From:	Wallace, William T.
То:	EGLE-ROP
Cc:	Sweeley, Brian J.; Matthews, Cindi A.
Subject:	B9073 - ROP Renewal Application
Date:	Monday, April 15, 2024 3:13:47 PM
Attachments:	image001.png
	B9073 Cover Letter - Niles ROP Renewal Application .pdf
	B9073 ROP Renewal Application Form EOP 6000 RO Signed.pdf
	B9073 ROP Markup.docx
	B9073 Niles CAM Plan Mark-UP.docx
	B9073 Niles CAM Plan Changes Accepted.docx
	B9073 Niles Maintenance and Inspection Plan Mark-Up.docx
	B9073 Niles Maintenance and Inspection Plan Mark-Up CHANGES ACCEPTED.docx
	B9073 Niles ROP Renewal Emission Calculations Printed.docx
	Niles Butane Storage Emissions-Terminal Fugitives.xlsx

CAUTION: This is an External email. Please send suspicious emails to abuse@michigan.gov

Dear Sir/Madam,

Please find enclosed the required five-year ROP renewal application covering continued operation of the MPLX Terminals LLC marketing terminal located in Niles, MI (SRN: B9073).

The enclosed documents include the following:

- Renewal Application Cover Letter
- ROP Renewal Application form EQP 6000 (signed by the Responsible Official)
- Mark up edits of existing ROP
- Two versions of the existing Compliance Assurance Monitoring Plan (mark-up edits and a clean copy with edits accepted)
- Two versions of the existing Maintenance and Inspection Plan (mark-up edits and a clean copy with edits accepted)
- Two Potential to emit documents.
 - Niles ROP Renewal Emission Calculations Printed
 - Niles Butane Storage Emissions Terminal Fugitives
 - Pertaining to EQP 6000 G1

A hardcopy of the application package is being submitted to the Kalamazoo District Office Supervisor concurrent with this submittal.

Please do not hesitate to contact me at 618-553-3095 or <u>wtwallace@marathonpetroleum.com</u> if you have any questions or require additional information.

Thank you,



Will Wallace Environmental Engineer

Office: 317-260-3285

Mobile: 618-553-3095 Email: <u>wtwallace@marathonpetroleum.com</u>

1304 Olin Ave Indianapolis, IN 46222



MPLX Terminals LLC

539 South Main Street Findlay, OH 45840

3/13/2024

Supervisor Kalamazoo District MDEQ, Air Quality Division 7953 Adobe Road Kalamazoo, MI 49009-5026

Re: Submittal of ROP Renewal Application, MPLX Terminals LLC, Niles Terminal (SRN:B9073)

To Whom It May Concern,

Please find enclosed the required five-year Renewable Operating Permit (ROP) renewal application covering continued operation of the MPLX Terminals LLC Marketing Terminal located in Niles, Michigan (SRN: B9073). The enclosed documents include the following:

- ROP Renewal Application Form certified via Responsible Official signature.
- Mark-up edits of the existing ROP.
- AI-001 Additional Information Form
- Two versions of the existing Compliance Assurance Monitoring Plan (CAM). These include mark-up edits and a clean copy with edits accepted.
- Two versions of the existing Maintenance and Inspection Plan. These include mark-up edits and a clean copy with edits accepted.
- Potential to emit calculations.

An electronic copy of the aforementioned documents is being submitted concurrent with this submittal. Please do not hesitate to contact me at (618)553-3095 or wtwallace@marathonpetroleum if you have any questions or require additional information.

Sincerely, MPLX Terminals LLC

Will Wallace

Will Wallace Environmental Engineer <u>wtwallace@marathonpetroleum.com</u> C: 618-553-3095



RENEWABLE OPERATING PERMIT RENEWAL APPLICATION FORM

This information is required by Article II, Chapter 1, Part 55 (Air Pollution Control) of P.A. 451 of 1994, as amended, and the Federal Clean Air Act of 1990. Failure to obtain a permit required by Part 55 may result in penalties and/or imprisonment. Refer to instructions for additional information to complete the Renewable Operating Permit Renewal Application Form.

GENERAL INSTRUCTIONS

This application form should be submitted as part of an administratively complete application package for renewal of a Renewable Operating Permit (ROP). This application form consists of nine parts. Parts A – H must be completed for all applications and must also be completed for each section of a sectioned ROP. Answer all questions in all parts of the form unless directed otherwise. Detailed instructions for this application form can be found at http://michigan.gov/air (select the Permits Tab, "Renewable Operating Permits (ROP)/Title V", then "ROP Forms & Templates").

PART A: GENERAL INFORMATION

Enter information about the source, owner, contact person and the responsible official.

SOURCE INFORMATION

SRN	SIC Code	NAICS C	ode	Exist	ting ROP Number		Section Number (if applicable)	
B9073	5171	42710		MI-I	ROP-B9073-2019			
Source Name	· · · ·							
Niles Termina	al							
Street Address								
2216 South T	Γhird St							
City			State		ZIP Code	County		
Niles			MI		49120	Berrien		
Section/Town/R	ange (if address not a	vailable)	1					
Source Descript	ion							
Petroleum Bu	ulk Station and Te	rminal						
				ifferer	it than what appea	irs in the existing	ROP. Identify any changes	
on the ma	arked-up copy of y	our existing	g ROP.					
OWNER INF	ORMATION							
Owner Name							Section Number (if applicable)	
MPLX Termi	nals LLC							
-	(check if same as	source addres	s)					
539 South M	ain St							

City	State	ZIP Code	County	Country
Findlay	ОН	45840-2169	Hancock	USA

Check here if any information in this ROP renewal application is confidential.	Confidential information should be
identified on an Additional Information (AI-001) Form.	

PART A: GENERAL INFORMATION (continued)

At least one contact and responsible official must be identified. Additional contacts and responsible officials may be included if necessary.

CONTACT INFORMATION

Contact 1 Name			Title			
William Wallace			Environm	ental Engineer		
Company Name & Mailing address Marathon Petroleum, 1304 C		source addres	s)			
City	State	ZIP Code)	County	Country	
Indianapolis	IN	46222		Marion	USA	
Phone number	•	E-mail ac	ldress			
618-553-3095		Wtwalla	ace@mara	athonpetroleum		
		•				
Contact 2 Name (optional)			Title			
Brian Sweeley			Environ	mental Compliance	e Supervisor	
Company Name & Mailing address Marathon Petroleum	(☐ check if same as	source addres	s)			
City	State	ZIP Cod	de	County	Country	
Findlay	ОН	45840)	Hancock	USA	
Phone number		E-mail a	address			
409-370-6368		Bjswe	eley@ma	rathonpetroleum.co	om	
RESPONSIBLE OFFICIAL I	NEORMATION					
Responsible Official 1 Name			Title			
Angele Dressin						

Angela Brown		\ \	Vice Presi	ident MPLX Te	rminals LL	.C	
Company Name & Mailing address (∏ check if 539 S Main St	same as source	e address)					
		ZIP Code		County		Country	
Findlay	ОН	45840		Hancock		USA	
Phone number		E-mail add	lress				
419-421-3774	I	asbrown	@marath	onpoetroleum.	com		

Responsible Official 2 Name (optional) Regina Zolnor				ident MPLX Te	erminals LLC		
Company Name & Mailing address (check if 539 S Main St	same as sourc	e address)					
City Findlay	State OH	ZIP Code 45840		County Hancock	Country USA		
[· · · · · · · · · · · · · · · · · · ·			mail address MZolnor@marathonpetroleum.com				

Check here if an AI-001 Form is attached to provide more information for Part A. Enter AI-001 Form ID:

SRN: B9073 Section Number (if applicable):

PART B: APPLICATION SUBMITTAL and CERTIFICATION by Responsible Official

Identify the items that are included as part of your administratively complete application in the checklist below. For your application to be complete, it must include information necessary to evaluate the source and to determine all applicable requirements. Answer the compliance statements as they pertain to all the applicable requirements to which the source is subject. The source's Responsible Official must sign and date this form.

Listi	ng of ROP Application Contents. Check the box f	for th	e items included with your application.
	Completed ROP Renewal Application Form (and any AI-001 Forms) (required)		Compliance Plan/Schedule of Compliance
	Mark-up copy of existing ROP using official version from the AQD website (required)		Stack information
	Copies of all Permit(s) to Install (PTIs) that have not been incorporated into existing ROP (required)		Acid Rain Permit Initial/Renewal Application
	Criteria Pollutant/Hazardous Air Pollutant (HAP) Potential to Emit Calculations		Cross-State Air Pollution Rule (CSAPR) Information
	MAERS Forms (to report emissions not previously submitted)		Confidential Information
	Copies of all Consent Order/Consent Judgments that have not been incorporated into existing ROP	\boxtimes	Paper copy of all documentation provided (required)
	Compliance Assurance Monitoring (CAM) Plan		Electronic documents provided (optional)
	Other Plans (e.g., Malfunction Abatement, Fugitive Dust, Operation and Maintenance, etc.)		Other, explain:

Compliance Statement

This source is in compliance with <u>all</u> of its applicable requirements, including those contained in the existing ROP, Permits to Install that have not yet been incorporated into that ROP, and other applicable requirements not currently contained in the existing ROP.	🛛 Yes	🗌 No
This source will continue to be in compliance with all of its applicable requirements, including those contained in the existing ROP, Permits to Install that have not yet been incorporated into that ROP, and other applicable requirements not currently contained in the existing ROP.	🛛 Yes	🗌 No
This source will meet in a timely manner applicable requirements that become effective during the	10	and the second se

permit term.

🛛 Yes 🗌 No

The method(s) used to determine compliance for each applicable requirement is/are the method(s) specified in the existing ROP, Permits to Install that have not yet been incorporated into that ROP, and all other applicable requirements not currently contained in the existing ROP.

If any of the above are checked No, identify the emission unit(s) or flexible group(s) affected and the specific condition number(s) or applicable requirement for which the source is or will be out of compliance at the time of issuance of the ROP renewal on an AI-001 Form. Provide a compliance plan and schedule of compliance on an AI-001 Form.

Name and Title of the Responsible Official (Print or Type)

Angela Brown, Vice President

For Assistance Contact: 800-662-9278

As a Responsible Official, I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this application are true, accurate, and complete.

3 of 12

Signature / Responsible Official

Date

PART C: SOURCE REQUIREMENT INFORMATION

Answer the questions below for specific requirements or programs to which the source may be subject.

C1.	Actual emissions and associated data from <u>all</u> emission units with applicable requirements (including those identified in the existing ROP, Permits to Install and other equipment that have not yet been incorporated into the ROP) are required to be reported in MAERS. Are there any emissions and associated data that have <u>not</u> been reported in MAERS for the most recent emissions reporting year? If <u>Yes</u> , identify the emission unit(s) that was/were not reported in MAERS on an AI-001 Form. Applicable MAERS form(s) for unreported emission units must be included with this application.	🗌 Yes	No No
C2.	Is this source subject to the federal regulations on ozone-depleting substances? (40 CFR Part 82)	🛛 Yes	🗌 No
C3.	Is this source subject to the federal Chemical Accident Prevention Provisions? (Section 112(r) of the Clean Air Act Amendments, 40 CFR Part 68)	🗌 Yes	🛛 No
	If <u>Yes</u> , a Risk Management Plan (RMP) and periodic updates must be submitted to the USEPA. Has an updated RMP been submitted to the USEPA?	🗌 Yes	🗌 No
C4.	Has this stationary source <u>added or modified</u> equipment since the last ROP renewal that changes the potential to emit (PTE) for criteria pollutant (CO, NOx, PM10, PM2.5, SO ₂ , VOC, lead) emissions?	🗌 Yes	🛛 No
	If <u>Yes</u> , include potential emission calculations (or the PTI and/or ROP revision application numbers, or other references for the PTE demonstration) for the added or modified equipment on an AI-001 Form. If <u>No</u> , criteria pollutant potential emission calculations do not need to be included.		
C5.	Has this stationary source added or modified equipment since the last ROP renewal that changes the PTE for hazardous air pollutants (HAPs) regulated by Section 112 of the federal Clean Air Act?	🗌 Yes	🛛 No
	If <u>Yes</u> , include potential emission calculations (or the PTI and/or ROP revision application numbers or other references for the PTE demonstration) for the added or modified equipment on an AI-001 Form. Fugitive emissions <u>must</u> be included in HAP emission calculations. If <u>No</u> , HAP potential emission calculations do not need to be included.		
C6.	Are any emission units subject to the Cross-State Air Pollution Rule (CSAPR)? If <u>Yes</u> , identify the specific emission unit(s) subject to CSAPR on an AI-001 Form.	🗌 Yes	🛛 No
C7.	Are any emission units subject to the federal Acid Rain Program? If <u>Yes</u> , identify the specific emission unit(s) subject to the federal Acid Rain Program on an AI-001 Form.	🗌 Yes	🛛 No
	Is an Acid Rain Permit Renewal Application included with this application?	🗌 Yes	🛛 No
C8.	Are any emission units identified in the existing ROP subject to compliance assurance monitoring (CAM)? If <u>Yes</u> , identify the specific emission unit(s) subject to CAM on an AI-001 Form. If a CAM plan has not been previously submitted to EGLE, one must be included with the ROP renewal application on an AI-001 Form. If the CAM Plan has been updated, include an updated copy.	🛛 Yes	🗌 No
	Is a CAM plan included with this application? If a CAM Plan is included, check the type of proposed monitoring included in the Plan:	🛛 Yes	🗌 No
	 Monitoring proposed by the source based on performance of the control device, or Presumptively Acceptable Monitoring, if eligible 		
C9.	Does the source have any plans such as a malfunction abatement plan, fugitive dust plan, operation/maintenance plan, or any other monitoring plan that is referenced in an existing ROP, Permit to Install requirement, or any other applicable requirement?	🛛 Yes	🗌 No
	If <u>Yes</u> , then a copy must be submitted as part of the ROP renewal application.		
C10.	Are there any specific requirements that the source proposes to be identified in the ROP as non-applicable?	🗌 Yes	🛛 No
	If <u>Yes</u> , then a description of the requirement and justification must be submitted as part of the ROP renewal application on an AI-001 Form.		
\bowtie	Check here if an AI-001 Form is attached to provide more information for Part C. Enter AI-001 For	m ID: Al	-01

PART D: PERMIT TO INSTALL (PTI) EXEMPT EMISSION UNIT INFORMATION

Review all emission units at the source and answer the question below.

