/07/2010	M21	10900 PPM		07/08/2010	VLV-TPLG	26.00	
				07/08/2010	M21	26 PPM					07/08/2010
2-00683	VALVE/ GATE	0.00	SSDE 9E4								
				07/07/2010	M21	52400 PPM	VLV-PLUG	07/07/2010	VLV-TPLG	10600.00	
				07/07/2010	M21	10600 PPM		07/08/2010	VLV-TPLG	154.00	
				07/08/2010	M21	154 PPM					07/08/2010
2-00888	VALVE/ GATE	0.50	#2 PASS FLOW QUICK OPEN@DPCELL DIB CHARGE HEATER								
				07/15/2010	M21	1471 PPM	VLV-PKG	07/15/2010	VLV-TP	4876.00	
				07/15/2010	M21	4876 PPM		07/15/2010	VLV-TP	12000.00	
					M21			07/20/2010	VLV-TP	12000.00	
				07/20/2010	M21	12000 PPM		07/27/2010	VLV-TP	12000.00	

Process Unit : 09

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				07/27/2010	M21	12000 PPM		07/27/2010	VLV-TP	32000.00	
				07/27/2010	M21	32000 PPM		07/28/2010	VLV-TP	7000.00	
				07/28/2010	M21	7000 PPM					
				07/29/2010	M21	7 PPM		07/29/2010	VLV-RV		07/29/2010
2-01657	VALVE/ GATE CS	0.75	FC514 DRAIN VLV ALKY BATTERY LIMITS GROUND LEVEL								
				07/07/2010	M21	13400 PPM	VLV-PLUG	07/07/2010	VLV-TPLG	4611.00	
				07/07/2010	M21	4611 PPM		07/07/2010	VLV-TFITT	10500.00	
				07/07/2010	M21	10500 PPM		07/07/2010	VLV-TPLG	1600.00	
				07/07/2010	M21	1600 PPM		07/07/2010	VLV-TFITT	26.00	
					M21			07/08/2010	VLV-TPLG	26.00	
				07/08/2010	M21	26 PPM					07/08/2010
21201	VALVE	0.75	L1/6 OFF OF 9V5								
				07/08/2010	M21	5125 PPM	VLV-PLUG	07/08/2010	VLV-TPLG	14000.00	
				07/08/2010	M21	14000 PPM		07/09/2010	VLV-TPLG	210.00	
				07/09/2010	M21	210 PPM					07/09/2010
21232	VALVE/ GATE	0.00	6/3 PIPING OFF DISCH 9P2A								
				07/15/2010	M21	29300 PPM	VLV-PKG	07/15/2010	VLV-TP	817.00	
				07/15/2010	M21	817 PPM		07/16/2010	VLV-TP	7.00	
				07/16/2010	M21	7 PPM					07/16/2010
~~24110~~	VALVE/ BALL	0.00	SMPLSTAT 5FT N OF 9E35	*** Placed on Delay for Turnaround on 01/23/2009							
				01/14/2009	M21	763 PPM	VLV-BON	01/14/2009	VLV-TBON	908.00	
				01/14/2009	M21	908 PPM		01/20/2009	VLV-TBO	4000.00	

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2010 - 07/31/2010

Process Unit : 09

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
									N		
				01/20/2009	M21	4000 PPM					
				02/16/2009	M21	611 PPM		02/16/2009	VLV-TBO N	573.00	
				02/16/2009	M21	573 PPM					
				03/23/2009	M21	97 PPM					
				04/22/2009	M21	35600 PPM		04/22/2009	VLV-TBO N	31100.00	
				04/22/2009	M21	31100 PPM		05/28/2009	VLV-TBO N	1260.00	
				05/28/2009	M21	1260 PPM					
				06/29/2009	M21	623 PPM		06/29/2009	VLV-TBO N	610.00	
				06/29/2009	M21	610 PPM					
				07/16/2009	M21	3616 PPM		07/16/2009	VLV-TBO N	1267.00	
				07/16/2009	M21	1267 PPM					
				08/17/2009	M21	2294 PPM		08/17/2009	VLV-TBO N	2065.00	
				08/17/2009	M21	2065 PPM					
				09/14/2009	M21	5222 PPM		09/14/2009	VLV-TBO N	4830.00	
				09/14/2009	M21	4830 PPM					
				10/14/2009	M21	4 PPM					
				11/20/2009	M21	46 PPM					
				12/10/2009	M21	46 PPM					
				01/12/2010	M21	189 PPM					
				02/02/2010	M21	3 PPM		03/23/2010	VLV-TBO N	774.00	
				03/23/2010	M21	774 PPM					

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2010 - 07/31/2010

Process Unit : 09

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				03/23/2010	M21	931 PPM					
				04/18/2010	M21	17.41 PPM					03/23/2010
27171	VALVE/ GATE	0.75	EAST AT 9E25 DRAIN VLV								
				07/07/2010	M21	89900 PPM	VLV-PLUG	07/07/2010	VLV-TPLG	18400.00	
				07/07/2010	M21	18400 PPM		07/08/2010	VLV-TPLG	28.00	
				07/08/2010	M21	28 PPM					07/08/2010
27200	VALVE/ BALL	0.00	SMPLSTAT 5FT N OF 9E35	*** Placed on Delay for Turnaround on 01/23/2009							
				01/20/2009	M21	650 PPM	VLV-BON	01/20/2009	VLV-TBON	670.00	
				01/20/2009	M21	670 PPM					
				02/16/2009	M21	642 PPM		02/16/2009	VLV-TBON	589.00	
				02/16/2009	M21	589 PPM					
				03/23/2009	M21	35 PPM					
				04/22/2009	M21	643 PPM		04/22/2009	VLV-TBON	12500.00	
				04/22/2009	M21	12500 PPM		05/28/2009	VLV-TBON	954.00	
				05/28/2009	M21	954 PPM					
				06/29/2009	M21	986 PPM		06/29/2009	VLV-TBON	900.00	
				06/29/2009	M21	900 PPM					
				07/20/2009	M21	16 PPM					
				08/17/2009	M21	36 PPM					
				09/14/2009	M21	37 PPM					
				10/14/2009	M21	42 PPM					
				11/20/2009	M21	43 PPM					
				12/10/2009	M21	41 PPM					

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2010 - 07/31/2010

Process Unit : 09

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				01/12/2010	M21	21 PPM					
				02/02/2010	M21	3 PPM					
				03/23/2010	M21	46.49 PPM					
				04/18/2010	M21	52.12 PPM					
				05/23/2010	M21	26.37 PPM					
				06/30/2010	M21	37.23 PPM		07/07/2010	VLV-TBO N	434.00	
				07/07/2010	M21	434 PPM					
				07/07/2010	M21	64.78 PPM					07/07/2010
30443	VALVE/ CTRL	0.00	TOP 9V18 NSDE 09PC0953								
				07/08/2010	M21	25700 PPM	VLV-PKG	07/08/2010	VLV-WO W	44000.00	
				07/08/2010	M21	44000 PPM		07/08/2010	VLV-WO W	452.00	
					M21			07/09/2010	VLV-TP	452.00	
				07/09/2010	M21	452 PPM					07/09/2010

Process Unit 09 Summary

	Component Count	Leak Count
Total in Group	23	23
Total Valves	21	21
Total Pumps	1	1
Total Compressors	1	1
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 09/01/2010 - 09/30/2010

Process Unit : 11

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
15532	VALVE	0.75	11V47 1ST LVL FRM TOP								
				09/15/2010	M21	5553 PPM	VLV-GAUGE	09/15/2010	VLV-TFITT	15100.00	
				09/15/2010	M21	15100 PPM		09/15/2010	VLV-TFITT	10000.00	
					M21			09/16/2010	VLV-TFITT	10000.00	
				09/16/2010	M21	10000 PPM		09/20/2010	VLV-TGAUGE	4.00	
				09/20/2010	M21	4 PPM					09/20/2010
15550	VALVE	0.50	11V47 1ST LVL FRM TOP	*** Placed on Delay for Turnaround on 07/02/2010							
				06/18/2010	M21	39600 PPM	VLV-SCR	06/18/2010	VLV-TFITT	664800.00	
				06/18/2010	M21	664800 PPM					
				08/23/2010	M21	8.99 PPM		09/15/2010	VLV-TFITT	16100.00	
				09/15/2010	M21	16100 PPM		09/15/2010	VLV-TFITT	23800.00	
				09/15/2010	M21	23800 PPM		10/11/2010	VLV-CL	351800.00	
				10/11/2010	M21	351800 PPM					
				10/11/2010	M21	364900 PPM		10/11/2010	VLV-CP	368300.00	
				10/11/2010	M21	368300 PPM					09/15/2010
30801	VALVE/ GATE	0.75	11V47 5TH LVL S SDE OF PLTFRM								
				09/15/2010	M21	3123 PPM	VLV-SCR	09/15/2010	VLV-TFITT	13100.00	
				09/15/2010	M21	13100 PPM		09/15/2010	VLV-TFITT	56.00	
					M21			09/16/2010	VLV-TFITT	56.00	

LEAKING EQUIPMENT LOG

Reporting Period 09/01/2010 - 09/30/2010

Process Unit : 11

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				09/16/2010	M21	56 PPM					09/16/2010
30803	VALVE/ GATE	0.50	11V47 5TH LVL S SDE OF PLTFRM								
				09/15/2010	M21	20300 PPM	VLV-SCR	09/15/2010	VLV-TFIT T	22200.00	
				09/15/2010	M21	22200 PPM		09/15/2010	VLV-TFIT T	6.02	
				09/15/2010	M21	6.02 PPM					09/15/2010
30811	VALVE/ GATE	0.50	11V47 5TH LVL S SDE OF PLTFRM								
				09/15/2010	M21	12700 PPM	VLV-SCR	09/15/2010	VLV-TFIT T	13200.00	
				09/15/2010	M21	13200 PPM		09/15/2010	VLV-TFI	16.00	
					M21			09/16/2010	VLV-TFIT T	16.00	
				09/16/2010	M21	16 PPM					09/16/2010