D1. Does the source have any emission units that do not appear in the existing ROP but are required to be listed in the ROP application under R 336.1212(4) (Rule 212(4)) of the Michigan Air Pollution Control Rules? If Yes, identify the emission units in the table below.

🛛 Yes 🗌 No

If No, go to Part E.

Note: Emission units that are subject to process specific emission limitations or standards, even if identified in Rule 212, must be captured in either Part G or H of this application form. Identical emission units may be grouped (e.g. PTI exempt Storage Tanks).

stores petroleum contact waterCTCEUWA-10-28,400 gallon fixed roof storage tank that stores petroleum contact waterRule 212(4)(d)Rule 284(2)(i)EUBUTANEOne or more skids that inject butane into gasoline tank recirculation loopsRule 212(4)(i)Rule 291EUTKAA1-6840 gallon fixed roof storage tank that stores additiveRule 212(4)(d)Rule 284(2)(i)EUTKAA1-6840 gallon capacity fixed roof storage tank that stores additiveRule 212(4)(d)Rule 284(2)(i)EUTKAA10-27,900 gallon capacity fixed roof storage tank that stores additiveRule 212(4)(d)Rule 284(2)(i)EUTKAA8-17,700 gallon capacity fixed roof storage tank that stores additiveRule 212(4)(d)Rule 284(2)(i)EUTKAA6-36,000 gallon capacity fixed roof storage tank that stores additiveRule 212(4)(d)Rule 284(2)(i)EUTKAA6-36,000 gallon capacity fixed roof storage tank that stores additiveRule 212(4)(d)Rule 284(2)(i)	Emission Unit Description	Rule 212(4) Citation [e.g. Rule 212(4)(c)]	Rule 201 Exemption Rule Citation [e.g. Rule 282(2)(b)(i)]
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that stores additive		Rule 212(4)(d)	Rule 284(2)(i)
Comments:		Rule 212(4)(d)	Rule 284(2)(i)
Comments:			
		 550 gallon fixed roof storage tank that stores additive. 68,400 gallon fixed roof storage tank that stores petroleum contact water 8,400 gallon fixed roof storage tank that stores petroleum contact water One or more skids that inject butane into gasoline tank recirculation loops 840 gallon fixed roof storage tank that stores additive 7,900 gallon capacity fixed roof storage tank that stores additive 7,700 gallon capacity fixed roof storage tank that stores additive 6,000 gallon capacity fixed roof storage tank 	Emission offit Description[e.g. Rule 212(4)(c)]550 gallon fixed roof storage tank that stores additive.Rule 212(4)(d)68,400 gallon fixed roof storage tank that stores petroleum contact waterRule 212(4)(d)8,400 gallon fixed roof storage tank that stores petroleum contact waterRule 212(4)(d)0ne or more skids that inject butane into gasoline tank recirculation loopsRule 212(4)(i)840 gallon fixed roof storage tank that stores additiveRule 212(4)(d)7,900 gallon capacity fixed roof storage tank that stores additiveRule 212(4)(d)7,700 gallon capacity fixed roof storage tank that stores additiveRule 212(4)(d)6,000 gallon capacity fixed roof storage tank that stores additiveRule 212(4)(d)

PART E: EXISTING ROP INFORMATION

Review all emission units and applicable requirements (including any source wide requirements) in the <u>existing</u> ROP and answer the questions below as they pertain to <u>all</u> emission units and <u>all</u> applicable requirements in the existing ROP.

E1.	Does the source propose to make any additions, changes or deletions to terms, conditions and underlying applicable requirements as they appear in the existing ROP?	🗌 Yes	🛛 No
	If Yes, identify changes and additions on Part F, Part G and/or Part H.		
E2.	For each emission unit(s) identified in the existing ROP, <u>all</u> stacks with applicable requirements are to be reported in MAERS. Are there any stacks with applicable requirements for emission unit(s) identified in the existing ROP that were <u>not</u> reported in the most recent MAERS reporting year? If <u>Yes</u> , identity the stack(s) that was/were not reported on applicable MAERS form(s).	🗌 Yes	🛛 No
E3.	Have any emission units identified in the existing ROP been modified or reconstructed that required a PTI?	🗌 Yes	🛛 No
	If <u>Yes</u> , complete Part F with the appropriate information.		
E4.	Have any emission units identified in the existing ROP been dismantled? If <u>Yes</u> , identify the emission unit(s) and the dismantle date in the comment area below or on an AI-001 Form.	🛛 Yes	🗌 No
EUF rem	nments: RACK-NORTH: Dismantled in 09/2014. The marked-up ROP included with this permit application r oval of this load rack and VRU. Additionally, this load rack has not been included in the PTE calcu mitted with this application.		
	Check here if an AI-001 Form is attached to provide more information for Part E. Enter AI-001 For	rm ID: Al·	

PART F: PERMIT TO INSTALL (PTI) INFORMATION

Review all emission units and applicable requirements at the source and answer the following questions as they pertain to <u>all</u> emission units with PTIs. Any PTI(s) identified below must be attached to the application.

F1. Has the source been incorpora If <u>No</u> , go to Pa	🗌 Yes 🛛 No					
Permit to Install Number	Inits/Flavibla					
emission unit affected in the	s in the existing ROF	ange, add, or delete terms/conditions to established P? If <u>Yes</u> , identify the emission unit(s) or flexible group(s) ow or on an AI-001 Form and identify all changes, additions, xisting ROP.	🗌 Yes 🗌 No			
the ROP? If Y	F3. Do any of the PTIs listed above identify new emission units that need to be incorporated into the ROP? If <u>Yes</u> , submit the PTIs as part of the ROP renewal application on an AI-001 Form, Yes No and include the new emission unit(s) or flexible group(s) in the mark-up of the existing ROP.					
listed above th	F4. Are there any stacks with applicable requirements for emission unit(s) identified in the PTIs listed above that were <u>not</u> reported in MAERS for the most recent emissions reporting year? If ☐ Yes ☐ No <u>Yes</u> , identity the stack(s) that were not reported on the applicable MAERS form(s).					
or control devi	ces in the PTIs listed	tive changes to any of the emission unit names, descriptions above for any emission units not already incorporated into nges on an AI-001 Form.	☐ Yes ☐ No			
Comments:						
Check here if an AI-001 Form is attached to provide more information for Part F. Enter AI-001 Form ID: AI-						

SRN: B9073 Section Number (if applicable):

PART G: EMISSION UNITS MEETING THE CRITERIA OF RULES 281(2)(h), 285(2)(r)(iv), 287(2)(c), OR 290

Review all emission units and applicable requirements at the source and answer the following questions.

	ny new and/or existing emission units which do <u>not</u> already appear in hich meet the criteria of Rules 281(2)(h), 285(2)(r)(iv), 287(2)(c), or 290.					
If <u>Yes</u> , identify the emiss	🛛 Yes 🗌 No					
	n units were installed under the same rule above, provide a description m/modification/reconstruction date for each.					
Origin of Applicable Requirements				description of Process Equipment, Control Devices and Unit was		
Rule 281(2)(h) or 285(2)(r)(iv) cleaning operation						
Rule 287(2)(c) surface coating line						
Rule 290 process with limited emissions	EUBUTANE – 87,000 gallon butane storage bullet and additional butane truck offloading skid to be added to existing butane blending system.	09/01/2024				
new butane offloading skid w system and will not be capab	et will be added to the current butane blending system in September 20 <i>i</i> ll be constructed for this project. The butane bullet will use the existing ble of in-line blending at the truck load rack. Component fugitive PTE ca cation showing that the project PTE is 35 lb/yr (2.92 lb/month) which is t	tank blending Iculations have				

Check here if an AI-001 Form is attached to provide more information for Part G. Enter AI-001 Form ID: AI-

PART H: REQUIREMENTS FOR ADDITION OR CHANGE

Complete this part of the application form for all proposed additions, changes or deletions to the existing ROP. This includes state or federal regulations that the source is subject to and that must be incorporated into the ROP or other proposed changes to the existing ROP. **Do not include additions or changes that have already been identified in Parts F or G of this application form.** If additional space is needed copy and complete an additional Part H.

Complete a separate Part H for each emission unit with proposed additions and/or changes.

H1	. Are there changes that need to be incorporated into the ROP that have not been identified in Parts F and G? If <u>Yes</u> , answer the questions below.	🛛 Yes	🗌 No
H2	2. Are there any proposed administrative changes to any of the existing emission unit names, descriptions or control devices in the ROP? If <u>Yes</u> , describe the changes in questions H8 – H16 below and in the affected Emission Unit Table(s) in the mark-up of the ROP.	🛛 Yes	🗌 No
H	B. Does the source propose to add a new emission unit or flexible group to the ROP not previously identified in Parts F or G? If <u>Yes</u> , identify and describe the emission unit name, process description, control device(s), monitoring device(s) and applicable requirements in questions H8 – H16 below and in a new Emission Unit Table in the mark-up of the ROP. See instructions on how to incorporate a new emission unit/flexible group into the ROP.	☐ Yes	No No
H4	Does the source propose to add new state or federal regulations to the existing ROP?	🗌 Yes	🛛 No
	If <u>Yes</u> , on an AI-001 Form, identify each emission unit/flexible group that the new regulation applies to and identify <u>each</u> state or federal regulation that should be added. Also, describe the new requirements in questions H8 – H16 below and add the specific requirements to existing emission units/flexible groups in the mark-up of the ROP, create a new Emission Unit/Flexible Group Table, or add an AQD template table for the specific state or federal requirement.		
H	5. Has a Consent Order/Consent Judgment (CO/CJ) been issued where the requirements were not incorporated into the existing ROP? If <u>Yes</u> , list the CO/CJ number(s) below and add or change the conditions and underlying applicable requirements in the appropriate Emission Unit/Flexible Group Tables in the mark-up of the ROP.	☐ Yes	No No
He	5. Does the source propose to add, change and/or delete source-wide requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.	☐ Yes	No
H7	7. Are you proposing to streamline any requirements? If <u>Yes</u> , identify the streamlined and subsumed requirements and the EU ID, and provide a justification for streamlining the applicable requirement below.	Yes	No

PART H: REQUIREMENTS FOR ADDITION OR CHANGE – (continued)

H8. Does the source propose to add, change and/or delete emission limit requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.	☐ Yes	No No
H9. Does the source propose to add, change and/or delete material limit requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.	☐ Yes	No No
H10. Does the source propose to add, change and/or delete process/operational restriction requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.	☐ Yes	No No
H11.Does the source propose to add, change and/or delete design/equipment parameter requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.	☐ Yes	No 🛛
H12.Does the source propose to add, change and/or delete testing/sampling requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.	☐ Yes	No No
H13.Does the source propose to add, change and/or delete monitoring/recordkeeping requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.	☐ Yes	No No
H14.Does the source propose to add, change and/or delete reporting requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.	☐ Yes	No No

PART H: REQUIREMENTS FOR ADDITION OR CHANGE – (continued)

H15.Does the source propose to add, change and/or delete stack/vent restrictions ? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.	Yes	No No
H16.Does the source propose to add, change and/or delete any other requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.	☐ Yes	No
H17.Does the source propose to add terms and conditions for an alternative operating scenario or intra-facility trading of emissions? If <u>Yes</u> , identify the proposed conditions in a mark-up of the corresponding section of the ROP and provide a justification below.	Yes	No No
Check here if an AI-001 Form is attached to provide more information for Part H. Enter AI-001 For	m ID: AI-	01



RENEWABLE OPERATING PERMIT APPLICATION AI-001: ADDITIONAL INFORMATION

This information is required by Article II, Chapter 1, part 55 (Air Pollution Control) of P.A. 451 of 1994, as amended, and the Federal Clean Air Act of 1990. Failure to obtain a permit required by Part 55 may result in penalties and/or imprisonment. Please type or print clearly. Refer to instructions for additional information to complete this form.