Process Unit 11 Summary

	Component Count	Leak Count
Total in Group	5	5
Total Valves	5	5
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 08/01/2010 - 08/31/2010

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
13669	VALVE	0.00	REF FUEL SAMPLE STATION BLEEDER ON INLET								
				08/16/2010	M21	746 PPM	VLV-PLUG	08/16/2010	VLV-TPLG	11600.00	
				08/16/2010	M21	11600 PPM		08/16/2010	VLV-TPLG	3.00	
					M21			08/17/2010	VLV-TPLG	3.00	
				08/17/2010	M21	3 PPM					08/17/2010
13901	VALVE	0.00	REF FUEL DRUM SG/FLOAT BLEED UNDER BTM BALL CHK								
				08/16/2010	M21	43400 PPM	VLV-PKG	08/16/2010	VLV-TP	193100.00	
				08/16/2010	M21	193100 PPM		08/16/2010	VLV-TP	34.00	
					M21			08/17/2010	VLV-TP	34.00	
				08/17/2010	M21	34 PPM					08/17/2010
16085	VALVE	0.50	12E9 S/S/ S END LVL VLM								
				08/17/2010	M21	172100 PPM	VLV-PLUG	08/17/2010	VLV-TPLG	55200.00	
				08/17/2010	M21	55200 PPM		08/17/2010	VLV-TPLG	56.00	
					M21			08/18/2010	VLV-TPLG	56.00	
				08/18/2010	M21	56 PPM					08/18/2010
24131	VALVE	0.50	12V49 LVL1								
				08/17/2010	M21	25800 PPM	VLV-GAUGE	08/17/2010	VLV-WOW	4330.00	
				08/17/2010	M21	4330 PPM		08/17/2010	VLV-WOW	28.00	
					M21			08/18/2010	VLV-TGAUGE	28.00	
				08/18/2010	M21	28 PPM					08/18/2010

LEAKING EQUIPMENT LOG

Reporting Period 08/01/2010 - 08/31/2010

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
24342	VALVE/ GATE	0.50	EL 7 FT 1 FT E OF 12P137 - N PRESS TAP	*** Placed on Delay for Turnaround on 08/31/2007							
				08/18/2007	M21	26200 PPM	VLV-SCR	08/18/2007	VLV-WOW	26200.00	
				08/18/2007	M21	26200 PPM					
				08/18/2007	M21	26200 PPM					
				09/27/2007	M21	14900 PPM					
				10/31/2007	M21	801 PPM					
				11/05/2007	M21	88000 PPM		11/05/2007	VLV-TPLG	60000.00	
				11/05/2007	M21	60000 PPM					
				11/29/2007	M21	60000 PPM					
				12/28/2007	M21	91 PPM		01/31/2008	VLV-TFITT	4850.00	
				01/31/2008	M21	4850 PPM					
				02/07/2008	M21	1521 PPM					
				02/07/2008	M21	2269 PPM					
				05/29/2008	M21	35 PPM					01/31/2008
24343	VALVE/ GATE	0.50	EL 7 FT 1 FT E OF 12P137 - S PRESS TAP	*** Placed on Delay for Turnaround on 08/31/2007							
				08/18/2007	M21	36300 PPM	VLV-PLUG				
				08/18/2007	M21	36300 PPM		08/18/2007	VLV-TPLG	36300.00	
				08/18/2007	M21	36300 PPM					
				09/27/2007	M21	156200 PPM					
				10/31/2007	M21	42000 PPM					
				11/05/2007	M21	89300 PPM		11/05/2007	VLV-TPLG	357400.00	
				11/05/2007	M21	357400 PPM					
				12/28/2007	M21	33900 PPM		12/28/2007	VLV-TPLG	13900.00	

LEAKING EQUIPMENT LOG

Reporting Period 08/01/2010 - 08/31/2010

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				12/28/2007	M21	13900 PPM		01/31/2008	VLV-TFITT	24000.00	
				01/31/2008	M21	24000 PPM					
				02/07/2008	M21	30500 PPM		02/07/2008	VLV-TFITT	58600.00	
				02/07/2008	M21	58600 PPM		03/31/2008	VLV-WOW	588600.00	
				03/31/2008	M21	588600 PPM					
				04/28/2008	M21	20500 PPM		04/28/2008	VLV-TPLG	14800.00	
				04/28/2008	M21	14800 PPM					
				05/29/2008	M21	133 PPM					
				06/26/2008	M21	12600 PPM		06/26/2008	VLV-TPLG	22000.00	
				06/26/2008	M21	22000 PPM					
				07/10/2008	M21	3 PPM					
				08/13/2008	M21	115 PPM					
				09/11/2008	M21	7 PPM					
				10/21/2008	M21	59500 PPM		10/21/2008	VLV-TPLG	84800.00	
				10/21/2008	M21	84800 PPM					
				11/24/2008	M21	149200 PPM		11/24/2008	VLV-TPLG	147000.00	
				11/24/2008	M21	147000 PPM					
				12/17/2008	M21	10 PPM					
				01/27/2009	M21	35 PPM					
				02/05/2009	M21	855000 PPM		02/05/2009	VLV-TPLG	851999.00	
				02/05/2009	M21	851999					

LEAKING EQUIPMENT LOG

Reporting Period 08/01/2010 - 08/31/2010

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
						PPM					
				03/20/2009	M21	544 PPM		03/20/2009	VLV-TGA UGE	753600.00	
				03/20/2009	M21	753600 PPM					
				04/30/2009	M21	24 PPM					
				05/04/2009	M21	302186 PPM		05/04/2009	VLV-TPL G	168236.00	
				05/04/2009	M21	168236 PPM					
				06/22/2009	M21	15 PPM					
				07/31/2009	M21	15 PPM					
				08/05/2009	M21	26300 PPM		08/05/2009	VLV-TPL G	8848.00	
				08/05/2009	M21	8848 PPM					
				09/23/2009	M21	33900 PPM		09/23/2009	VLV-TPL G	2363.00	
				09/23/2009	M21	2363 PPM					
				10/28/2009	M21	948 PPM		10/28/2009	VLV-TPL G	1647.00	
				10/28/2009	M21	1647 PPM					
				11/17/2009	M21	66000 PPM		11/17/2009	VLV-TGA UGE	44569.00	
				11/17/2009	M21	44569 PPM					
				12/30/2009	M21	8200 PPM		12/30/2009	VLV-TPL	6415.00	
				12/30/2009	M21	6415 PPM					
				01/26/2010	M21	7233 PPM		01/26/2010	VLV-TPL	5122.00	
				01/26/2010	M21	5122 PPM					
				02/02/2010	M21	17 PPM					
				03/10/2010	M21	18.99 PPM		04/14/2010	VLV-TPL G	20000.00	

LEAKING EQUIPMENT LOG

Reporting Period 08/01/2010 - 08/31/2010

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				04/14/2010	M21	20000 PPM					
				05/12/2010	M21	1317 PPM					
				06/29/2010	M21	185 PPM					04/14/2010
24830	VALVE	0.00	REF FUEL DRUM SG/FLOAT TOP BALL CHECK								
				08/16/2010	M21	7657 PPM	VLV-PKG	08/16/2010	VLV-TP	11700.00	
				08/16/2010	M21	11700 PPM		08/16/2010	VLV-TP	22.00	
					M21			08/17/2010	VLV-TP	22.00	
				08/17/2010	M21	22 PPM					08/17/2010
28661	VALVE/ OPEN-VLV	3.00	NORTH OF 12P200 CHEMICAL INJECTION TK 15' HIGH								
				08/17/2010	M21	11000 PPM	VLV-PKG	08/17/2010	VLV-TP	38400.00	
				08/17/2010	M21	38400 PPM					
				08/17/2010	M21	3.59 PPM					08/17/2010
29107	VALVE	0.75	12V45 LVL1								
				08/17/2010	M21	2569 PPM	VLV-PKG	08/17/2010	VLV-TP	17500.00	
				08/17/2010	M21	17500 PPM		08/17/2010	VLV-TP	136.00	
					M21			08/18/2010	VLV-TP	136.00	
				08/18/2010	M21	136 PPM					08/18/2010
3-00224	VALVE	2.00	12E9 S/S TOP LVL VLM								
	*** This component was not found to be leaking for this monitoring program but a workorder was created to manage repair actions										
				08/17/2010	M21	418 PPM	VLV-PKG	08/17/2010	VLV-TP	20100.00	
				08/17/2010	M21	20100 PPM		08/17/2010	VLV-TP	28600.00	
				08/17/2010	M21	28600 PPM		08/17/2010	VLV-TP	202.00	
					M21			08/24/2010	VLV-TP		
				08/24/2010	M21	202 PPM					08/17/2010
3-00799	VALVE/ GATE CS	2.00	RERUN TO CHARGE-12-12-12	*** Placed on Delay for Turnaround on 05/20/2009							
				05/06/2009	M21	624 PPM	VLV-PKG	05/06/2009	VLV-TBON	14500.00	

LEAKING EQUIPMENT LOG

Reporting Period 08/01/2010 - 08/31/2010

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				05/06/2009	M21	14500 PPM		05/18/2009	VLV-TBON	8900.00	
				05/18/2009	M21	8900 PPM		05/19/2009	VLV-TBON	1400.00	
				05/19/2009	M21	1400 PPM		05/20/2009	VLV-TBON	1057.00	
				05/20/2009	M21	1057 PPM					
				06/22/2009	M21	60 PPM					
				07/31/2009	M21	568 PPM		07/31/2009	VLV-TBON	701.00	
				07/31/2009	M21	701 PPM					
				08/05/2009	M21	139 PPM					
				09/23/2009	M21	20 PPM					
				10/28/2009	M21	2014 PPM		10/28/2009	VLV-TBON	1789.00	
				10/28/2009	M21	1789 PPM					
				11/17/2009	M21	899 PPM		11/17/2009	VLV-TBON	934.00	
				11/17/2009	M21	934 PPM					
				12/30/2009	M21	16 PPM					
				01/26/2010	M21	7 PPM					
				02/03/2010	M21	9.19 PPM					
				03/16/2010	VIS	P					
				03/23/2010	M21	542 PPM		03/23/2010	VLV-TIG	503.00	
				03/23/2010	M21	503 PPM					
				04/14/2010	M21	51 PPM		05/12/2010	VLV-TBON	336.00	
				05/12/2010	M21	336 PPM		05/12/2010	VLV-TBON	244.00	
				05/12/2010	M21	244 PPM					05/12/2010

LEAKING EQUIPMENT LOG

Reporting Period 08/01/2010 - 08/31/2010

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
3-01583	VALVE/ GATE CS	8.00	8" GATE IN FLOOR/C3/C4 OVHD OVHD COOLER-12-12-12								
				08/17/2010	M21	10200 PPM	VLV-PKG	08/17/2010	VLV-TP	4516.00	
				08/17/2010	M21	4516 PPM		08/17/2010	VLV-TP	126.00	
					M21			08/20/2010	VLV-TP	126.00	
				08/20/2010	M21	126 PPM					08/20/2010
3-01749	VALVE	0.75	21V4D LVL2 LVL CLM TOP BV > SG								
				08/11/2010	M21	29500 PPM	VLV-PKG	08/11/2010	VLV-TP	48.06	
				08/11/2010	M21	48.06 PPM					08/11/2010
3-01822	VALVE/ GATE	3.00	1/1 21V3	*** Placed on Delay for Turnaround on 09/05/2007							
				08/21/2007	M21	184900 PPM	VLV-PKG	08/21/2007	VLV-TP	184900.00	
				08/21/2007	M21	184900 PPM					
				08/21/2007	M21	38000 PPM		08/28/2007	VLV-INJ	39000.00	
				08/28/2007	M21	39000 PPM		08/28/2007	VLV-INJ	38000.00	
				08/28/2007	M21	38000 PPM					
				09/12/2007	M21	38000 PPM					
				10/31/2007	M21	1938 PPM					
				11/06/2007	M21	601 PPM		11/06/2007	VLV-TIG	1334.00	
				11/06/2007	M21	1334 PPM					
				11/29/2007	VIS	F					
				11/29/2007	M21	9520 PPM					
				12/07/2007	VIS	P					
				12/28/2007	M21	155 PPM					
				02/07/2008	M21	606 PPM		02/07/2008	VLV-TIG	789.00	
				02/07/2008	M21	789 PPM					
				05/23/2008	M21	898 PPM		05/23/2008	VLV-TGAUGE	1833.00	
				05/23/2008	M21	1833 PPM					

LEAKING EQUIPMENT LOG

Reporting Period 08/01/2010 - 08/31/2010

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				08/13/2008	M21	1435 PPM		08/13/2008	VLV-TGA UGE	404.00	
				08/13/2008	M21	404 PPM					
				09/11/2008	M21	30 PPM					
				10/21/2008	M21	1211 PPM		10/21/2008	VLV-TGA UGE	1072.00	
				10/21/2008	M21	1072 PPM					
				11/11/2008	M21	18 PPM					
				12/17/2008	M21	8 PPM					
				01/27/2009	M21	29 PPM					
				02/17/2009	M21	850 PPM		02/17/2009	VLV-TGA UGE	1110.00	
				02/17/2009	M21	1110 PPM					
				03/20/2009	M21	2019 PPM		03/20/2009	VLV-TGA UGE	1513.00	
				03/20/2009	M21	1513 PPM					
				04/30/2009	M21	23 PPM					
				05/06/2009	M21	2605 PPM		05/06/2009	VLV-TGA UGE	3027.00	
				05/06/2009	M21	3027 PPM					
				06/22/2009	M21	15 PPM					
				07/31/2009	M21	897 PPM		07/31/2009	VLV-TGA UGE	923.00	
				07/31/2009	M21	923 PPM					
				08/06/2009	M21	1438 PPM		08/06/2009	VLV-TGA UGE	2226.00	
				08/06/2009	M21	2226 PPM					
				09/23/2009	M21	1469 PPM		09/23/2009	VLV-TGA UGE	705.00	
				09/23/2009	M21	705 PPM					

LEAKING EQUIPMENT LOG

Reporting Period 08/01/2010 - 08/31/2010

Process Unit : 12-21

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				10/28/2009	M21	6 PPM					
				11/17/2009	M21	657 PPM		11/17/2009	VLV-TGA UGE	772.00	
				11/17/2009	M21	772 PPM					
				12/30/2009	M21	909 PPM		12/30/2009	VLV-TIG	652.00	
				12/30/2009	M21	652 PPM					
				01/26/2010	M21	547 PPM		01/26/2010	VLV-TIG	544.00	
				01/26/2010	M21	544 PPM					
				02/10/2010	M21	128 PPM					
				03/10/2010	M21	27.39 PPM		04/14/2010	VLV-TP	2200.00	
				04/14/2010	M21	2200 PPM					
				05/10/2010	M21	653 PPM					
				06/29/2010	M21	187 PPM					04/14/2010

Process Unit 12-21 Summary

	Component Count	Leak Count
Total in Group	14	14
Total Valves	14	14
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 09/01/2010 - 09/30/2010

Process Unit : 13

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
24754	VALVE	0.00	TOP LEVEL 13V14								
				09/15/2010	M21	6321 PPM	VLV-PKG	09/15/2010	VLV-TP	15700.00	
				09/15/2010	M21	15700 PPM		09/20/2010	VLV-TP	424.00	
				09/20/2010	M21	424 PPM					09/20/2010
3-01000	VALVE/ CTRL	2.00	DEETH REFLUX 13FI0412 @ 13V2								
				09/14/2010	M21	10400 PPM	VLV-PKG	09/14/2010	VLV-CL	4722.00	
				09/14/2010	M21	4722 PPM		09/15/2010	VLV-TP	110.00	
				09/15/2010	M21	110 PPM					09/15/2010
3-01001	VALVE/ GATE	2.00	E OF 13V2 @ CONT LOOP								
				09/14/2010	M21	34100 PPM	VLV-SCR	09/14/2010	VLV-CL	33100.00	
				09/14/2010	M21	33100 PPM		09/15/2010	VLV-INJ	2600.00	
				09/15/2010	M21	2600 PPM		09/15/2010	VLV-INJ	6.00	
				09/15/2010	M21	6 PPM					09/15/2010
3-01093	VALVE	0.75	CNTLP 4' E 13E3A								
				09/14/2010	M21	48100 PPM	VLV-SCR	09/14/2010	VLV-CL	85800.00	
				09/14/2010	M21	85800 PPM		09/15/2010	VLV-TFIT T	45.00	
				09/15/2010	M21	45 PPM					09/15/2010
3-01153	VALVE	0.50	13E4 S/S								
				09/26/2010	M21	22400 PPM	VLV-SCR	09/26/2010	VLV-TFIT T	53300.00	
				09/26/2010	M21	53300 PPM		09/27/2010	VLV-TFIT T	12000.00	
				09/27/2010	M21	12000 PPM		10/06/2010	VLV-TFIT T	483.00	
				10/06/2010	M21	483 PPM					10/06/2010
3-01513	VALVE	0.75	L1 13V2								
				09/15/2010	M21	1067 PPM	VLV-PKG	09/15/2010	VLV-TP	16600.00	
				09/15/2010	M21	16600 PPM		09/15/2010	VLV-TP	100.00	
				09/15/2010	M21	100 PPM					09/15/2010

LEAKING EQUIPMENT LOG

Reporting Period 09/01/2010 - 09/30/2010

Process Unit : 13

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
30288	VALVE/ GATE	4.00	N SDE 13E3A								
				09/14/2010	M21	17100 PPM	VLV-PKG	09/14/2010	VLV-TP	73.30	
				09/14/2010	M21	73.3 PPM					09/14/2010

Process Unit 13 Summary

	Component Count	Leak Count
Total in Group	7	7
Total Valves	7	7
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2010 - 07/31/2010

Process Unit : 14

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
23305	VALVE	0.75	CNTRLP N 14V38								
				07/20/2010	M21	133200 PPM	VLV-PLUG	07/20/2010	VLV-TPL G	3019.00	
				07/20/2010	M21	3019 PPM		07/22/2010	VLV-TPL G	198.00	
				07/22/2010	M21	198 PPM					07/22/2010
27112	VALVE/ GATE	0.75	BTWN 14E19 AND 14V32 10FT HIGH								
				07/20/2010	M21	10400 PPM	VLV-SCR	07/20/2010	VLV-TFIT T	3395.00	
				07/20/2010	M21	3395 PPM		07/20/2010	VLV-TFIT T	56.00	
					M21			07/21/2010	VLV-TFIT T	56.00	
				07/21/2010	M21	56 PPM					07/21/2010
27142	VALVE/ GATE	0.75	PRIMARY LIFT GAS GROUND LVL UNDER CCR								
				07/20/2010	M21	6496 PPM	VLV-PLUG	07/20/2010	VLV-TPL G	18900.00	
				07/20/2010	M21	18900 PPM		07/20/2010	VLV-TPL G	48.00	
					M21			07/21/2010	VLV-TPL G	48.00	
				07/21/2010	M21	48 PPM					07/21/2010
28020	VALVE/ GATE	0.75	PRIMARY LIFT GAS 1ST LVL CCR								
				07/20/2010	M21	15400 PPM	VLV-PLUG	07/20/2010	VLV-TPL G	20700.00	
				07/20/2010	M21	20700 PPM		07/20/2010	VLV-TPL G	46.00	
					M21			07/21/2010	VLV-TPL G	46.00	
				07/21/2010	M21	46 PPM					07/21/2010
28061	VALVE/ GATE	0.75	PRIMARY LIFT GAS 2ND LVL CCR								
				07/20/2010	M21	10700 PPM	VLV-PLUG	07/20/2010	VLV-TPL	9008.00	