	SRN: B9073	Section Number (if applicable):		
1. Additional Information ID AI-01				
Additional Information				
2. Is This Information Confidential?		🗌 Yes 🛛 No		
Part C: CAM Plan: - SV-VRU-South, SV-VCU-PORT (RANE), and SV-VCU-PORT (ZINK) are subject to a CAM Plan				

An updated CAM Plan is being provided with this renewal submission to remove SV-VRU-NORTH. As
previously stated, this VRU has been dismantled and is being removed from the permit.

Part H: Name/description changes:

- Edits are being requested to emission unit descriptions in the Emission Unit Summary Table. The changes consist mostly of tank capacities in the FGTANKFARM Emission Group. The updated capacities are not a result of projects or any physical changes to the tanks. The updated capacities reflect the most up to date information and alarm setpoints.

Page

of

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY AIR QUALITY DIVISION

EFFECTIVE DATE: October 22, 2019

ISSUED TO

MPLX Terminals LLC - Niles Terminal

State Registration Number (SRN): B9073

LOCATED AT

2216 South Third Street, Niles, Berrien County, Michigan 49120

RENEWABLE OPERATING PERMIT

Permit Number: MI-ROP-B9073-2019

Expiration Date: October 22, 2024

Administratively Complete ROP Renewal Application Due Between April 22, 2023 and April 22, 2024

This Renewable Operating Permit (ROP) is issued in accordance with and subject to Section 5506(3) of Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451). Pursuant to Rule 210(1) of the administrative rules promulgated under Act 451, this ROP constitutes the permittee's authority to operate the stationary source identified above in accordance with the general conditions, special conditions and attachments contained herein. Operation of the stationary source and all emission units listed in the permit are subject to all applicable future or amended rules and regulations pursuant to Act 451 and the federal Clean Air Act.

SOURCE-WIDE PERMIT TO INSTALL

Permit Number: MI-PTI-B9073-2019

This Permit to Install (PTI) is issued in accordance with and subject to Section 5505(1) of Act 451. Pursuant to Rule 214a of the administrative rules promulgated under Act 451, the terms and conditions herein, identified by the underlying applicable requirement citation of Rule 201(1)(a), constitute a federally enforceable PTI. The PTI terms and conditions do not expire and remain in effect unless the criteria of Rule 201(6) are met. Operation of all emission units identified in the PTI is subject to all applicable future or amended rules and regulations pursuant to Act 451 and the federal Clean Air Act.

Michigan Department of Environment, Great Lakes, and Energy

Rex Lane, Kalamazoo District Supervisor

(Rev. 02/04/19)

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AUTHORITY AND ENFORCEABILITY

For the purpose of this permit, the **permittee** is defined as any person who owns or operates an emission unit at a stationary source for which this permit has been issued. The **department** is defined in Rule 104(d) as the Director of the Michigan Department of Environment, Great Lakes, and Energy (EGLE) or his or her designee.

The permittee shall comply with all specific details in the permit terms and conditions and the cited underlying applicable requirements. All terms and conditions in this ROP are both federally enforceable and state enforceable unless otherwise footnoted. Certain terms and conditions are applicable to most stationary sources for which an ROP has been issued. These general conditions are included in Part A of this ROP. Other terms and conditions may apply to a specific emission unit, several emission units which are represented as a flexible group, or the entire stationary source which is represented as a Source-Wide group. Special conditions are identified in Parts B, C, D and/or the appendices.

In accordance with Rule 213(2)(a), all underlying applicable requirements are identified for each ROP term or condition. All terms and conditions that are included in a PTI are streamlined, subsumed and/or is state-only enforceable will be noted as such.

In accordance with Section 5507 of Act 451, the permittee has included in the ROP application a compliance certification, a schedule of compliance, and a compliance plan. For applicable requirements with which the source is in compliance, the source will continue to comply with these requirements. For applicable requirements with which the source is not in compliance, the source will comply with the detailed schedule of compliance requirements that are incorporated as an appendix in this ROP. Furthermore, for any applicable requirements effective after the date of issuance of this ROP, the stationary source will meet the requirements on a timely basis, unless the underlying applicable requirement requires a more detailed schedule of compliance.

Issuance of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.

A. GENERAL CONDITIONS

Permit Enforceability

- All conditions in this permit are both federally enforceable and state enforceable unless otherwise noted. (R 336.1213(5))
- Those conditions that are hereby incorporated in a state-only enforceable Source-Wide PTI pursuant to Rule 201(2)(d) are designated by footnote one. (R 336.1213(5)(a), R 336.1214a(5))
- Those conditions that are hereby incorporated in a federally enforceable Source-Wide PTI pursuant to Rule 201(2)(c) are designated by footnote two. (R 336.1213(5)(b), R 336.1214a(3))

General Provisions

- The permittee shall comply with all conditions of this ROP. Any ROP noncompliance constitutes a violation of Act 451, and is grounds for enforcement action, for ROP revocation or revision, or for denial of the renewal of the ROP. All terms and conditions of this ROP that are designated as federally enforceable are enforceable by the Administrator of the United States Environmental Protection Agency (USEPA) and by citizens under the provisions of the federal Clean Air Act (CAA). Any terms and conditions based on applicable requirements which are designated as "state-only" are not enforceable by the USEPA or citizens pursuant to the CAA. (R 336.1213(1)(a))
- 2. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this ROP. (R 336.1213(1)(b))
- 3. This ROP may be modified, revised, or revoked for cause. The filing of a request by the permittee for a permit modification, revision, or termination, or a notification of planned changes or anticipated noncompliance does not stay any ROP term or condition. This does not supersede or affect the ability of the permittee to make changes, at the permittee's own risk, pursuant to Rule 215 and Rule 216. (R 336.1213(1)(c))
- 4. The permittee shall allow the department, or an authorized representative of the department, upon presentation of credentials and other documents as may be required by law and upon stating the authority for and purpose of the investigation, to perform any of the following activities: (R 336.1213(1)(d))
 - a. Enter, at reasonable times, a stationary source or other premises where emissions-related activity is conducted or where records must be kept under the conditions of the ROP.
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the ROP.
 - c. Inspect, at reasonable times, any of the following:
 - i. Any stationary source.
 - ii. Any emission unit.
 - iii. Any equipment, including monitoring and air pollution control equipment.
 - iv. Any work practices or operations regulated or required under the ROP.
 - d. As authorized by Section 5526 of Act 451, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the ROP or applicable requirements.
- 5. The permittee shall furnish to the department, within a reasonable time, any information the department may request, in writing, to determine whether cause exists for modifying, revising, or revoking the ROP or to determine compliance with this ROP. Upon request, the permittee shall also furnish to the department copies of any records that are required to be kept as a term or condition of this ROP. For information which is claimed by the permittee to be confidential, consistent with the requirements of the 1976 PA 442, MCL §15.231 et seq., and known as the Freedom of Information Act, the person may also be required to furnish the records directly to the USEPA together with a claim of confidentiality. (R 336.1213(1)(e))

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- 6. A challenge by any person, the Administrator of the USEPA, or the department to a particular condition or a part of this ROP shall not set aside, delay, stay, or in any way affect the applicability or enforceability of any other condition or part of this ROP. (R 336.1213(1)(f))
- 7. The permittee shall pay fees consistent with the fee schedule and requirements pursuant to Section 5522 of Act 451. (R 336.1213(1)(g))
- 8. This ROP does not convey any property rights or any exclusive privilege. (R 336.1213(1)(h))

Equipment & Design

- 9. Any collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2).² (R 336.1370)
- 10. Any air cleaning device shall be installed, maintained, and operated in a satisfactory manner and in accordance with the Michigan Air Pollution Control rules and existing law. (R 336.1910)

Emission Limits

- 11. Unless otherwise specified in this ROP, the permittee shall comply with Rule 301, which states, in part, "Except as provided in Subrules 2, 3, and 4 of this rule, a person shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of a density greater than the most stringent of the following:"² (R 336.1301(1))
 - a. A 6-minute average of 20% opacity, except for one 6-minute average per hour of not more than 27% opacity.
 - b. A limit specified by an applicable federal new source performance standard.

The grading of visible emissions shall be determined in accordance with Rule 303.

- 12. The permittee shall not cause or permit the emission of an air contaminant or water vapor in quantities that cause, alone or in reaction with other air contaminants, either of the following:
 - a. Injurious effects to human health or safety, animal life, plant life of significant economic value, or property.¹ (R 336.1901(a))
 - b. Unreasonable interference with the comfortable enjoyment of life and property.¹ (R 336.1901(b))

Testing/Sampling

- 13. The department may require the owner or operator of any source of an air contaminant to conduct acceptable performance tests, at the owner's or operator's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001(1).² (R 336.2001)
- 14. Any required performance testing shall be conducted in accordance with Rule 1001(2), Rule 1001(3) and Rule 1003. (R 336.2001(2), R 336.2001(3), R 336.2003(1))
- 15. Any required test results shall be submitted to the Air Quality Division (AQD) in the format prescribed by the applicable reference test method within 60 days following the last date of the test. (R 336.2001(5))

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Monitoring/Recordkeeping

- 16. Records of any periodic emission or parametric monitoring required in this ROP shall include the following information specified in Rule 213(3)(b)(i), where appropriate. (R 336.1213(3)(b))
 - a. The date, location, time, and method of sampling or measurements.
 - b. The dates the analyses of the samples were performed.
 - c. The company or entity that performed the analyses of the samples.
 - d. The analytical techniques or methods used.
 - e. The results of the analyses.
 - f. The related process operating conditions or parameters that existed at the time of sampling or measurement.
- 17. All required monitoring data, support information and all reports, including reports of all instances of deviation from permit requirements, shall be kept and furnished to the department upon request for a period of not less than 5 years from the date of the monitoring sample, measurement, report or application. Support information includes all calibration and maintenance records and all original strip-chart recordings, or other original data records, for continuous monitoring instrumentation and copies of all reports required by the ROP. (R 336.1213(1)(e), R 336.1213(3)(b)(ii))

Certification & Reporting

- 18. Except for the alternate certification schedule provided in Rule 213(3)(c)(iii)(B), any document required to be submitted to the department as a term or condition of this ROP shall contain an original certification by a Responsible Official which state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. (R 336.1213(3)(c))
- 19. A Responsible Official shall certify to the appropriate AQD District Office and to the USEPA that the stationary source is and has been in compliance with all terms and conditions contained in the ROP except for deviations that have been or are being reported to the appropriate AQD District Office pursuant to Rule 213(3)(c). This certification shall include all the information specified in Rule 213(4)(c)(i) through (v) and shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the certification are true, accurate, and complete. The USEPA address is: USEPA, Air Compliance Data Michigan, Air and Radiation Division, 77 West Jackson Boulevard, Chicago, Illinois 60604-3507. (R 336.1213(4)(c))
- 20. The certification of compliance shall be submitted annually for the term of this ROP as detailed in the special conditions, or more frequently if specified in an applicable requirement or in this ROP. (R 336.1213(4)(c))
- The permittee shall promptly report any deviations from ROP requirements and certify the reports. The prompt reporting of deviations from ROP requirements is defined in Rule 213(3)(c)(ii) as follows, unless otherwise described in this ROP. (R 336.1213(3)(c))
 - a. For deviations that exceed the emissions allowed under the ROP, prompt reporting means reporting consistent with the requirements of Rule 912 as detailed in Condition 25. All reports submitted pursuant to this paragraph shall be promptly certified as specified in Rule 213(3)(c)(iii).
 - b. For deviations which exceed the emissions allowed under the ROP and which are not reported pursuant to Rule 912 due to the duration of the deviation, prompt reporting means the reporting of all deviations in the semiannual reports required by Rule 213(3)(c)(i). The report shall describe reasons for each deviation and the actions taken to minimize or correct each deviation.
 - c. For deviations that do not exceed the emissions allowed under the ROP, prompt reporting means the reporting of all deviations in the semiannual reports required by Rule 213(3)(c)(i). The report shall describe the reasons for each deviation and the actions taken to minimize or correct each deviation.