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2010 - 07/31/2010

Process Unit : 14

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
28061	VALVE/ GATE	0.75	PRIMARY LIFT GAS 2ND LVL CCR								
									G		
				07/20/2010	M21	9008 PPM		07/20/2010	VLV-TPL G	16.00	
					M21			07/21/2010	VLV-TPL G	16.00	
				07/21/2010	M21	16 PPM					07/21/2010
28062	VALVE/ CTRL	0.00	PRIMARY LIFT GAS 2ND LVL CCR 14PCD991								
				07/20/2010	M21	3101 PPM	VLV-PKG	07/20/2010	VLV-WO W	15500.00	
				07/20/2010	M21	15500 PPM		07/20/2010	VLV-WO W	17.00	
					M21			07/21/2010	VLV-TP	17.00	
				07/21/2010	M21	17 PPM					07/21/2010
28070	VALVE/ GATE	0.75	PRIMARY LIFT GAS 2ND LVL CCR								
				07/20/2010	M21	10700 PPM	VLV-PLUG	07/20/2010	VLV-TPL G	13300.00	
				07/20/2010	M21	13300 PPM		07/20/2010	VLV-TPL G	17.00	
				07/21/2010	M21	17 PPM		07/21/2010	VLV-TPL G		07/21/2010
28072	VALVE/ GATE	0.75	PRIMARY LIFT GAS 2ND LVL CCR								
				07/20/2010	M21	2595 PPM	VLV-PLUG	07/20/2010	VLV-TPL G	10400.00	
				07/20/2010	M21	10400 PPM		07/20/2010	VLV-TPL G	24.00	
					M21			07/21/2010	VLV-TPL G	24.00	
				07/21/2010	M21	24 PPM					07/21/2010
4-00244	VALVE	0.75	15' E 14H2								
				07/20/2010	M21	10600 PPM	VLV-PLUG	07/20/2010	VLV-TPL G	20800.00	

Process Unit : 14

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				07/20/2010	M21	20800 PPM		07/20/2010	VLV-TPLG	33.00	
					M21			07/22/2010	VLV-TPLG	33.00	
				07/22/2010	M21	33 PPM					07/22/2010
4-00674	VALVE	0.75	DRAIN SR PLAT TO STG SR UNIT BATTERY LIMIT								
				07/22/2010	M21	8920 PPM	VLV-PKG	07/22/2010	VLV-TP	14500.00	
				07/22/2010	M21	14500 PPM		07/22/2010	VLV-TIG	114.00	
					M21			08/02/2010	VLV-TP	114.00	
				08/02/2010	M21	114 PPM					08/02/2010
4-00998	VALVE	0.75	PIPING SE OF 14C1 COMP DECK								
				07/21/2010	M21	5350 PPM	VLV-TUB	07/21/2010	VLV-TFITT	11600.00	
				07/21/2010	M21	11600 PPM		07/21/2010	VLV-TFITT	5283.00	
				07/21/2010	M21	5283 PPM		07/22/2010	VLV-TPLG	84.00	
				07/22/2010	M21	84 PPM					07/22/2010

Process Unit 14 Summary

	Component Count	Leak Count
Total in Group	11	11
Total Valves	11	11
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 08/01/2010 - 08/31/2010

Process Unit : 16

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
18940	VALVE	2.00	SOUTH WEST OF BW BOILER #1 FUEL GAS KO POT BOTTOM DRAIN VLV								
				08/10/2010	M21	33000 PPM	VLV-PLUG	08/10/2010	VLV-TPLG	7323.00	
				08/10/2010	M21	7323 PPM		08/10/2010	VLV-TPLG	20.00	
					M21			08/11/2010	VLV-TPLG	20.00	
				08/11/2010	M21	20 PPM					08/11/2010
20731	VALVE	2.00	L1/1 16V9 UP LADDER								
				08/10/2010	M21	11500 PPM	VLV-PKG	08/10/2010	VLV-TP	7087.00	
				08/10/2010	M21	7087 PPM		08/10/2010	VLV-TP	428.00	
					M21			08/11/2010	VLV-TP	428.00	
				08/11/2010	M21	428 PPM					08/11/2010
21122	VALVE/ BUTTERFLY	6.00	E SDE 16E1C 6FT HIGH	***Placed on Delay for Turnaround on 06/15/2009							
				05/20/2009	M21	759 PPM	VLV-PKG	05/20/2009	VLV-TGAUGE	785.00	
				05/20/2009	M21	785 PPM		06/01/2009	VLV-TP	1270.00	
				06/01/2009	M21	1270 PPM		06/02/2009	VLV-TP	24000.00	
				06/02/2009	M21	24000 PPM		06/02/2009	VLV-TP	8000.00	
				06/02/2009	M21	8000 PPM		06/02/2009	VLV-TGAUGE	5000.00	
				06/02/2009	M21	5000 PPM		06/02/2009	VLV-TP	6900.00	
				06/02/2009	M21	6900 PPM					
				07/30/2009	M21	10 PPM					
				08/13/2009	M21	3 PPM					
				09/29/2009	M21	57 PPM					
				10/28/2009	M21	5 PPM					
				11/20/2009	M21	37 PPM					
				12/16/2009	M21	6 PPM					

Process Unit : 16

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				01/26/2010	M21	19 PPM					
				02/02/2010	M21	129 PPM					
				03/10/2010	M21	430 PPM		04/30/2010	VLV-TP	506.00	
				04/30/2010	M21	506 PPM					
				05/19/2010	M21	33.86 PPM					
				06/29/2010	M21	48.35 PPM					
				07/30/2010	M21	26.54 PPM					
				08/06/2010	M21	29.7 PPM					
				09/23/2010	M21	63.65 PPM					
				10/08/2010	M21	38.26 PPM					
25599	VALVE/ GATE	4.00	CNTLP SW OF 16V9	*** Placed on Delay for Turnaround on 12/18/2009							
				11/20/2009	M21	2386 PPM	VLV-BON	11/20/2009	VLV-TBON	2349.00	
				11/20/2009	M21	2349 PPM		12/07/2009	VLV-TP	6000.00	
				12/07/2009	M21	6000 PPM		12/08/2009	VLV-TBON	6000.00	
				12/08/2009	M21	6000 PPM		12/08/2009	VLV-TBON	3000.00	
				12/08/2009	M21	3000 PPM		12/10/2009	VLV-INJ	135800.00	
				12/10/2009	M21	135800 PPM		12/11/2009	VLV-TBON	15000.00	
				12/11/2009	M21	15000 PPM		12/11/2009	VLV-INJ	22000.00	
				12/11/2009	M21	22000 PPM		12/14/2009	VLV-TBON	2300.00	
				12/14/2009	M21	2300 PPM		12/16/2009	VLV-INJ	2700.00	
				12/16/2009	M21	2700 PPM		12/17/2009	VLV-TBON	1200.00	
					M21			12/17/2009	VLV-TBON	1200.00	
				12/17/2009	M21	1200 PPM					

LEAKING EQUIPMENT LOG

Reporting Period 08/01/2010 - 08/31/2010

Process Unit : 16

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				01/26/2010	M21	77 PPM		02/10/2010	VLV-TBON	4310.00	
				02/10/2010	M21	4310 PPM		02/10/2010	VLV-TBON	2946.00	
				02/10/2010	M21	2946 PPM					
				03/16/2010	VIS	P					02/10/2010

Process Unit 16 Summary

	Component Count	Leak Count
Total in Group	4	4
Total Valves	4	4
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

MARATHON - DETROIT
1300 SOUTH FORT STREET
DETROIT, MI 48217

10/11/2010

GGGa (Valves 500)

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2010 - 09/30/2010

Process Unit : 29

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
28617	VALVE/ GATE	1.00	WEST SIDE 29T47								
				07/26/2010	M21	622 PPM	VLV-PKG	07/26/2010	VLV-TP	619.00	
				07/26/2010	M21	619 PPM		07/26/2010	VLV-TP	27.31	
				07/26/2010	M21	27.31 PPM					07/26/2010

Process Unit 29 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	1	1
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

No records were available for this report using the parameters specified

MARATHON - DETROIT
1300 SOUTH FORT STREET
DETROIT, MI 48217

10/11/2010

Gdga. (Pumps 2,000)

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2010 - 09/30/2010

Process Unit :

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed

Process Unit Summary

	Component Count	Leak Count
Total in Group	0	0
Total Valves	0	0
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2010 - 07/31/2010

Process Unit : 34

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
5-00884	VALVE	2.00	VENT RELIEF TANK 102 DYKE NORTH EAST. D.O.T NO FIRST ATTEMPT	*** Placed on Delay for Turnaround on 08/04/2010							
				07/25/2010	M21	45500 PPM	VLV-PKG	07/25/2010	VLV-TP	3880.00	
				07/25/2010	M21	3880 PPM		08/04/2010	VLV-SEJ	20000.00	
				08/04/2010	M21	20000 PPM		09/30/2010	VLV-CL	898.00	
				09/30/2010	M21	898 PPM		09/30/2010	VLV-CL	962.00	
				09/30/2010	M21	962 PPM					

Process Unit 34 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	1	1
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2010 - 07/31/2010

Process Unit : TERM

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
18437	VALVE/ GATE	0.50	#3 LOADING RACK MIDDLE BLK VLV FROM INST PANEL								
				07/14/2010	M21	5078 PPM	VLV-SCR	07/14/2010	VLV-TFIT T	16700.00	
				07/14/2010	M21	16700 PPM		07/28/2010	VLV-TFIT T	16.00	
				07/28/2010	M21	16 PPM					07/28/2010
18641	VALVE/ GATE	0.50	#2 LOADING RACK NORTH END BYPASS VLV								
				07/14/2010	M21	11800 PPM	VLV-SCR	07/14/2010	VLV-TFIT T	18400.00	
				07/14/2010	M21	18400 PPM		07/14/2010	VLV-TFIT T	32.00	
					M21			07/28/2010	VLV-TFIT T	32.00	
				07/28/2010	M21	32 PPM					07/28/2010

Process Unit TERM Summary

	Component Count	Leak Count
Total in Group	2	2
Total Valves	2	2
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

Table 3
Regulatory Leakers Requiring Delay of Repair - Third Quarter 2010
Michigan Refining Division