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- 22. For reports required pursuant to Rule 213(3)(c)(ii), prompt certification of the reports is described in Rule 213(3)(c)(iii) as either of the following: **(R 336.1213(3)(c))**
 - a. Submitting a certification by a Responsible Official with each report which states that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
 - b. Submitting, within 30 days following the end of a calendar month during which one or more prompt reports of deviations from the emissions allowed under the ROP were submitted to the department pursuant to Rule 213(3)(c)(ii), a certification by a Responsible Official which states that; "based on information and belief formed after reasonable inquiry, the statements and information contained in each of the reports submitted during the previous month were true, accurate, and complete." The certification shall include a listing of the reports that are being certified. Any report submitted pursuant to Rule 213(3)(c)(ii) that will be certified on a monthly basis pursuant to this paragraph shall include a statement that certification of the report will be provided within 30 days following the end of the calendar month.
- 23. Semiannually for the term of the ROP as detailed in the special conditions, or more frequently if specified, the permittee shall submit certified reports of any required monitoring to the appropriate AQD District Office. All instances of deviations from ROP requirements during the reporting period shall be clearly identified in the reports. (R 336.1213(3)(c)(i))
- 24. On an annual basis, the permittee shall report the actual emissions, or the information necessary to determine the actual emissions, of each regulated air pollutant as defined in Rule 212(6) for each emission unit utilizing the emissions inventory forms provided by the department. (R 336.1212(6))
- 25. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the appropriate AQD District Office. The notice shall be provided not later than two business days after the start-up, shutdown, or discovery of the abnormal conditions or malfunction. Notice shall be by any reasonable means, including electronic, telephonic, or oral communication. Written reports, if required under Rule 912, must be submitted to the appropriate AQD District Supervisor within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal conditions or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5) and shall be certified by a Responsible Official in a manner consistent with the CAA.² (R 336.1912)

Permit Shield

- 26. Compliance with the conditions of the ROP shall be considered compliance with any applicable requirements as of the date of ROP issuance if either of the following provisions is satisfied. (R 336.1213(6)(a)(i), R 336.1213(6)(a)(ii))
 - a. The applicable requirements are included and are specifically identified in the ROP.
 - b. The permit includes a determination or concise summary of the determination by the department that other specifically identified requirements are not applicable to the stationary source.

Any requirements identified in Part E of this ROP have been identified as non-applicable to this ROP and are included in the permit shield.

- 27. Nothing in this ROP shall alter or affect any of the following:
 - The provisions of Section 303 of the CAA, emergency orders, including the authority of the USEPA under Section 303 of the CAA. (R 336.1213(6)(b)(i))
 - b. The liability of the owner or operator of this source for any violation of applicable requirements prior to or at the time of this ROP issuance. (R 336.1213(6)(b)(ii))
 - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the CAA. (R 336.1213(6)(b)(iii))

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- d. The ability of the USEPA to obtain information from a source pursuant to Section 114 of the CAA. (R 336.1213(6)(b)(iv))
- 28. The permit shield shall not apply to provisions incorporated into this ROP through procedures for any of the following:
 - a. Operational flexibility changes made pursuant to Rule 215. (R 336.1215(5))
 - b. Administrative Amendments made pursuant to Rule 216(1)(a)(i)-(iv). (R 336.1216(1)(b)(iii))
 - c. Administrative Amendments made pursuant to Rule 216(1)(a)(v) until the amendment has been approved by the department. (R 336.1216(1)(c)(iii))
 - d. Minor Permit Modifications made pursuant to Rule 216(2). (R 336.1216(2)(f))
 - e. State-Only Modifications made pursuant to Rule 216(4) until the changes have been approved by the department. (R 336.1216(4)(e))
- 29. Expiration of this ROP results in the loss of the permit shield. If a timely and administratively complete application for renewal is submitted not more than 18 months, but not less than 6 months, before the expiration date of the ROP, but the department fails to take final action before the end of the ROP term, the existing ROP does not expire until the renewal is issued or denied, and the permit shield shall extend beyond the original ROP term until the department takes final action. (R 336.1217(1)(c), R 336.1217(1)(a))

Revisions

- 30. For changes to any process or process equipment covered by this ROP that do not require a revision of the ROP pursuant to Rule 216, the permittee must comply with Rule 215. (R 336.1215, R 336.1216)
- 31. A change in ownership or operational control of a stationary source covered by this ROP shall be made pursuant to Rule 216(1). (R 336.1219(2))
- 32. For revisions to this ROP, an administratively complete application shall be considered timely if it is received by the department in accordance with the time frames specified in Rule 216. (R 336.1210(10))
- 33. Pursuant to Rule 216(1)(b)(iii), Rule 216(2)(d) and Rule 216(4)(d), after a change has been made, and until the department takes final action, the permittee shall comply with both the applicable requirements governing the change and the ROP terms and conditions proposed in the application for the modification. During this time period, the permittee may choose to not comply with the existing ROP terms and conditions proposed in the application seeks to change. However, if the permittee fails to comply with the ROP terms and conditions proposed in the application during this time period, the terms and conditions in the ROP are enforceable. (R 336.1216(1)(c)(iii), R 336.1216(2)(d), R 336.1216(4)(d))

Reopenings

- 34. A ROP shall be reopened by the department prior to the expiration date and revised by the department under any of the following circumstances:
 - a. If additional requirements become applicable to this stationary source with three or more years remaining in the term of the ROP, but not if the effective date of the new applicable requirement is later than the ROP expiration date. (R 336.1217(2)(a)(i))
 - b. If additional requirements pursuant to Title IV of the CAA become applicable to this stationary source. (R 336.1217(2)(a)(ii))
 - c. If the department determines that the ROP contains a material mistake, information required by any applicable requirement was omitted, or inaccurate statements were made in establishing emission limits or the terms or conditions of the ROP. (R 336.1217(2)(a)(iii))
 - d. If the department determines that the ROP must be revised to ensure compliance with the applicable requirements. (R 336.1217(2)(a)(iv))

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Renewals

35. For renewal of this ROP, an administratively complete application shall be considered timely if it is received by the department not more than 18 months, but not less than 6 months, before the expiration date of the ROP. (R 336.1210(9))

Stratospheric Ozone Protection

- 36. If the permittee is subject to Title 40 of the Code of Federal Regulations (CFR), Part 82 and services, maintains, or repairs appliances except for motor vehicle air conditioners (MVAC), or disposes of appliances containing refrigerant, including MVAC and small appliances, or if the permittee is a refrigerant reclaimer, appliance owner or a manufacturer of appliances or recycling and recovery equipment, the permittee shall comply with all applicable standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F.
- 37. If the permittee is subject to 40 CFR Part 82 and performs a service on motor (fleet) vehicles when this service involves refrigerant in the MVAC, the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed by the original equipment manufacturer. The term MVAC as used in Subpart B does not include the air-tight sealed refrigeration system used for refrigerated cargo or an air conditioning system on passenger buses using Hydrochlorofluorocarbon-22 refrigerant.

Risk Management Plan

- 38. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall register and submit to the USEPA the required data related to the risk management plan for reducing the probability of accidental releases of any regulated substances listed pursuant to Section 112(r)(3) of the CAA as amended in 40 CFR 68.130. The list of substances, threshold quantities, and accident prevention regulations promulgated under 40 CFR Part 68, do not limit in any way the general duty provisions under Section 112(r)(1).
- 39. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall comply with the requirements of 40 CFR Part 68, no later than the latest of the following dates as provided in 40 CFR 68.10(a):
 - a. June 21, 1999
 - b. Three years after the date on which a regulated substance is first listed under 40 CFR 68.130, or
 - c. The date on which a regulated substance is first present above a threshold quantity in a process.
- 40. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall submit any additional relevant information requested by any regulatory agency necessary to ensure compliance with the requirements of 40 CFR Part 68.
- 41. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall annually certify compliance with all applicable requirements of Section 112(r) as detailed in Rule 213(4)(c)). (40 CFR Part 68)

Emission Trading

42. Emission averaging and emission reduction credit trading are allowed pursuant to any applicable interstate or regional emission trading program that has been approved by the Administrator of the USEPA as a part of Michigan's State Implementation Plan. Such activities must comply with Rule 215 and Rule 216. (R 336.1213(12))

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Permit to Install (PTI)

- 43. The process or process equipment included in this permit shall not be reconstructed, relocated, or modified unless a PTI authorizing such action is issued by the department, except to the extent such action is exempt from the PTI requirements by any applicable rule.² (R 336.1201(1))
- 44. The department may, after notice and opportunity for a hearing, revoke PTI terms or conditions if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of the PTI or is violating the department's rules or the CAA.² (**R 336.1201(8)**, Section 5510 of Act 451)
- 45. The terms and conditions of a PTI shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by the PTI. If a new owner or operator submits a written request to the department pursuant to Rule 219 and the department approves the request, this PTI will be amended to reflect the change of ownership or operational control. The request must include all of the information required by Subrules (1)(a), (b) and (c) of Rule 219. The written request shall be sent to the appropriate AQD District Supervisor, MDEQ.² (R 336.1219)
- 46. If the installation, reconstruction, relocation, or modification of the equipment for which PTI terms and conditions have been approved has not commenced within 18 months of the original PTI issuance date, or has been interrupted for 18 months, the applicable terms and conditions from that PTI, as incorporated into the ROP, shall become void unless otherwise authorized by the department. Furthermore, the person to whom that PTI was issued, or the designated authorized agent, shall notify the department via the Supervisor, Permit Section, EGLE, AQD, P. O. Box 30260, Lansing, Michigan 48909, if it is decided not to pursue the installation, reconstruction, relocation, or modification of the equipment allowed by the terms and conditions from that PTI.² (R 336.1201(4))

Footnotes:

¹This condition is state-only enforceable and was established pursuant to Rule 201(1)(b). ²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

B. SOURCE-WIDE CONDITIONS

Part B outlines the Source-Wide Terms and Conditions that apply to this stationary source. The permittee is subject to these special conditions for the stationary source in addition to the general conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply to this source, NA (not applicable) has been used in the table. If there are no Source-Wide Conditions, this section will be left blank.

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SOURCE-WIDE CONDITIONS

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

	Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1.	Total Hazardous Air Pollutants (HAPs)	24.9 tons	12 month rolling time period as determined at the end of each calendar month	Sourcewide	SC VI.1	R 336.1213(2)
2.	Single HAP	9.9 tons	12 month rolling time period as determined at the end of each calendar month	Sourcewide	SC VI.1	R 336.1213(2)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

1. The permittee shall calculate and record the stationary source-wide (North and South Terminals combined) emissions rates, in tons, for each single HAP and total combined HAPs for each calendar month and each 12-month rolling time period, as determined at the end of each calendar month. (**R 336.1213(3)**)

VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
- Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
- Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))

See Appendix 8

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VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes: ¹This condition is state-only enforceable and was established pursuant to Rule 201(1)(b). ²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

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C. EMISSION UNIT SPECIAL CONDITIONS

Part C outlines terms and conditions that are specific to individual emission units listed in the Emission Unit Summary Table. The permittee is subject to the special conditions for each emission unit in addition to the General Conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply, NA (not applicable) has been used in the table. If there are no conditions specific to individual emission units, this section will be left blank.

EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID	
EURACK-SOUTH	Loading rack for South Terminal with carbon absorption system for primary control device and a portable combustor unit as the backup control device.	01-01-61/ 12-31-82/ 10-24-00	FGLOADRACKS FGMACT-BBBBBB	
EURACK-NORTH	Leading rack for North Terminal with carbon absorption system for primary control device and a portable combustor unit as the backup control device.	01-01-71/ 12-31-82	FGLOADRACKS FGMACT-BBBBBB	Commented [WWT1]: EURACK-NORTH has been decommissioned and does not need to be included in the permit
EUVCU-PORT	Portable vapor combustor (either a RANE or John Zink) used as the backup control system for the loading racks.	06-01-91/ 06-01-00	FGLOADRACKS FGMACT-BBBBBB	
EUTK20-13	17,677 barrel (742,434 gal) capacity above ground cone roof storage tank for fuel oil at North Terminal.	01-01-71/NA	FGTANKFARM	
EUTK25-3	<u>19,965-20,931</u> barrel (<u>838,539,879,102</u> gal) capacity above ground storage tank, changed from an external to internal floating roof (geodome) in 2000 at South Terminal.	01-01-71/ 10-03-00	FGTANKFARM FGFRTANKS FGMACT-BBBBBB	
EUTK31-11	28,406 28,716 barrel (1,193,052 1,206,072 gal) capacity above ground fixed roof storage tank with internal floating roof at North Terminal.	01-01-71/NA	FGTANKFARM FGFRTANKS FGMACT-BBBBBB	Commented [WWT2]: All tank volume updates are NOT due to physical changes. These volumes more accurately represent our internal documentation and may be due to alarm set point changes.
EUTK35-4	<u>30,312</u> <u>29,255</u> barrel (<u>1,273,104</u> <u>1,228,710</u> gal) capacity above ground cone roof storage tank for jet kerosene and fuel oil at South Terminal.	01-01-61/NA	FGTANKFARM	
EUTK55-2	48,653 46,370 barrel (2,043,426 1,947,540 gal) capacity above ground fixed roof storage tank with internal floating roof at South Terminal.	01-01-61/NA	FGTANKFARM FGFRTANKS FGMACT-BBBBBB	
EUTK55-5	48,540 47,124 barrel (2,038,680 1,979,208 gal) capacity above ground storage tank, changed from an external to internal floating roof (geodome) in 2003 at South Terminal.	01-01-61/ 08-01-03	FGTANKFARM FGFRTANKS FGMACT-BBBBBB	
EUTK55-6	51,176 45,640 barrel (2,149,392 1,916,880 gal) capacity above ground fixed roof storage tank with suspended internal floating roof at South Terminal.	01-01-71/ 11-11-13	FGTANKFARM FGFRTANKS FGMACT-BBBBBB	

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	PTI No: MI-PTI-B9073-2019				
	Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID	
	EUTK55-7	48,253 44,020 barrel (2,026,626 1,848,840 gal) capacity above ground fixed roof storage tank with internal floating roof at South Terminal.	01-01-66/NA	FGTANKFARM FGFRTANKS FGMACT-BBBBBB	
	EUTK64-9	54,824 56,146 barrel (2,302,608 2,358,132 gal) capacity above ground fixed roof storage tank with internal floating roof at North Terminal.	01-01-71/NA	FGTANKFARM FGFRTANKS FGMACT-BBBBBB	
	EUTK67-12	61,188 59,270 barrel (2,569,896 2,489,340 gal) capacity above ground cone roof storage tank changed to an internal floating roof in 2016 at North Terminal.	01-01-71/ 09-01-16	FGTANKFARM FGMACT-BBBBBB	
	EUTK80-8	79.906 72.390 barrel (3.356.052 3.040.380 gal) capacity above ground cone roof storage tank at South Terminal.	01-01-77/NA	FGTANKFARM FGFRTANKS FGMACT-BBBBBB	
	EUTK100-10	<u>93,826</u> <u>88,858</u> barrel (<u>3,940,692</u> <u>3,732,036</u> gal) capacity above ground fixed roof storage tank with internal floating roof at North Terminal.	01-01-71/NA	FGTANKFARM FGFRTANKS FGMACT-BBBBBB	
	EUTKT-1	<u>1,791</u> 4,198 barrel (<u>75,222</u> 50,316 gal) capacity above ground fixed roof transmix tank with internal floating roof at South Terminal.	01-01-61/NA	FGTANKFARM FGFRTANKS	

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EUTK80-8 EMISSION UNIT CONDITIONS

DESCRIPTION

72,390-79,906barrel (3,356,052,3,040,380 gal) capacity above ground cone roof storage tank at South Terminal.

Flexible Group ID: FGTANKFARM, FGFRTANKS, FGMACT-BBBBBB

POLLUTION CONTROL EQUIPMENT

Fixed cone roof

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

- If the true vapor pressure of the petroleum liquid being stored is equal to or greater than 1.5 psia, but not greater than 11.1 psia, EUTK80-8 shall be equipped with an internal floating roof, a vapor recovery system or their equivalent. (40 CFR 60.112(a)(1))
- 2. If the true vapor pressure of the petroleum liquid being stored is greater than 11.1 psia, EUTK80-8 shall be equipped with a vapor recovery system or its equivalent. (40 CFR 60.112(a)(2))

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

1. The permittee shall maintain a record of each petroleum liquid stored, the period stored, and the maximum true vapor pressure of that liquid during the respective storage period. (40 CFR 60.113(a))

VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
- Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
- Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))

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See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. EUTK80-8 shall comply with all applicable provisions set forth in 40 CFR Part 60 Subparts A and K. (R 336.1213(3))

<u>Footnotes:</u> ¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b). ² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

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D. FLEXIBLE GROUP SPECIAL CONDITIONS

Part D outlines the terms and conditions that apply to more than one emission unit. The permittee is subject to the special conditions for each flexible group in addition to the General Conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply, NA (not applicable) has been used in the table. If there are no special conditions that apply to more than one emission unit, this section will be left blank.

FLEXIBLE GROUP SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

1

I

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGLOADRACKS	Loading racks at the North and South Terminals, and the portable combustor that is the backup control.	EURACK-SOUTH EURACK-NORTH EUVCU-PORT
FGTANKFARM	All tanks at the Facility that have applicable requirements.	EUTK20-13 EUTK20-13 EUTK25-3 EUTK35-4 EUTK35-4 EUTK55-5 EUTK55-6 EUTK55-7 EUTK64-9 EUTK67-12 EUTK60-8 EUTK100-10 EUTKT-1
FGFRTANKS	All tanks at the Facility that have a fixed roof and are subject to R 336.1604.	EUTK25-3 EUTK31-11 EUTK55-2 EUTK55-5 EUTK55-6 EUTK55-7 EUTK64-9 EUTK60-8 EUTK100-10 EUTKT-1
FGMACT-BBBBBB	All equipment that is subject to 40 CFR, Part 63, Subpart BBBBBB.	EURACK-SOUTH EURACK-NORTH EUVCU-PORT EUTK25-3 EUTK31-11 EUTK55-2 EUTK55-5 EUTK55-5 EUTK55-6 EUTK55-7 EUTK64-9 EUTK67-12 EUTK80-8 EUTK100-10

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FGLOADRACKS FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Loading racks at the North and South Terminals, and the portable combustor that is the backup control.

Emission Unit: EURACK-SOUTH, EURACK-NORTH, EUVCU-PORT

POLLUTION CONTROL EQUIPMENT

Primary vapor control system (VCS) - carbon adsorption. Secondary VCS - John Zink or RANE portable vapor combustor (EUVCU-PORT).

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	35 mg*	per liter of organic compounds loaded, averaged over six hours during which at least 300,000 liters of gasoline are loaded.	EURACK-SOUTH With primary VCS in use	SC III.1.a through g, SC V.3, and SC VI.1	R 336.1213(2) 40 CFR 63.11088(a)
2. VOC	80 mg^{2**}	per liter of organic compounds loaded, averaged over six hours during which at least 300,000 liters of gasoline are loaded.	EURACK-NORTH With primary VCS in use	SC-III.1.a through g, SC V.2, and SC VI.1	R 336.1706(2) 40 CFR 63.11088(a)
3. VOC	35 mg²*	per liter of organic compounds loaded, averaged over six hours during which at least 300,000 liters of gasoline are loaded.	,		R 336.1702(b) 40 CFR 63.11088(a)
4. Opacity	0%2	6 minutes	EUVCU-PORT	SC VI.5	40CFR 64.6(c)(1)), 40 CFR Part 63 Subpart BBBBBB

Commented [WWT3]: Limit no longer applicable - request for removal of EURACK-NORTH

* Equivalent to 0.3 pounds per 1,000 gallons of organic compounds loaded. ** Equivalent to 0.7 pounds per 1,000 gallons of organic compounds loaded.

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. CONTROL SYSTEM:

To ensure proper operation of the Primary VCS and compliance with R 336.1702(b), the average maximum a. vacuum level of each regeneration cycle shall be equal to or greater than 26 inches of Hg over a 6-hour period during active gasoline loading and the carbon beds shall be regenerated at least once every 15

minutes, except for periods of maintenance. (R 336.1213(2), 40 CFR 64.6(c)(3), 40 CFR 64.7(a), 40 CFR 64.7(c)(1))

- b. If proper regeneration of a carbon bed does not occur at least once every 15 minutes during active loading, except for periods of maintenance, and if the average maximum vacuum specified in condition III.1.a above is not achieved, the permittee shall immediately cease loading of gasoline at that rack until proper regeneration of the carbon bed is restored or until the Secondary VCS is brought on-line. (R 336.1213(2))
- c. The permittee shall not load gasoline at the loading racks unless either the Primary or Secondary VCSs are installed and operating properly.² (R 336.1702(a), R 336.1910, 40 CFR 63.11088(a))
- d. The permittee shall operate EUVCU-PORT as recommended by the manufacturer. (R 336.1213(2))
- e. The permittee shall only use propane or natural gas for maintaining a flame in EUVCU-PORT. (R 336.1213(2))
- f. The permittee shall maintain and operate the pressure monitoring system and associated equipment according to the manufacturer's recommendations. (40 CFR 64.7(b))
- g. As specified in R 336.1627(9), the Primary VCS shall be operated to prevent gauge pressure in the delivery vessel from exceeding 0.6 pounds per square inch and to prevent vacuum from exceeding 0.2 pounds per square inch gauge. (R 336.1702(d))

2. GASOLINE TANK TRUCK LOADING/UNLOADING:

- As specified in R 336.1627, the permittee shall not operate the loading racks unless the following provisions are met: (R 336.1702(d))
 - As specified in R 336.1627(5), there shall be no visible liquid leaks from the gasoline tank truck or vapor collection system, except when the disconnection of dry breaks in liquid lines produces a few drops of liquid. (R 336.1702(d))
 - ii. As specified in R 336.1627(7), there shall be no gas detector reading greater than or equal to 100% of the lower explosive limit at a distance of one inch from the location of the potential leak in the vapor recovery unit. Leaks shall be detected by a combustible gas detector using the test procedures described in R 336.2005, as described in V.1. (R 336.1702(d), 40 CFR 64.6(c)(2))
 - As specified in R 336.1627(8), there shall be no visible leaks, except from the disconnection of bottom loading dry breaks and from raising top loading vapor heads, where a few drops are permitted. (R 336.1702(d))
- b. The permittee shall act to ensure that the terminal loading rack and the tank truck vapor control systems are connected during loading of a gasoline tank truck at the affected facility. (R 336.1213(2))

IV. DESIGN/EQUIPMENT PARAMETER(S)

- 1. Carbon adsorption shall be the Primary VCS for the loading racks. (R 336.1702(b))
- The permittee shall only use EUVCU-PORT to control emissions from the loading racks during maintenance or malfunction of the primary VCS. This includes maintenance or malfunction of the receiving tank for gasoline recovered by the primary VCS.² (R 336.1201(3))
- 3. The loading racks shall utilize submerged fill pipes for transferring liquids from stationary vessels into delivery vessels. (R 336.1706(1))
- Each delivery vessel loaded with organic compounds having a true vapor pressure of more than 1.5 psia, other than crude oil or condensate oil, shall be equipped, maintained, or controlled with all of the following: (R 336.1706(3))
 - a. An interlocking system or procedure to ensure that the vapor-tight collection line is connected before any organic compound can be loaded. (R 336.1706(3)(a))
 - A device to ensure that the vapor-tight collection line shall close upon disconnection so to prevent the release of organic vapor. (R 336.1706(3)(b))
 - c. A device to accomplish complete drainage before the loading device is disconnected or a device to prevent liquid drainage from the loading device when not in use. (R 336.1706(3)(c))
 - d. Pressure-vacuum relief valves that are vapor-tight and set to prevent the emission of displaced organic vapor during the loading of the delivery vessel, except under emergency conditions. (R 336.1706(3)(d))

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e. Hatch openings that are kept closed and vapor-tight during the loading of the delivery vessel. (R 336.1706(3)(e))

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- The permittee shall test for vapor leaks in the vapor control system as described in R 336.1627(6) using the methods described in R 336.2005 at least once each calendar quarter. The results of each leak test shall be maintained on file. (R 336.1213(3), 40 CFR 64.6(c)(1))
- If the permittee commences to load gasoline products again through EURACK-NORTH instead of just distillates, then the permittee shall conduct emissions testing on the Primary VCS at EURACK-NORTH for VOCs and control efficiency in accordance with 40 CFR Subpart XX using EPA Methods 2A, 21, and 25B within 6 months of that date: (R 336.1213(3))
 - c. The permittee shall submit a complete test protocol to the AQD for approval at least 30 days prior to the anticipated test date. (R 336.1213(3))
 - d. The permittee shall notify the District Supervisor or the Technical Programs Unit no less than 7 days prior to the anticipated test date. (R 336.12001(3))
 - e. The permittee shall submit a complete test report of the test results to the District Supervisor or the Technical Programs Unit within 60 days following the last date of the test. (R 336.12001(4))
- 3. The permittee shall conduct emissions testing on the Primary VCS at EURACK-SOUTH for VOCs and control efficiency in accordance with 40 CFR 60 Subpart XX using EPA Methods 2A, 21, and 25B. The test shall be performed once within the effective dates of the permit. (R 336.1213(3))
 - a. The permittee shall submit a complete test protocol to the AQD for approval at least 30 days prior to the anticipated test date. (R 336.1213(3))
 - b. The permittee shall notify the District Supervisor or the Compliance Support Unit no less than 7 days prior to the anticipated test date. (R 336.12001(3))
 - c. The permittee shall submit a complete test report of the test results to the District Supervisor or the Compliance Support Unit within 60 days following the last date of the test. (R 336.12001(4))