Complex	Unit	VOC Tag I.D.	Comp type	Date leak first detected	Component Description	Reason for delay of repair	Date Placed on delay of repair	Date of Actual/Anticipated Repair
5	2	12319	Valve	6/14/2010	Woodhaven manifold 12' Eof2205	Requires unit shutdown	7/13/2010	12/31/2010
5	2	12358	Valve	6/14/2010	Woodhaven manifold 22P50 Northside	Requires unit shutdown	7/13/2010	12/31/2010
5	2	12391	Fitting	6/14/2010	At 22P51	Requires unit shutdown	7/13/2010	12/31/2101
2	9	9C1	Compressor	11/12/2009	09C1 Seal leaking on East Side of housing	Requires unit shutdown	11/23/2009	12/31/2010
2	9	24110	Valve	1/14/2009	5 ft N of 9E35 at DIB sidecut sample station	Requires unit shutdown	1/23/2009	12/31/2010
2	9	27200	Valve	1/20/2009	5 ft N of 9E35 at DIB sidecut sample station	Requires unit shutdown	1/23/2009	12/31/2010
2	9	2-00422	Fitting	1/9/2009	9C1 screw fitting leak	Requires unit shutdown	1/22/2009	12/31/2010
2	9	19459	Valve	10/6/2009	Packing on valve Northside of 9P4B	Requires unit shutdown	11/3/2009	8/30/2010
2	9	14392	Pump	6/1/2010	Seal Leak on 9P1B	Removed For Repairs	6/15/2010	7/29/2010
3	11	15036	Fitting	6/18/2010	Level 8 of 11V47 (Reactor)	Requires unit shutdown	7/17/2010	12/31/2010
3	11	15550	Fitting	6/18/2010	Level 8 of 11V47 (Reactor)	Requires unit shutdown	7/2/2010	12/31/2010
3	12	24343	Plug	8/18/2007	Plug at 12P137	Requires unit shutdown	8/31/2007	12/31/2010
3	12	24342	Fitting	8/18/2007	Screwed fitting at 12P137	Requires unit shutdown	8/31/2007	12/31/2010
3	12	3-00799	Valve	5/6/2009	Gate Valve rerun to charge	Requires unit shutdown	5/20/2009	12/31/2010
3	12	24341	Valve	8/17/2010	Southeast of 12P137	Requires unit shutdown	9/15/2010	12/31/2010
3	21	3-01822	Valve	8/21/2007	Packing on valve at LVL 1	Requires unit shutdown	9/5/2007	12/31/2010
3	13	3-01159	Valve	9/10/2009	Screwed fitting on gatevalve,west side 13E1	Requires unit shutdown	10/7/2009	12/31/2010
4	16	25599	Valve	11/20/2009	Bonnet of gate valve leaking control loop SE of 16V9	Requires unit shutdown	12/18/2009	12/31/2010
4	16	21122	Valve	5/20/2009	Butterfly Valve NW side of 16E1C	Requires unit shutdown	6/15/2009	12/31/2010
5	22-1	5-01834	Flange	8/17/2009	Flange leaking @ top of TK99 South side of Catwalk	Requires unit shutdown	9/1/2009	12/31/2010
5	22-1	5-00024	Pump	4/5/2010	Pump house leaking on 22P89	Requires unit shutdown	4/19/2010	12/31/2010
5	34	5-00884	Valve	7/25/2010	Vent relief tnk 102 dyke NE	Requires unit shutdown	8/4/2010	12/31/2010

Table 4
Wastewater System Monitoring - Third Quarter 2010
Michigan Refining Division

Complex	Unit	Tag ID	Date	Service/Description	First Attempt	Recommended Fix	Final repair	Final Repair Date
1	1	565	9/9/2010	Manhole North of TK 14 (Near 7' Tunnel)	Work Order Written	Reseal Junction Box	Resealed Junction Box.	9/13/2010
1	1	433	9/23/2010	Drain Southwest Side of Recovered Oil Tank 29T47	Seal Drain	Sealed Drain	Weld New Drain	Unknown*
1	1	392	9/30/2010	Manhole East of Tank 53 in Dike	Work Order Written	Caulk Lid	Caulked Lid	10/1/2010
1	5	019	9/19/2010	Manhole 6 Feet West of 4E38A	Work Order Written	Caulk Lid	Caulked Lid	9/23/2010
1	5	021	9/19/2010	Manhole 40 Feet East of 29T12	Work Order Written	Clean Lid	Cleaned Lid	9/21/2010
4	16	420	9/29/2010	Manhole Eastern Edge of Unit 16 Near 16T1	Work Order Written	Clean Lid	Cleaned Lid	9/30/2010
5	34	381	9/29/2010	Manway West of Tank106	Work Order Written	Caulk Lid	Caulked Lid	9/30/2010
5	34	387	9/30/2010	Southern Most Lift Station North of Melvindale Tank Farm	Work Order Written	Caulk Lid	Caulked Lid	9/30/2010
5	34	426	9/29/2010	Manway West of Tank 104	Work Order Written	Caulk Lid	Caulked Lid	9/30/2010
5	34	564	9/29/2010	Manway Northwest of Tank 116	Work Order Written	Caulk Lid	Caulked Lid	9/30/2010
5	34	566	9/29/2010	Manway Southwest of Tank 116	Work Order Written	Caulk Lid	Caulked Lid	9/30/2010

*Drain put on Delay of Repair - Shutdown Form because Main DEPT effluent sewer line will need to be blinded if any welding/excavation work needs to be done. Work order submitted for drain. (WO2900002203)

Table 5
NSR Consent Decree Information Paragraphs 20B and 18P - Third Quarter 2010
Michigan Refining Division

Measures that MPC took during the 3rd Quarter 2010 to satisfy the provisions of Paragraph 20B and 18P(ii)(b) of the NSR Consent Decree:

Subparagraph	Requirement	Measures taken
20Bi	Training for personnel newly-assigned to LDAR	Greg Shay completed training in July 2009 for LDAR.
20Bii	Annual training for regular LDAR personnel	Regular LDAR work is contracted through Emissions Monitoring Service, Inc (EMSI Inc.) and Seal-Tech. EMSI and Seal-tech trains all personnel, training records are kept on-site.
20Biii	Training for Ops/Maint personnel	Refinery employees are required to complete a yearly Environmental Awareness CBT (Computer Based Training) module. This module, includes training information on the LDAR Program, was initiated on March 12, 2002. Additionally, contractors are required to attend a safety orientation on a yearly basis which includes information on the LDAR Program.
18P(ii)(b)	Laboratory Audits	The Detroit Refinery now has the ability to use RAD, ESC Labs of Nashville, TN, and Bureau Veritas of Livonia, MI to run all BWON samples. The Detroit Refinery began using ESC Labs of Nashville, TN on June 22, 2010.
18P(ii)(b)	Training	Affected Refinery employees are required to complete a yearly Benzene Sampling CBT (Computer Based Training) module. This module, includes training information on the Benzene NESHAP Program, was initiated on August 2002.
18P(ii)(b)	EOL Sampling Results	The EOL Sampling program was approved on March 8, 2010 for the Detroit Refinery. See Table 9 for EOL calculations.

Table 6
NSR Consent Decree Information Paragraph 20Oiic(2) - Third Quarter 2010
Michigan Refining Division

Complex	Unit	Description	Month monitored	# valves monitored	# pumps monitored	# compressors monitored	GGG # components leaking/quarter	GGGa # components leaking/quarter	# DTM components	Projected month of next monitoring
1	4	Vacuum Unit	Sep-10	370	5	3	1	na	1	Dec-10
	5	Crude Unit	Sep-10	1,924	25	0	1	na	12	Dec-10
	29	Wastewater Plant	Jul-10	467	11	0	na	1	0	Oct-10
2	7	Distillate Hydrotreater Unit	Sep-10	1,248	16.	3	1	na	24	Dec-10
	8	Gas Oil Hydrotreater Unit	Aug-10	1,505	5	2	2	na	27	Oct-10 & Dec 10
	9	Alkylation Unit	Jul-10	1,920	27	1	17	na	32	Oct-10
3	11	Fluid Catalytic Cracking Unit	Sep-10	493	7	0	4	na	1	Dec-10
	12/21	Gas Con/SATS Depropanizer	Aug-10	1,868	29	0	10	na	15	Oct-10 & Dec 10
	13	Propylene Unit	Sep-10	665	8	3	7	na	4	Dec-10
4	14	Continuous Catalytic Reforming Unit	Jul-10	2,003	13	2	11	na	33	Oct-10
	16	Naphtha Hydrotreater Unit	Aug-10	1,051	17	0	2	na	30	Oct-10 & Dec 10
	19	Kerosene Hydrotreater Unit	Jul-10	675	8	1	0	na	12	Oct-10
5	1	Crude Tank Farm	Aug-10	668	20	0	1	na	7	Nov-10
	2	LPG Tank Farm	Sep-10	1,377	16	0	17	na	40	Dec-10
	3/4	CP/Melvindale Tank Farms	Jul-10	1,317	20	0	1	na	34	Oct-10
		Light Product Terminal	Jul-10	639	8	0	2	na	0	Oct-10

Table 7
Inspection Certification required under 40 CFR 61.537 (d) (6) Benzene Waste NESHAP - Third Quarter 2010
Michigan Refining Division