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- For each scheduled work day that the Primary VCS is in use the permittee shall monitor the carbon bed pressure using an electronic recording device (or equivalent data recording device approved by the District Supervisor) and record any deviations in static pressure or regeneration frequency. An excursion occurs when the maximum vacuum level of each regeneration cycle does not average a minimum of 26 inches of Hg over a 6-hour period during gasoline loading and/or unloading operations and the load rack is not immediately shutdown. (R 336.1213(3), 40 CFR 64.6(c)(1))
- The permittee shall keep a record consisting of the date, time, and duration of each malfunction of each Primary VCS or scheduled maintenance of each Primary VCS (or the receiving tank for gasoline recovered from the primary VCS), which results in Primary VCS downtime. (R 336.1213(3))
- 3. The permittee shall maintain a written record of the dates and hours of operation of EUVCU-PORT and on which loading rack the unit is used.² (R 336.1201(3))
- The permittee shall maintain a written record of all replacements, maintenance, repairs, and/or additions made to the VCSs. (R 336.1213(3))
- The permittee shall use a thermocouple or other device to continuously monitor for the presence of a pilot flame at all times that the Secondary VCS is in use. An excursion shall be defined as the absence of the pilot flame during gasoline loading and/or unloading operations and the load rack is not immediately shutdown. (40 CFR 64.6(c)(1), 40 CFR Part 63 Subpart BBBBBB))
- 6. A copy of the inspection and maintenance plan for the Primary VCS shall be kept on-site and made available to the AQD staff upon request. (R 336.1213(3))

- 7. Upon detecting an excursion or exceedance, the permittee shall restore operation of EU-RACK-SOUTH or EURACK-NORTH to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). (40 CFR 64.7(d))
- 8. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions (40 CFR 64.6(c)(3), 64.7(c))

VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
- Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
- Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))
- 4. The permittee shall submit any performance test reports, including any RATA Reports, to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. (R 336.1213(3)(c), R 336.2001(5))
- 5. The report required in VII.2 above shall include:
 - a. Summary information on the number, duration, and cause (including unknown cause, if applicable) of exceedances and excursions and the corrective actions taken;
 - b. Summary information on the number, duration, and cause (including unknown cause, if applicable) for monitor downtime incidents (other than for calibration checks);
 - c. A description of the actions taken to implement a Quality Improvement Plan (QIP) during the reporting period, if applicable. If a QIP has been completed the report shall include documentation that the plan has been implemented and reduced the likelihood of similar levels of excursions or exceedances occurring. (40 CFR 64.9)
- 6. The permittee shall submit a QIP for EURACK-NORTH or EURACK-SOUTH if an excursion occurs six times in a 6 month reporting period. An excursion is when the maximum vacuum level of each regeneration cycle does not average a minimum of 26 inches of Hg over a 6-hour period during gasoline loading and/or unloading operations and the load rack is not immediately shutdown. The permittee shall submit a QIP for EUVCU-PORT if an excursion occurs four times in a 6 month reporting period which is if the flame is not present during gasoline loading and/or unloading and the load rack is not immediately shutdown. (R 336.1213(3), 40 CFR 64.8(a))

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

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Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-VRU-SOUTH*	12	16.7	R 336.1702(a), R 336.1910
2. SV-VRU-NORTH*	6	13.8	R 336.1702(a), R 336.1910
3. SV-VCU-PORT (RANE)	72	13	R 336.1702(a), R 336.1910
4. SV-VCU-PORT (ZINK)	30	25	R 336.1702(a), R 336.1910

*Stacks SV-VRU-SOUTH and SV-VRU-NORTH vents horizontally.

IX. OTHER REQUIREMENT(S)

- 1. The permittee shall, at all times, maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment. (40 CFR 64.7(b))
- 2. If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the AQD and if necessary, submit a proposed modification of the CAM Plan to address the necessary monitoring changes. Such a modification may include but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters. (40 CFR 64.7(e))
- 3. The permittee shall comply with all applicable requirements of 40 CFR Part 64. (40 CFR 64.7(c)(3))
- 4. The permittee shall comply with all applicable provisions of R 336.1627 and R 336.1706.2 (R 336.1201(3))
- The permittee shall maintain written procedures for proper operation of the Primary and Secondary VCSs and the terminal loading racks. These written procedures shall be accessible at the terminal upon AQD request. (R 336.1706(4))
- The permittee shall certify that each gasoline tank truck utilized at the affected facility is equipped with vapor collection equipment that is compatible with the terminal's vapor control system and that each gasoline tank truck is certified as specified in R 336.1627(2). (R 336.1213(2))
- 7. As specified in R 336.1627(10), the department may require the owner or operator of any vapor collection system subject to the provisions of subrule (6) of this rule to test the system in accordance with R 336.2005. The tests shall be conducted within 60 days following receipt of written notification from the department. Notification of the exact time and location of the test shall be given to the department, in writing, not less than 7 days before the actual test date. Documentation of the test shall be submitted to the department within 60 days following the test shall be submitted to the department within 60 days following the last date of the test. If the time or location of the test changes for any reason, then the owner or operator shall notify the department as soon as practicable. (R 336.1702(d))
- 8. As specified in R 336.1627(11), the permittee shall certify that any delivery vessel or component of a vapor collection system that fails to meet any provisions of R 336.1627 shall not be operated until the necessary repairs have been made, the vessel or vapor recovery unit retested, and the test results have been submitted to the AQD. (R 336.1702(d))

Footnotes:

- ¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
- ² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

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FGTANKFARM FLEXIBLE GROUP CONDITIONS

DESCRIPTION

All tanks at the Facility that have applicable requirements.

Emission Units: EUTK20-13, EUTK25-3, EUTK31-11, EUTK35-4, EUTK55-2, EUTK55-5, EUTK55-6, EUTK55-7, EUTK64-9, EUTK67-12, EUTK80-8, EUTK100-10, EUTKT-1

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	53.11 tons ²	12 month rolling time period as determined at the end of each calendar month	FGTANKFARM	SC VI.2	R 336.1702(a)

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Gasoline	580 million gallons²	12 month rolling time period as determined at the end of each calendar month	FGTANKFARM	SC VI.4	R 336.1702(a)

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- 1. The permittee shall calculate and record the total VOC emission rate, in tons emitted, from FGTANKFARM for each calendar month. (R 336.1213(3))
- 2. The permittee shall calculate and record the 12-month rolling average VOC emissions rate, in tons emitted, from FGTANKFARM, as determined at the end of each calendar month. (R 336.1213(3))

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- 3. The permittee shall monitor and record the total gasoline throughput, in gallons, for the stationary source (South Terminal and North Terminal combined) for each calendar month. (R 336.1213(3))
- 4. The permittee shall monitor and record the 12-month rolling time period gasoline throughput, in gallons, for the stationary source (South Terminal and North Terminal combined), as determined at the end of each calendar month.² (R 336.1201(3))

VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
- Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall 2. be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
- 3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 63, Subpart BBBBBB, as they apply to FGTANKFARM.² (40 CFR Part 63, Subpart BBBBBB)

Footnotes: ¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b). ² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

FGFRTANKS FLEXIBLE GROUP CONDITIONS

DESCRIPTION

All tanks at the Facility that have a fixed roof and are subject to R 336.1604.

Emission Unit: EUTK25-3, EUTK31-11, EUTK55-2, EUTK55-5, EUTK55-6, EUTK55-7, EUTK64-9, EUTK80-8, EUTK100-10, EUTKT-1

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

- 1. The permittee shall not store any organic compound having a true vapor pressure of more than 1.5 psia, at actual storage conditions, in any storage tanks in FGFRTANKS unless the provisions of R 336.1604 are complied with.² (R 336.1702(d))
- As specified in R 336.1604(1), when storing any organic compound having a true vapor pressure of more than 1.5 psia but less than 11 psia, at actual storage conditions, in any storage tank in FGFRTANKS one of the following conditions must be met:
 - a. As specified in R 336.1604(1)(a) each subject vessel shall be capable of maintaining working pressures sufficient to prevent organic vapor or gas loss to the atmosphere at all times, except under emergency conditions.

OR

b. As specified in R 336.1604(1)(b), each subject vessel shall be equipped and maintained with a floating cover or roof which rests upon, and is supported by, the liquid being contained and has a closure seal or seals to reduce the space between the cover or roof edge and the vessel wall. The seal or any seal fabric shall have no visible holes, tears, or other nonfunctional openings.

OR

- c. As specified in R 336.1604(1)(c), each subject vessel shall be equipped and maintained with a vapor recovery system, or other control system approved by the AQD, which recovers not less than 90% by weight of the uncontrolled organic vapor that would otherwise be emitted into the atmosphere. (R 336.1702(d))
- 3. When storing any organic compound having a true vapor pressure of more than 1.5 psia but less than 11 psia, at actual storage conditions, all openings, except stub drains, shall be equipped with covers, lids, or seals that meet the following requirements:

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- a. As specified in R 336.1604(2)(a), the cover, lid, or seal is in the closed position at all times, except when in actual use. (R 336.1702(d))
- b. As specified in R 336.1604(2)(b), automatic bleeder vents are closed at all times, except when the roof is floated off, or landed on, the roof leg supports. (R 336.1702(d))
- c. As specified in R 336.1604(2)(c), rim vents, if provided, are set at the manufacturer's recommended setting or are set to open when the roof is being floated off the roof leg supports. (R 336.1702(d))

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- 1. The permittee shall maintain a written record of the true vapor pressure, at actual storage conditions, of each fuel, dye, additive, or other substance stored in each vessel. (R 336.1213(3))
- 2. When storing any organic compound having a true vapor pressure of more than 1.5 psia, but less than 11 psia, at actual storage conditions, the permittee shall perform a semiannual routine inspection of each vessel to ensure compliance with R 336.1604(1) and R 336.1604(2) as required by R 336.1702(d). The permittee shall keep a record of the results of this semiannual inspection. (R 336.1213(3))

VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
- Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
- Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. Pursuant to R 336.1702(d) the permittee shall comply with all applicable provisions of R 336.1604. (R 336.1213(2))

Footnotes:

¹This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

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FGBBBBBB FLEXIBLE GROUP CONDITIONS

DESCRIPTION

All equipment that is subject to 40 CFR, Part 63, Subpart BBBBBB.

Emission Units: EURACK-SOUTH, EURACK-NORTH, EUVCU-PORT, EUTK25-3, EUTK31-11, EUTK55-2, EUTK55-5, EUTK55-6, EUTK55-7, EUTK64-9, EUTK67-12, EUTK80-8, EUTK100-10

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Loading of liquid product into gasoline tank trucks shall be limited to vapor-tight gasoline tank trucks using the procedures specified in 40 CFR 60.502(e)-(j). (40 CFR 63.11088(a))

IV. DESIGN/EQUIPMENT PARAMETER(S)

- 1. No pressure-vacuum vent in the Primary VCS shall begin to open at a system pressure less than 4,500 pascals (18 inches of water). (40 CFR 63.11088(a))
- 2. Each gasoline storage tank shall meet the applicable emission limit and management practices specified in Table 1 of Subpart BBBBBB. (40 CFR 63.11087(a))

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- 1. The permittee shall perform a monthly leak inspection of all equipment in gasoline services. For this inspection, detection methods incorporating sight, sound, and smell are acceptable: (40 CFR 63.11089)
 - a. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak, except as provided in Condition V.1.b. (40 CFR 63.11089)
 - b. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reasons why the repair was not feasible and the date each repair was completed. (40 CFR 63.11089)
- 2. For the monthly leak inspection required under Condition VI.1, a log book shall be used and shall be signed by the permittee at the completion of each inspection. A section of the log book shall contain a list, summary

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description, or diagram(s) showing the location of all equipment in gasoline service at the facility. Each detection of a leak or vapor leak shall be recorded in the log book. (40 CFR 63.11089)

- 3. The permittee shall install, calibrate, certify, operate, and maintain, according to the manufacturer's specifications, a continuous monitoring system (CMS) while gasoline vapors are displaced to the VCS, as specified in 40 CFR 63.11092(b). (40 CFR 63.11092(b))
- The permittee shall keep records of the results of annual certification testing for each gasoline cargo tank loading at FGLOADRACKS, keeping the documentation specified in 40 CFR 63.11094(b), except as noted below: (40 CFR 63.11094(b))
 - a. As an alternative to keeping records at the terminal of each gasoline cargo tank test result, the permittee may either (40 CFR 63.11094(c)):
 - Make instantly available at the terminal an electronic copy of each record; or
 - ii. Have documentation demonstrating that the terminal operates an automation system that prevents gasoline cargo tanks that do not have valid cargo tank vapor tightness documentation from loading.
- 5. The permittee shall keep records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. (40 CFR 63.11094(g)(1))
- 6. The permittee shall keep records of actions taken during periods of malfunction to minimize emissions in accordance with Condition IX.1, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. (40 CFR 63.11094(g)(2))
- 7. The permittee shall comply with the applicable testing and monitoring requirements for each gasoline storage tank. (40 CFR 63.11087(c))
- 8. The permittee shall submit applicable notifications for each gasoline storage tank. (40 CFR 63.11087(d))
- 9. The permittee shall keep applicable records and submit applicable reports for each gasoline storage tank. (40 CFR 63.11087(e))
- Each gasoline storage tank subject to, and in compliance with, the control requirements of 40 CFR Part 60, Subpart Kb, will be deemed in compliance with 40 CFR 63.11087. For each storage tank in compliance with the applicable control requirements of 40 CFR Part 60, Subpart Kb, this determination must be included in the Notification of Compliance Status report required under 40 CFR 63.11093(b), (40 CFR 63.11087(f))

VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
- Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
- Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

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1. The permittee shall comply with all the applicable provisions of the National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63, Subparts A and BBBBBB (Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities). **(40 CFR 63 Subpart BBBBBB)**

- **<u>Footnotes</u>**: ¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b). ² This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

E. NON-APPLICABLE REQUIREMENTS

At the time of the ROP issuance, the AQD has determined that no non-applicable requirements have been identified for incorporation into the permit shield provision set forth in the General Conditions in Part A pursuant to Rule 213(6)(a)(ii).

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APPENDICES

	Common Acronyms	I	Pollutant / Measurement Abbreviations
AQD	Air Quality Division	acfm	Actual cubic feet per minute
BACT	Best Available Control Technology	BTU	British Thermal Unit
CAA	Clean Air Act	°C	Degrees Celsius
CAM	Compliance Assurance Monitoring	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	CO ₂ e	Carbon Dioxide Equivalent
CEMS	Continuous Emission Monitoring System	dscf	Dry standard cubic foot
CFR	Code of Federal Regulations	dscm	Dry standard cubic meter
СОМ	Continuous Opacity Monitoring	°F	Degrees Fahrenheit
Department/	Michigan Department of Environment,	gr	Grains
department	Great Lakes, and Energy	ĤAP	Hazardous Air Pollutant
EGLE	Michigan Department of Environment,	Hg	Mercury
	Great Lakes, and Energy	hr	Hour
EU	Emission Unit	HP	Horsepower
FG	Flexible Group	H ₂ S	Hydrogen Sulfide
GACS	Gallons of Applied Coating Solids	kW	Kilowatt
GC	General Condition	lb	Pound
GHGs	Greenhouse Gases	m	Meter
HVLP	High Volume Low Pressure*	mg	Milligram
ID	Identification	mm	Millimeter
IRSL	Initial Risk Screening Level	MM	Million
ITSL	Initial Threshold Screening Level	MW	Megawatts
LAER	Lowest Achievable Emission Rate	NMOC	Non-methane Organic Compounds
MACT	Maximum Achievable Control Technology	NOx	Oxides of Nitrogen
MAERS	Michigan Air Emissions Reporting System	ng	Nanogram
MAP	Malfunction Abatement Plan	PM	Particulate Matter
MSDS	Material Safety Data Sheet	PM10	Particulate Matter equal to or less than 10
NA	Not Applicable		microns in diameter
NAAQS	National Ambient Air Quality Standards	PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
NESHAP	National Emission Standard for Hazardous	pph	Pounds per hour
NSPS	Air Pollutants New Source Performance Standards	ppm	Parts per million
		ppmv	Parts per million by volume
NSR PS	New Source Review	ppmw %	Parts per million by weight Percent
PS PSD	Performance Specification		
PSD PTE	Prevention of Significant Deterioration Permanent Total Enclosure	psia psiq	Pounds per square inch absolute Pounds per square inch gauge
PTE	Permit to Install	scf	Standard cubic feet
RACT	Reasonable Available Control Technology	sec	Seconds
ROP	Renewable Operating Permit	SO ₂	Sulfur Dioxide
SC	Special Condition	TAC	Toxic Air Contaminant
SCR	Selective Catalytic Reduction	Temp	Temperature
SNCR	Selective Non-Catalytic Reduction	THC	Total Hydrocarbons
SRN	State Registration Number		,
SRN TEQ	Toxicity Equivalence Quotient	tpy	Tons per year Microgram
USEPA/EPA	United States Environmental Protection	μg	Microgram Micrometer or Micron
USEPA/EPA	Agency	µm VOC	Volatile Organic Compounds
	Ageney	VUU	

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

Appendix 2. Schedule of Compliance

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The permittee certified in the ROP application that this stationary source is in compliance with all applicable requirements and the permittee shall continue to comply with all terms and conditions of this ROP. A Schedule of Compliance is not required. (R 336.1213(4)(a), R 336.1119(a)(ii))

Appendix 3. Monitoring Requirements

Specific monitoring requirement procedures, methods or specifications are detailed in Part A or the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, this appendix is not applicable.

Appendix 4. Recordkeeping

Specific recordkeeping requirement formats and procedures are detailed in Part A or the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, this appendix is not applicable.

Appendix 5. Testing Procedures

Specific testing requirement plans, procedures, and averaging times are detailed in the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, this appendix is not applicable.

Appendix 6. Permits to Install

The following table lists any PTIs issued or ROP revision applications received since the effective date of the previously issued ROP No. MI-ROP-B9073-2014. Those ROP revision applications that are being issued concurrently with this ROP renewal are identified by an asterisk (*). Those revision applications not listed with an asterisk were processed prior to this renewal.

Source-Wide PTI No MI-PTI-B9073-2014 is being reissued as Source-Wide PTI No. MI-PTI-B9073-2019.

Permit to Install Number	ROP Revision Application Number	Description of Equipment or Change	Corresponding Emission Unit(s) or Flexible Group(s)
NA	201500039/May 5, 2015	Clarification of stack orientations for SV- VRU-NORTH and SV-VRU-SOUTH. These stacks vent horizontally.	FGLOADRACKS
122-16	201600194/March 7, 2017	Incorporate PTI 122-16, which changes the service of Tank ID 67-12 from fuel oil to gasoline and plans to install a cable- suspended internal floating roof in tank EUTK67-12.	EUTK67-12 FGTANKFARM

Appendix 7. Emission Calculations

There are no specific emission calculations to be used for this ROP. Therefore, this appendix is not applicable.

Appendix 8. Reporting

A. Annual, Semiannual, and Deviation Certification Reporting

The permittee shall use the EGLE, AQD, Report Certification form (EQP 5736) and EGLE, AQD, Deviation Report form (EQP 5737) for the annual, semiannual and deviation certification reporting referenced in the Reporting Section of the Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Alternative formats must meet the provisions of Rule 213(4)(c) and Rule 213(3)(c)(i), respectively, and be approved by the AQD District Supervisor.

B. Other Reporting

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Specific reporting requirement formats and procedures are detailed in Part A or the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, Part B of this appendix is not applicable.

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CARBON ADSORBER VAPOR RECOVERY UNIT (VRU) FOR VOC CONTROL

MPLX TERMINALS LLC NILES, MI

I. Background

Background information about the units covered in this CAM plan is provided below. This information is specific to the MPLX Terminals LLC – Niles, Michigan facility.

Emission Unit Description	South Liquid Petroleum Loading Rack	
Identification & Air Pollution Control Device ID	EURACK-SOUTH	
Applicable Regulation	MI-ROP-B9073-2019 Condition FG-LOADRACKS D.I.1; MI APC Rule 336.1213(2)	
Emission Limit (VOC)	35 mg/liter of organic compounds loaded	
Monitoring Requirements	Monitor vacuum profile during carbon bed regeneration cycle and provide leak detection and repair program.	
Control Technology	Carbon adsorber.	

II. Monitoring Approach

The key elements of the monitoring approach are as follows:

- Monitoring vacuum of the carbon beds can provide an early indication of potential problems with bed regeneration or vessel tightness.
- Absence of leaks indicates that proper vapor control is taking place and the equipment is functioning as intended.

	Indicator 1	Indicator 2
A. Indicator	Monitor vacuum level of carbon beds during regeneration cycle.	Quarterly leak detection and repair of vapor recovery unit.
B. Indicator Range	An excursion occurs when the maximum vacuum level of each regeneration cycle does not average 26" Hg over a 6-hour period during gasoline loading operations and the load rack is not immediately shutdown. When an excursion occurs, gasoline loading / unloading at the loading rack will be shut down until proper regeneration of the carbon bed is restored or until the Secondary Vapor Control System is brought on-line. An excursion will trigger an investigation, corrective action, and a reporting requirement.	An excursion is defined as detection of a gas detector reading greater than or equal to 100% of the lower explosive limit at a distance of one inch from the location of the potential leak in the vapor recovery unit and the load rack is not immediately shutdown. When an excursion occurs, gasoline loading / unloading will be shut down at the loading rack until the repair is made or until the Secondary Vapor Control System is brought on- line. An excursion will trigger an investigation, corrective action, and a reporting requirement.
C. QIP Threshold	If pressure readings occur outside the range 6 times in a 6 month reporting period.	None proposed

NOTE: An excursion from an indicator range is not necessarily a deviation under the Renewable Operating Permit. A deviation occurs only if the excursion results in a situation where a permit condition or limit was not continuously achieved. If an excursion occurs it will be reported as part of the semi-annual Renewable Operating Permit certification.

III. <u>Performance Criteria</u>

	Indicator 1	Indicator 2
A. Data	The vacuum during the regeneration cycle	A handheld monitor is used to
Representativeness	is measured with a pressure transmitter in	check for leaks in the vapor
	the vacuum pump suction line.	collection system during
		loading operations.
B. Verification of	NA	NA
Operational Status		
C. QA/QC	Pressure transmitter is calibrated per	Follow procedures in R
Practices and	manufacturer's specifications. An annual	336.2005.
Criteria	check is performed on the current for	
	drift.	
D. Monitoring	Bed vacuums are continuously monitored	Quarterly, when the vapor
Frequency	when the vapor recovery unit is in-use.	recovery unit is in-use.
E. Data Collection	A data acquisition system (DAS) records	Records of inspections, leaks
Procedures	the pressure profile during each	found, leaks repaired.
	regeneration cycle.	
F. Averaging	6 hour average of the maximum vacuum	None
period	achieved during each regeneration cycle	

IV. JUSTIFICATION

A. Rationale for Selection of Performance Indicators

The carbon adsorber system was selected specifically for this installation based on the maximum expected loading and types of products loaded. The carbon beds and vacuum pump were sized appropriately. The vacuum achieved during regeneration is an indication of the performance of the VRU. If vacuum levels are too low, the carbon bed may not fully regenerate. Monitoring of the vacuum profile during regeneration, coupled with routine inspection activities, serves to verify that the VRU is operating properly and provides a reasonable assurance of compliance.

A quarterly leak inspection program is performed to help ensure that the vapors released during loading are captured and conveyed to the VRU for proper treatment. A handheld monitor is used to detect leaks in the vapor collection system following test procedures described in R 336.2005.

B. Rationale for Selection of Indicator Ranges

For the first indicator, the VRU system was designed and demonstrated by compliance tests to achieve the specified emissions limit when regenerated as specified.

The second indicator identifies leaks for necessary repairs. It is required by R 336.1627(7).

PORTABLE VAPOR COMBUSTOR UNIT (VCU) FOR VOC CONTROL

MPLX TERMINALS LLC NILES, MI

I. Background

Background information about the vapor combustor units covered in this CAM plan is provided below. This information is specific to the MPLX Terminals LLC – Niles, Michigan facility.

Emission Unit Description	South Liquid Petroleum Loading Rack	
Identification & Air Pollution Control Device	EUVCU-PORT	
Applicable Regulation	MI-ROP-B9073-2019, Condition FG- LOADRACKS D.I.3 and D.I.4; MI APC Rule 336.1702(b) and R 336.1301(c).	
Emission Limit (VOC)	35 mg/liter of organic compounds loaded	
Opacity Limit	0%	
Monitoring Requirements	Monitor flame presence and perform visible emission checks.	
Control Technology	Portable Vapor Combustion Air-Assisted Flare	

II. Monitoring Approach

The key elements of the monitoring approach are as follows:

- The presence of a pilot flame ensures that hydrocarbon vapors will ignite when in the presence of the pilot.
- Absence of visible emissions indicates that complete combustion is taking place.