Revised stream/equipment name/status	Required monitoring/inspections	Inspection Status	Monitoring/ inspection rule	Equipment Classification	Note No.	Visual	Method 21*
SR Platformer Aromatics Sump (aka CP Sump)	The sump and access hatches/openings must be visually inspected initially and quarterly.	Completed	61.346(b)(4)(iii)	Individual Drain System		X	
Piping from the CP Sump to the CP Flare Knock-out Drum	Valves and flanges on the flare line from the aromatics sump to the flare knock-out drum must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System and Control Devices			X
	Piping must be visually inspected initially and quarterly for evidence of visible defects such as holes in ductwork or piping and loose connections.	Completed	61.349(f)			X	
CP Sump Line from 14P10 to 11V25 and 11V4	Valves and flanges on the flare line from the aromatics sump to vessels 11V25 and 11V4 must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System and Control Devices			X
	Piping must be visually inspected initially and quarterly for evidence of visible defects such as holes in ductwork or piping and loose connections.	Completed	61.349(f)			X	
CP Flare Knock-out Drums - primary and secondary	The CP primary and secondary knock-out drums and all access hatches, flanges, sampling ports, etc. that are accessible (i.e., above-ground) must be checked for NDE initially and annually.	Completed	61.343(a)(1)(i)(A)	Tanks			X
	The drums and access hatches, flanges, etc. shall have initial and quarterly visual inspections.	Completed	61.343(b)			X	
Piping from CP Flare Knock-Out Drums to the refinery slop system (e.g., tanks 23 or 508) or the Low Pressure Receiver (11V4)	Piping from the CP Flare primary and secondary KO drums to the refinery slop system (e.g. tanks 23 or 508) shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Piping from Alky Spent caustic tank (9V31) through refinery flare line to the flare itself.	Valves and flanges on the flare line from the aromatics sump to the flare knock-out drum must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System and Control Devices			X
	Piping must be visually inspected initially and quarterly for evidence of visible defects such as holes in ductwork or piping and loose connections.	Completed	61.349(f)			X	
Piping from GasCon spent caustic tank (21V47) through refinery flare line to the flare itself.	Valves and flanges on the flare line from the aromatics sump to the flare knock-out drum must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System and Control Devices			X
	Piping must be visually inspected initially and quarterly for evidence of visible defects such as holes in ductwork or piping and loose connections.	Completed	61.349(f)			X	
Piping from Relief Valve of Merox System to CP Flare	Do not need to monitor or inspect this stream since it's now going to the flare system. Point of generation is the flare KO pot discharge.	–	N/A	–			
Piping from Disulfide Separator (21V33 or #3 Merox) to refinery slop system (Tank 23 or 508)	Valves and flanges on the flare line from the aromatics sump to the flare knock-out drum must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System and Control Devices			X
	Piping must be visually inspected initially and quarterly for evidence of visible defects such as holes in ductwork or piping and loose connections.	Completed	61.349(f)			X	
Tanks 508 and 23	Internal Floating Roof Tank Requirements	–	–	–			
Piping from Tank 507 to Tanks 508 and 23	Piping from Tank 507 to the refinery slop system (e.g., tank 508/23) shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	

Table 7
Inspection Certification required under 40 CFR 61.537 (d) (6) Benzene Waste NESHAP - Third Quarter 2010
Michigan Refining Division

Gravity Drum near Tank 507 (gravity drum near Tank 59 is currently out of service)	All openings, access hatches, sampling ports, etc. on the gravity drum near Tank 507 that are accessible (i.e., above-ground) must have initial and quarterly visual inspections.	Completed	61.343(a)(1)(i)(A)	Tanks		X	
	All openings, access hatches, sampling ports, etc. on the gravity drum near Tank 507 that are accessible (i.e., above-ground) must be checked for NDE initially and annually.	Completed	61.343(b)	Tanks			X
Tanks 29T40 and 29T41	All openings, access hatches, sampling ports, etc. on Tanks 29T40 and 29T41 must have initial and semi-annual visual inspections. (Tanks 29T40 and 29T41 permitted as QQQ tanks with external floating roofs)	Completed	60.693-2(a)(iv)(5)(i)	Alternative Standards for Oil-Water separators		X	
							X
Piping from API separator to Tanks 29T40/41	Piping from API separator to Tanks 29T40/41 shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Piping from Tanks 29T40/41 to Tanks 508 and 23	Piping from Tanks 29T40/41 to the refinery slop system (e.g., tank 508/23) shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Piping from Unifiner, Alkylation, and Crude Flare Knock-Out Drums to Tanks 23 and 508	Piping from the Crude, Unifiner, and Alky flare knock-out drums to the refinery slop system (e.g., tank 508/23) shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Trucks that Unload into Gravity Drum near Tank 507 (gravity drum near Tank 59 is currently out of service)	All access hatches, flanges, sampling ports, etc. on trucks that unload to this gravity drum must be checked for NDE initially and annually	Completed	61.345(a)(1)(i)	Containers			X
	Access hatches, flanges, etc. shall have initial and quarterly visual inspections.	Completed	61.345(b)	Containers		X	
Vacuum Trucks	All access hatches, flanges, sampling ports, etc. on vacuum trucks that unload to the refinery slop system must be checked for NDE initially and annually.	Conducted 2nd Quarter 2009	61.345(a)(1)(i)	Containers			X
	Access hatches, flanges, etc. shall have initial and quarterly visual inspections.	Completed	61.345(b)	Containers		X	
Piping from NHT Particulate Filter relief to slop system	Piping from the NHT Particulate Filter relief valve(s) to the refinery slop system (e.g. Tanks 508 or 23) shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Piping from the Disulfide off-gas knock-out drum (12V36) to the refinery slop system (e.g., tanks 23 or 508)	Oil collected in the Disulfide off-gas knock-out drum (12V36) may, on occasion, be routed to the refinery slop system (e.g., tank 508/23). This piping shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Piping from the West Plant slop system to tanks 23 and 508	Piping used to route slop oil from the West Plant to tanks 23 or 508 shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	

Table 7
Inspection Certification required under 40 CFR 61.537 (d) (6) Benzene Waste NESHAP - Third Quarter 2010
Michigan Refining Division

Piping associated with the carbon canister stations	Valves and flanges on the piping associated with each carbon canister station must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System and Control Devices			X
	The piping associated with each carbon canister station must be visually inspected initially and quarterly for evidence of visible defects such as holes in ductwork or piping and loose connections.	Completed	61.349(f)	Closed Vent System and Control Devices		X	
Carbon canisters	The carbon canisters themselves must be visually inspected initially and quarterly for evidence of visible defects such as holes in ductwork or piping and loose connections.	Completed	61.349(f)	Closed Vent System and Control Devices		X	
Water Draw covers	All water draw covers associated with NESHAP program should be tightly sealed. This includes tanks in the Crude tank farm (6, 36, 39, 40, 41, 45, 46, 47, 48, 49, 53, 61, 72), CP Tank Farm (21, 57), and Melvindale Tank Farm (102, 103, 104, 105, 106, 107, etc). Water draws shall be visually inspected initally and quarterly thereafter.	Completed	61.349(f)	Product draw down		X	
CP Flare	The flare stack itself shall be visually inspected initially and quarterly for evidence of visible defects such as holes in ductwork or piping and loose connections.	Completed	61.349(f)	Closed Vent System and Control Devices		X	
Piping from Tank 507 to the Benzene Stripper Column	Piping from Tank 507 to the Benzene Stripper Column shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Benzene Stripper Column (5V36)	Each seal, access door, and all other openings on the Benzene Stripper Column (5V36) shall be visually inspected initially and quarterly to ensure that no cracks or gaps occur and that openings are closed and gasketed properly.	Completed	61.348(e)(1)	Treatment Processes		X	
Piping from the top of the Benzene Stripper Column (5V36) to the overhead condensers (5E41A/B) and to the overhead receiver (5V37)	Valves and flanges on the piping from the stripper column to the condenser and to the overhead receiver must be monitored initially and annually for NDE.	Completed	61.349(a)(1)(i)	Closed Vent System and Control Devices			X
	Piping must be visually inspected initially and quarterly for evidence of visible defects such as holes in ductwork or piping and loose connections.	Completed	61.349(f)	Closed Vent System and Control Devices		X	
Benzene Stripper overhead condensers (5E41A/B)	The overhead condensers themselves must be visually inspected initially and quarterly for evidence of visible defects such as holes in ductwork or piping and loose connections.	Completed	61.349(f)	Closed Vent System and Control Devices		X	
Piping from the Crude Desalters (5V31/32) to the Benzene Stripper Column	Piping from the Crude Desalters to the Benzene Stripper Column shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Piping from the Benzene Stripper to the Brute Force System.	Piping from the Benzene Stripper to the Brute Force System shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Brute Force System	Each seal, access door, and all other openings on the Brute Force system shall be visually inspected initially and quarterly to ensure that no cracks or gaps occur and that openings are closed and gasketed properly.	Completed	61.357(d)(8)(g)	Alternative Standards for Oil-Water separators		X	
Tank 507	Floating roof tank requirements		--				

Table 7
Inspection Certification required under 40 CFR 61.537 (d) (6) Benzene Waste NESHAP - Third Quarter 2010
Michigan Refining Division

Piping from the Benzene Stripper overhead receiver (5V37) to the Crude Desalters	Piping from the Crude Desalters to the Benzene Stripper Column shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
API separator, forebay, and associated equipment	Access doors and openings on the API separator, forebay, and associated equipment (e.g., sumps) must be visually inspected initially and semi-annually to ensure that there's a tight fit and to identify other problems that could result in VOC emissions.	Completed	61.352; 60.693-2(a)(5)	Alternative Standards for Oil-Water separators		X	
Piping from CP Sump to refinery slop system (e.g. tanks 23, or 508)	Piping from the CP Aromatics Sump to the refinery slop system (e.g. tanks 23, or 508) shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Piping from Gravity Drum near Tk 507 to tanks 23 and 508	Piping from the Gravity Drum near Tk 507 to tanks 23 and 507 shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Piping from Gravity Drum near Tk 507 and piping at Tk 508 used for Vacuum Truck operations (gravity drum near Tk 59 currently out of service).	Piping from Gravity Drum near Tk 507 used for Vacuum Truck operations and piing at Tk 508 used for Vacuum Truck operations shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Piping from Tank 51 to tanks 23 or 508.	Piping from Tank 51 to tanks 23 or 508 shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Tank 51	Floating roof tank requirements		--				
Piping from Tank 52 to tanks 23 or 508.	Piping from Tank 51 to tanks 23 or 508 shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Tank 52	Floating roof tank requirements		--				
Piping from CP Flare Secondary K.O. Drum to CP Flare	Piping from CP Flare Secondary K.O. Drum to CP Flare shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Hydrocarbon/liquid line from CP Sump to FCCU low pressure receiver or refinery slop system.	Hydrocarbon/liquid line from CP Sump to FCCU low pressure receiver or refinery slop system (e.g. tanks 23 or 508) shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Piping from CP Flare Knock-Out Drums to the FCCU high and low pressure slop header	Piping from CP Flare Knock-Out Drums to the FCCU high and low pressure slop header shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Piping from CP Sump to FCCU high and low pressure slop header	Piping from CP Sump to FCCU high and low pressure slop header shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Piping from FCCU high pressure slop header to high pressure slop bullets	Piping from FCCU high pressure slop header to high pressure slop bullets shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Piping from FCCU low pressure slop header to low pressure slop bullets	Piping from FCCU low pressure slop header to low pressure slop bullets shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
High and low pressure slop bullets	All openings, access hatches, sampling ports, etc. on high and low pressure slop bullets that are accessible (i.e., above-ground) must have initial and quarterly visual inspections.	Completed	61.343(a)(1)(i)(A)	Tanks		X	
Above-ground sewer lines from Melvindale or Crude Tank Farms to Tank 507	Above-ground piping from the Melvindale or Crude Tank Farms to Tank 507 shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Piping from the Marketing Terminal sewer to Tanks 23/508	Piping used to route slop oil from the Marketing Terminal sewer to Tanks 23/508 shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	

Table 7
Inspection Certification required under 40 CFR 61.537 (d) (6) Benzene Waste NESHAP - Third Quarter 2010
Michigan Refining Division

Truck drain downs at Terminal loading rack	Truck drain downs at Terminal loading rack shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Aboveground piping from truck drain downs to NESHAP Sump	Aboveground piping from truck drain downs to NESHAP Sump shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Terminal NESHAP Sump	Terminal NESHAP Sump shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Tank 29T47	Access doors and openings on 29T47 must be visually inspected initially and semi-annually to ensure that there's a tight fit and to identify other problems that could result in VOC emissions. (QQQ Tank)	Completed	61.352; 60.693-2(a)(5)	Alternative Standards for Oil-Water separators		X	
All piping to and from 29T47	All piping to and from 29T47 shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Piping from Spent Caustic Tank (9V10) to new Caustic Pot (9T29)	Piping used to route from the Spent Caustic Tank (9V10) to the Caustic Pot (9T29) shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Spent Caustic Pot 9T29	Spent Caustic Pot 9T29 shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Tank Cleanouts	All tank cleanouts associated with the NESHAP program shall be inspected initally and quarterly for evidence of visible defects.	Completed	61.349(f)	Product draw down		X	
Railcars (when applicable to BWON)	All access hatches, flanges, sampling ports, etc. on all railcars storing FCCU slop or other high benzene containing material must be checked for NDE initially and annually.	Conducted 2nd Quarter 2009	61.345(a)(1)(i)	Containers			X
	Access hatches, flanges, etc. shall have initial and quarterly visual inspections.	Completed	61.345(b)	Containers		X	
API separator floating roof inspections	5 year primary seal, Annual secondary seal.	Completed	61.357(d)(8)(g)	Alternative Standards for Oil-Water separators	2		
All piping to Lab Slop Oil Tank	Piping used to route material to the Lab Slop Tank shall be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions.	Completed	61.346(b)(4)(iv)	Individual Drain System		X	
Lab Slop Tank	Access doors and openings on Lab Slop Oil Tank must be visually inspected initially and quarterly for indications of cracks, gaps, or other problems that could result in benzene emissions. Tank is equipped with conservation vent for vapor control.	Completed	61.343(b)	Tanks		X	
Lab Slop Tank	All access doors, openings, flanges, sampling ports, etc. on the lab slop tank must be checked for NDE initially and annually.	Completed	61.343(b)	Tanks			X

Notes:
1. Visual inspections carried out during August 2010
2. Secondary Seal was inspected during June 2010.

*Method 21 readings for valves are completed quarterly.

Table 8
Exceedance Summary for Various Control Equipment or Treatment Processes
Third Quarter 2010
Michigan Refining Division

Equipment	Reporting Requirement	No. of Reportable Exceedances this Quarter	Regulation	Equipment Classification
Desalter Water Flash Column	Each period of operation during which the concentration of benzene is > or = to 10 ppm based upon monthly sampling of Desalter Water Flash Column effluent.	0	40 CFR 61.348(a)(1)(i) & 357(d)(7)(i)	Treatment Processes
Carbon Canisters	Each occurrence when the carbon in a carbon adsorber system that is not regenerated directly on site in the control device is not replaced at the predetermined interval specified.	1	40 CFR 61.357(d)(7)(iv)(I)	Closed Vent System or Control Device
		0	40 CFR 60.692-5(e)(5)	Closed Vent System or Control Device
Water Draw covers	All water draw covers associated with NESHAP program should be tightly sealed. This includes tanks in the Crude tank farm (6, 36, 39, 40, 41, 45, 46, 47, 48, 49, 53, 61, 72), CP Tank Farm (21, 57), and Melvindale Tank Farm (102, 103, 104, 105, 106, 107, 120, 125, 126, 127, 128, 133, 134, 112, 113, 114, 115, 129, 130, 176, 108, 109, 110, 116)	13	61.349(f)	Closed Vent System
Inspections[1]	Summarizes all inspections required by 61.342 through 61.354 during which detectable emissions are measured or a problem (such as a broken seal, etc.) that could result in benzene emissions, including information about the repairs or corrective action taken.	34	61.357(d)(8)	See Table 7

Note: 1. Inspections include valves and flanges that had NDE reading above 500 ppm. If defiencies are noted, an attached summary sheet will be included.

LEAKING EQUIPMENT LOG

Process Unit : 01

Program: NESHAPS-FI

Reporting Period 07/01/2010 - 09/30/2010

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
30298	VALVE/ WTR DRW	0.00	N SIDE OF TK61 WATER DRAW	09/23/2010	M21	3032 PPM	VLV-SEL	09/23/2010	VLV-TFIT T	471.00	09/23/2010
30299	VALVE/ WTR DRW	0.00	N SIDE OF TK49 WATER DRAW	09/23/2010	M21	471 PPM					
				09/23/2010	M21	833 PPM	VLV-SEL	09/23/2010	VLV-TFIT T	21.30	09/23/2010
30309	VALVE/ WTR DRW	0.00	S SIDE OF TK40 WATER DRAW	09/23/2010	M21	21.3 PPM					
				09/23/2010	M21	1896 PPM	VLV-SEL	09/23/2010	VLV-SEJ	7600.00	09/24/2010
				09/23/2010	M21	7600 PPM		09/24/2010	VLV-SEJ	0.00	
				09/24/2010	VIS	P					
				09/24/2010	M21	121 PPM					09/24/2010

Process Unit 01 Summary

	Component Count	Leak Count
Total in Group	3	3
Total Valves	3	3
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Process Unit : 02

Program: NESHAPS

Reporting Period 07/01/2010 - 09/30/2

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Complete
12417	VALVE	0.75	LPG TK 83 TOP/TOP BALL CHK	09/03/2010	M21	722 PPM	VLV-PKG	09/03/2010	VLV-TP	870.00	
				09/03/2010	M21	870 PPM		09/07/2010	VLV-TP	128.00	
				09/07/2010	M21	128 PPM					09/07/2010
12440.1	CONNECTOR/ SCREWED	1.00	TK 190 TOP BYPASS FLARE	09/30/2010	VIS	F	CON-UNION	09/30/2010	CON-TU	18000.00	
				09/30/2010	M21	18000 PPM					
				09/30/2010	M21	13900 PPM					
12449	VALVE	2.00	TK 191 TOP FLOAT CHAMBER	10/01/2010	VIS	P		10/01/2010	CON-TIG	0.00	
				10/01/2010	M21	58 PPM					10/01/2010
12549.1	CONNECTOR/ SCREWED	0.50	TK 82 TOP S.G./TOP BALL CHK	09/02/2010	M21	2370 PPM	VLV-SCR	09/02/2010	VLV-CL	3350.00	
				09/02/2010	M21	3350 PPM		09/08/2010	VLV-TFITT	11.00	
				09/08/2010	M21	11 PPM					09/08/2010
14448	VALVE/ ORBIT	2.00	TK 190 TOP BLK VLV TO BOTH FLOAT CHAMBERS-02	09/27/2010	VIS	F	CON-CONNEC	09/27/2010	CON-TCON	2653.00	
				09/27/2010	M21	2653 PPM					
				09/27/2010	M21	1339 PPM					
				09/29/2010	M21	113 PPM		09/29/2010	CON-TIG	113.00	
				09/29/2010	VIS	P					09/29/2010
				09/02/2010	M21	61400 PPM	VLV-BON	09/02/2010	VLV-CL	15300.00	
				09/02/2010	M21	15300 PPM		09/08/2010	VLV-TBON	106.00	
				09/08/2010	M21	106 PPM					09/08/2010

LEAKING EQUIPMENT LOG

Process Unit : 02

Program: NESHAPS-F

Reporting Period 07/01/2010 - 09/30/201

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
5-01783.3	CONNECTOR/ SCREWED	0.75	BTM NORTH 190 COND LPG								
				09/27/2010	M21	2457 PPM	NEC				
				09/27/2010	M21	1827 PPM					
				09/29/2010	VIS	P		09/29/2010	CON-TIG	0.00	
				09/29/2010	M21	8 PPM					
											09/29/2010
5-01783.5	CONNECTOR/ SCREWED	0.75	BTM NORTH 190 COND LPG								
				09/27/2010	VIS	F	CON-CON				
				09/27/2010	M21	18600 PPM	NEC				
				09/28/2010	VIS	P		09/28/2010	CON-TIG	0.00	
				09/28/2010	M21	21 PPM					
											09/28/2010
5-01784	VALVE/ GATE	0.75	BTM NORTH 190 COND LPG								
				09/02/2010	M21	86600 PPM	VLV-PKG	09/02/2010	VLV-TP	18900.00	
				09/02/2010	M21	18900 PPM		09/08/2010	VLV-TP	63.00	
				09/08/2010	M21	63 PPM					
											09/08/2010
5-01846	VALVE/ GATE	4.00	TOP 190 COND LPG								
				09/02/2010	M21	174400 PPM	VLV-PKG	09/02/2010	VLV-TP	174400.00	
				09/02/2010	M21	174400 PPM		09/08/2010	VLV-TP	56.00	
				09/08/2010	M21	56 PPM					
											09/08/2010

LEAKING EQUIPMENT LOG

Process Unit : 02

Program: NESHAPS-

Reporting Period 07/01/2010 - 09/30/20

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed

Process Unit 02 Summary

	Component Count	Leak Count
Total in Group	17	17
Total Valves	7	7
Total Pumps	1	1
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	9	9
Total Agitators	0	0
Total Other Equipment	0	0

Unit : 04

LEAKING EQUIPMENT LOG

Program: NESH

Reporting Period 07/01/2010 - 09/3

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Comp
1-00253	PUMP/ RECIPRO	0.00	4P44 FLARE PUMP-04	09/01/2010	VIS	F	PMP-SEAL				
				09/01/2010	M21	581 PPM					
				09/02/2010	VIS	P		09/02/2010	PMP-WS E	0.00	
				09/02/2010	M21	308 PPM					

09/02/20

Process Unit 04 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	0	0
Total Pumps	1	1
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

Reporting Period 07/01/2010 - 09/30/2010

Process Unit : 05

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
16556	VALVE/ NEEDLE	0.50	E OF CRUDE HTR LVL 1 @ 5V37 FLSH COL OF RECVR TOP SOUTH END OF SC								
				09/08/2010	M21	819 PPM	VLV-SCR	09/08/2010	VLV-TFIT T	707.00	
				09/08/2010	M21	707 PPM		09/08/2010	VLV-TFIT T	20.00	
								09/10/2010	VLV-TFIT T	20.00	
				09/10/2010	M21	20 PPM					09/10/2010

Process Unit 05 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	1	1
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Program: NESHAPS-FF

Reporting Period 07/01/2010 - 09/30/2010

Process Unit : 29

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
28617	VALVE/ GATE	1.00	WEST SIDE 29T47								
				07/26/2010	M21	622 PPM	VLV-PKG	07/26/2010	VLV-TP	619.00	
				07/26/2010	M21	619 PPM		07/26/2010	VLV-TP	27.31	
				07/26/2010	M21	27.31 PPM					07/26/2010

Process Unit 29 Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	1	1
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2010 - 09/30/2010

Process Unit : 34

Compliance Group : 01

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
30314	VALVE/ WTR DRW	0.00	W SIDE OF TK129 WATER DRAW								
				09/30/2010	M21	578 PPM	VLV-CAP	09/30/2010	VLV-TCA P	159.00	
				09/30/2010	M21	159 PPM					09/30/2010
30326	VALVE/ WTR DRW	0.00	NW SIDE OF TK101 WATER DRAW								
				09/30/2010	M21	2944 PPM	VLV-CAP	09/30/2010	VLV-TCA P	868.00	
				09/30/2010	M21	868 PPM		10/01/2010	VLV-CL	0.00	
				10/01/2010	VIS	P					
				10/01/2010	M21	303 PPM					10/01/2010
30327	VALVE/ WTR DRW	0.00	E SIDE OF TK116 WATER DRAW								
				09/30/2010	M21	1235 PPM	VLV-CAP	09/30/2010	VLV-TCA P	1130.00	
				09/30/2010	M21	1130 PPM		10/01/2010	VLV-CL	0.00	
				10/01/2010	VIS	P					
				10/01/2010	M21	202 PPM					10/01/2010
30328	VALVE/ WTR DRW	0.00	NW SIDE OF TK116 WATER DRAW								
				09/30/2010	M21	706 PPM	VLV-SEL	09/30/2010	VLV-CL	551.00	
				09/30/2010	M21	551 PPM		10/01/2010	VLV-CL	0.00	
				10/01/2010	VIS	P					
				10/01/2010	M21	157 PPM					10/01/2010
30330	VALVE/ WTR DRW	0.00	E SIDE OF TK102 WATER DRAW								
				09/30/2010	M21	1472 PPM	VLV-CAP	09/30/2010	VLV-TCA P	5775.00	
				09/30/2010	M21	5775 PPM		10/01/2010	VLV-CL	0.00	
				10/01/2010	VIS	P					

Process Unit : 34

Compliance Group : 01

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				10/01/2010	M21	11 PPM					10/01/2010
30331	VALVE/ WTR DRW	0.00	E SIDE OF TK103 WATER DRAW								
				09/30/2010	M21	34300 PPM	VLV-CAP	09/30/2010	VLV-CL	4012.00	
				09/30/2010	M21	4012 PPM		10/01/2010	VLV-CL	0.00	
				10/01/2010	VIS	P					
				10/01/2010	M21	161 PPM					10/01/2010
30341	VALVE/ WTR DRW	0.00	SE SIDE OF TK108 WATER DRAW								
				09/30/2010	M21	845 PPM	VLV-BON	09/30/2010	VLV-CL	6125.00	
								09/30/2010	VLV-CL	6125.00	
				09/30/2010	M21	6125 PPM		10/01/2010	VLV-CL	0.00	
				10/01/2010	VIS	P					
				10/01/2010	M21	125 PPM					10/01/2010
30352	VALVE/ WTR DRW	0.00	SW SIDE OF TK115 WATER DRAW								
				09/30/2010	M21	556 PPM	VLV-CAP	09/30/2010	VLV-CL	251.00	
				09/30/2010	M21	251 PPM					09/30/2010
30354	VALVE/ WTR DRW	0.00	S SIDE OF TK113 WATER DRAW								
				09/30/2010	M21	3966 PPM	VLV-CAP	09/30/2010	VLV-CL	3689.00	
				09/30/2010	M21	3689 PPM		10/01/2010	VLV-CL	0.00	
				10/01/2010	VIS	P					
				10/01/2010	M21	110 PPM					10/01/2010
30356	VALVE/ WTR DRW	0.00	E SIDE OF TK113 WATER DRAW								
				09/30/2010	M21	847 PPM	VLV-CAP	09/30/2010	VLV-TCA P	569.00	
				09/30/2010	M21	569 PPM		10/01/2010	VLV-CL	0.00	
				10/01/2010	VIS	P					

LEAKING EQUIPMENT LOG

Reporting Period 07/01/2010 - 09/30/2010

Process Unit : 34

Compliance Group : 01

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
				10/01/2010	M21	63 PPM					10/01/2010

Process Unit 34 Summary

	Component Count	Leak Count
Total in Group	10	10
Total Valves	10	10
Total Pumps	0	0
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

Process Unit : TERM

Tag Number	Part / Type	Size	Location	Monitor Date	Test Method	PPM Reading	Part Leaking	Repair Date	Repair Method	Remonitor Reading	Date Completed
30551	PUMP/ CENTRIF	0.00	PUMP AT AA-10 -2 TERM								
				09/01/2010	VIS	F	PMP-PKG	09/01/2010	PMP-WO W	619.00	
				09/01/2010	M21	619 PPM					
				09/01/2010	M21	123 PPM					
				09/01/2010	VIS	P					09/01/2010

Process Unit TERM Summary

	Component Count	Leak Count
Total in Group	1	1
Total Valves	0	0
Total Pumps	1	1
Total Compressors	0	0
Total Relief Valves	0	0
Total Connectors	0	0
Total Agitators	0	0
Total Other Equipment	0	0

Table 9
Michigan Refining Division
Third Quarter End of Line Calculations

Q3 2010		S1 Sand Filter Effluent	S2 29T40/41	S3a Centrifuge Solids	S3b 29T12	S7 29T47	S4 Vacuum Truck	S5 Miscellaneous	S6 Spent Caustic	Monthly Total (kg)
July-10	Individual Sample Results (ppm)	0.19	110.00	0.03	0.05	0.14				
		0.19	600.00	--	2.50	21.00				
		0.60	370.00	0.25	4.50	29.10				
		0.22	460.00	0.01	0.05	120.00				
	Average Sample Results (ppm)	0.30	385.00	0.10	1.78	42.56				
	Waste Volume (gallons/month)	53,568,000	0.00	294,445	27,000	16,316				
	Waste Amount (kg)	203,071,418	0	133,839	73,416	61,854				
	Monthly EOL Benzene Quantity (kg)*	60.68	0.00	0.01	0.13	2.63	640.88	27.66	0.19	732.18
August-10	Individual Sample Results (ppm)	0.47	110.00	0.10	8.37	920.00				
		0.23	390.00	46.73	0.06	553.33				
		0.15	226.67	41.73	0.16	553.33				
		0.44	130.00	0.62	2.50	323.33				
		0.26	113.33	0.13	0.61	416.67				
	Average Sample Results (ppm)	0.32	214.17	22.30	2.77	587.50				
	Waste Volume (gallons/month)	53,568,000	57,998	356,790	51,000	26,472				
	Waste Amount (kg)	203,071,418	219,865	162,177	138,675	71,980				
	Monthly EOL Benzene Quantity (kg)*	65.49	47.09	3.62	0.38	42.29	150.20	9.23	0.14	318.43
September-10	Individual Sample Results (ppm)	0.26	116.67	48.77	0.34	333.33				
		0.16	71.67	0.18	0.50	370.00				
		0.18	64.00	--	2.50	296.67				
		0.15	61.67	2.86	333.33	0.05				
	Average Sample Results (ppm)	0.19	78.50	17.27	84.17	250.01				
	Waste Volume (gallons/month)	51,840,000	9846	323,200	6,000	7,905				
	Waste Amount (kg)	196,520,727	37,326	146,909	16,315	29,967				
	Monthly EOL Benzene Quantity (kg)*	37.01	2.93	2.54	1.37	7.49	69.71	0.08	0.07	121.20
Quarterly Benzene totals (kg):		163.19	50.02	6.17	1.89	52.41	860.79	36.96	0.39	1,171.81

*For non-detect results, 1/2 the detection limit is used in the calculated quantity.

Third Quarter EOL Benzene Quantity (Mg):	1.17181	Third Quarter EOL Benzene Quantity (Kg):	1,171.81