	Indicator 1	Indicator 2
A. Indicator	Monitor the presence of a pilot flame at all times gasoline loading / unloading is occurring using a heat sensing device (such as an ultraviolet beam detector or thermocouple).	Visible emission check performed at least once each scheduled work day when in operation.
B. Indicator range	An excursion occurs when a pilot flame is not detected during gasoline loading / unloading and the load rack is not immediately shutdown. When an excursion occurs gasoline loading / unloading at the load rack will be shut down until the vapor combustor unit is repaired or replaced, or the Primary Vapor Control System is brought on-line. An excursion will trigger an investigation, corrective action, and a reporting requirement.	An excursion occurs if visible emissions are observed for 5 cumulative minutes during two consecutive hours and gasoline loading / unloading at the load rack is not immediately shutdown. When an excursion occurs gasoline loading / unloading at the load rack will be shut down until the vapor combustor unit is repaired or replaced, or the Primary Vapor Control System is brought on-line. An excursion will trigger an investigation, corrective action, and a reporting requirement.
C. QIP Threshold	None specified	If visible emissions are observed for 5 cumulative minutes during two consecutive hours, two days in a 1- month reporting period.

NOTE: An excursion from an indicator range is not necessarily a deviation under the Renewable Operating Permit. A deviation occurs only if the excursion results in a situation where a permit condition or limit was not continuously achieved. If an excursion occurs it will be reported as part of the semi-annual Renewable Operating Permit certification.

III. <u>Performance Criteria</u>

	Indicator 1	Indicator 2
A. Data Representativeness	The heat sensing device sends a positive parameter value to indicate that the pilot flame is on, or a negative parameter value to indicate that the pilot flame is off.	Non-Method 9 visual observation of vapor combustor unit exhaust
B. Verification of Operational Status	Self-test feature	N/A
C. QA/QC Practices and Criteria	When vapor combustor unit is in operation, maintenance of heat sensing device per manufacturer's specifications, and annual check of system shut down alarm.	N/A
D. Monitoring Frequency	Continuous flame detection during operation	Scheduled work days; 15- minute periods following positive observation until visible emissions are no longer observed if load rack is not shutdown.
E. Data Collection Procedure	Malfunction/response recorded manually upon occurrence	Manual record
Averaging Period	N/A	N/A – no opacity readings are collected for averaging.

NOTE: The phrase "scheduled work day", as applied in this Plan, refers to each scheduled day of work, Monday through Friday, excluding holidays, when gasoline is being loaded at the loadrack.

IV. Justification

A. Rationale for Selection of Performance Indicators

The portable vapor combustor unit was custom-designed specifically for this installation based on the maximum expected loading and types of products loaded. The burner tips were sized appropriately. The presence of a pilot flame and absence of visible emissions are important variables in the performance of the flare. The pilot flame is monitored with a heat sensing device (such as an ultraviolet beam detector or thermocouple), which relays pilot failure to a control panel. Both factors are simple indicators that prove combustion has been achieved. Monitoring of the pilot flame and visible emissions during operations, serve to verify that the flare is operating properly and provide a reasonable assurance of compliance.

B. Rationale for Selection of Indicator Ranges

The selected indicator ranges are presence of pilot flame and presence of no visible emissions. When an excursion occurs, corrective action will be initiated, beginning with an evaluation of the occurrence to determine the action required to correct the situation. All excursions will be documented and reported.

VAPOR RECOVERY UNIT MAINTENANCE & INSPECTION PLAN

NILES LIGHT PRODUCT TERMINAL – MPLX TERMINALS LLC

1.0 INTRODUCTION

This Maintenance and Inspection Plan is developed pursuant to Rule 336.1213(3) of Michigan's Administrative Rules for Air Pollution Control. The purpose of this plan is to describe the standard operating procedures that will be used to inspect and maintain the primary Vapor Control Systems (VCS) at the Niles South Load Rack (EURACK- SOUTH). The primary VCS is a carbon adsorption system using a Vapor Recovery Unit (VRU).

The maintenance and inspection program includes the following elements:

- Description of the items or conditions that shall be inspected
- The frequency of inspection or maintenance
- Responsible position or group

2.0 MAINTENANCE AND INSPECTION PROGRAM

This program is designed to establish a maintenance and inspection schedule for key equipment and accessories associated with the VRUs not already covered through the Compliance Assurance Monitoring Plan (CAM) and Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities - Notice of Compliance Status (NOCS). Components of the VRUs that need to be inspected or maintained, the frequency of inspection or maintenance, and the group responsible, are listed in **Table 1**.

MPLX Terminals LLC will keep a record of equipment inspection and maintenance activities conducted in accordance with this plan. The records, which will be kept for five years, will include the following information:

- Date of inspection
- Inspector's name or initials
- Description of inspection or maintenance
- Comments and additional information, as necessary

Table 1 – Inspection & Maintenance Program

Items Inspected	Frequency of Inspection*	Responsibility	Recordkeeping
	Weekly Inspection:	Terminal	Electronic
VRU	1. Check motors and pumps for unusual noises	Operations	documentation
	2. Verify glycol level		
VRU Motors and	Annual Preventative Maintenance:	M&VCS	Electronic
Pumps	Service the motors and pumps.	Specialist	documentation
T unips	Service the motors and pumps.	Specialist	documentation
Electrical Panel	Annual Preventative Maintenance:	M&VCS	Electronic
		Specialist	documentation
	Check PLC components, tighten wiring, and check fuses.		
Vacuum System	Annual Preventative Maintenance:	M&VCS	Electronic
5	Conduct a leak test on each carbon bed	Specialist	documentation
		1	
Emergency	Annual Preventative Maintenance:	M&VCS	Electronic
Shutdown Faults	Verify loading shutdown with fault conditions / testing.	Specialist	documentation

*Note: Inspections and Maintenance are not required if the VRU is not in service and/or gasoline truck loading is not occurring at the load rack.

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TABLE 1 SUMMARY OF FACILITY-WIDE POTENTIAL TO EMIT **MPLX** Terminals LLC Niles Terminal

Emission Unit	Potential to Emit VOCs (Tons/Year)	Potential to Emit Total HAPs (Tons/Year)
Load Rack		
Gasoline, South VRU	84.7	4.41
Truck Leaks		
Gasoline	31.5	1.64
Storage Tanks		
Working/Breathing Losses	53.1	1.09
Miscellaneous		
Leaking Components	0.45	0.04
Total:	169.7	7.2

Notes:

1. The ROP currently limits gasoline throughput to 580 MM gal/yr; the south load rack VRU and backup VCU are each limited to 35 mg/L.

TABLE 2 FUGITIVE VOC EMISSIONS FROM THE LOADING RACK AND TANKER TRUCK LEAKS MPLX Terminals LLC **Niles Terminal**

		Gasoline Loading Rack Limit	Truck Fugitive Leaks
	Units	South Terminal	South Rack
Emission Limit	mg/L	35	13
De els Threusehnut Limit	MM gal/yr	580	580
Rack Throughput Limit	MM L/yr	2,195	2,195
		·	· ·
	MM mg/yr	76,836	28,539
Francisca Fatimento e	g/yr	76,835,500	28,538,900
Emission Estimates	lb/yr	169,390	62,916
	ton/yr	84.7	31.5

Notes:

1. Throughput is not directly limited under FG-LOADRACKS. However, FGTANKFARM limits gasoline storage to 580 MMGal/yr.

2. Emission limits stipulated under FG-LOADRACKS.

TABLE 3 TANKS CALCULATED EMISSION RATES MPLX Terminals LLC Niles Terminal

								Tank E	Emission Calcula	ations							
						Total VOC	& HAP Emission Calcul	ations		Speciated	HAP Emis	ssion Cal	culations				
Emissions Group	Emission Source	Terminal	Permit Tank Number	Storage Tank Capacity (barrels)	Storage Material		Calculated VOC Emissions (tons/yr)			Ethyl Benzene (lb/yr)				-	Cumene (Ib/yr)	Total Gasoline Throughput (permit - 580 million gals/yr)	Total VOC Emissions (permi - 53.11 tons/yr)
	Fixed Roof Tank	North	EUTK20-13	17,677	No. 2 Fuel Oil	526,075.55	0.05	0.00	0.21	0.31	0.04	2.39	-	5.93	-		
	Domed External Floating Roof Tank	South	EUTK25-3	20,931	Variable RVP Gasoline	26,977,753.70	3.04	0.06	23.79	2.71	21.12	30.31	28.54	12.57	0.67		
	Internal Floating Roof Tank	North	EUTK31-11	28,406	Variable RVP Gasoline	13,415,754.20	4.04	0.07	30.46	2.55	27.52	35.17	35.12	11.43	0.52		
	Fixed Roof Tank	South	EUTK35-4	30,312	Jet Kerosene & FO	526,075.55	0.08	0.01	0.33	0.48	0.07	3.77	-	9.35	-		
	Internal Floating Roof Tank	South	EUTK55-2	48,653	Variable RVP Gasoline	162,281,810.88	6.35	0.15	52.58	8.32	45.50	76.17	66.66	39.55	2.36		
FGTANKFARM	Domed External Floating Roof Tank	South	EUTK55-5	48,540	Variable RVP Gasoline	66,584,926.80	2.48	0.06	20.24	3.16	17.57	29.10	25.58	15.00	0.89		
Emission Group	Internal Floating Roof Tank	South	EUTK55-6	51,176	Variable RVP Gasoline	43,840,324.08	6.92	0.13	52.61	4.73	47.35	62.03	61.16	21.40	1.02	579,999,995.60	53.08
Emission Gloup	Internal Floating Roof Tank	South	EUTK55-7	48,253	Variable RVP Gasoline	183,334,016.96	3.47	0.10	31.79	-	26.42	54.44	43.58	34.64	2.22		
	Internal Floating Roof Tank	North	EUTK64-9	54,824	Variable RVP Gasoline	2,811,687.77	7.11	0.12	53.39	-	48.53	58.83	60.45	16.32	0.63		
	Internal Floating Roof Tank	North	EUTK67-12	61,188	Variable RVP Gasoline	3,072,409.17	7.31			3.85	49.90	60.53	62.18	16.82	0.65		
	Fixed Roof Tank	South	EUTK80-8	79,906	No. 2 Fuel Oil	69,483,355.20	0.77	0.07	3.25		0.67	36.52	-	89.93	-		
	Internal Floating Roof Tank	North	EUTK100-10	93,826	Variable RVP Gasoline	77,295,274.56					69.93	91.37	90.23	31.23	1.47		
	Internal Floating Roof Tank		EUTKT-1	1,791	Transmix/Gasoline	386,037.49	1.30	0.02	9.71	0.70	8.82	10.79	11.03	3.09	0.12		
	Horizontal Tank	South	EUTKAA1-7	13	Diesel Lubricity												
	Fixed Roof Tank	South	EUTKAA6-3	143	Diesel Lubricity												
	Fixed Roof Tank	South	EUTKAA8-1	184	Diesel Lubricity												
Insignificant Tanks	Fixed Roof Tank	South	EUTKAA10-2	189	Gasoline Additive												
Insignificant Taliks	Fixed Roof Tank	North	EUTKAA10-4	278	Gasoline Additive												
	Fixed Roof Tank	South	EUTKAA5-7	100	Diesel Die												
	Horizontal Tank/Underground	South	RB-4-1		No. 2 Fuel Oil						1 1						

Notes 1. PTE includes two roof landings for each floating roof tank. This represents two seasonal RVP changes (Spring and Fall). 2. PTE includes four total tank cleanings. 3. Tank Calculated PTE is 53.08 tons/yr. However, MPLX is requesting to maintain the same limit of 53.11 tons/yr

TABLE 4 FUGITIVE VOC EMISSIONS FROM LEAKING COMPONENTS MPLX Terminals LLC Niles Terminal

Sources	Flanges/ Connectors Quantity	Penflex/ Dresser Couplings Quantity	Loading Arms Quantity	Meters Quantity	Pressure Relief/ Ball Valves Quantity	Pump Seals Quantity	
	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	╈
Liquid Sources:	2086	11	14	17	165	19	
Vapor Sources:	14	0	0	0	7	0	
TOTAL (Liquid)	2086	11	14	17	165	19	
TOTAL (Vapor)	14	0	0	0	7	0	
Liquid Emission Factor (lb/hr)	0.000017640	0.000287	0.000287	0.000287	0.000094800	0.001190500	
Vapor Emission Factor (lb/hr)	0.000092590	0.000265	0.000265	0.000265	0.000028660	0.001190500	
Operation (hr/yr)	8760	8760	8760	8760	8760	8760	
Emissions (lb/hr)	0.04	0.00	0.00	0.00	0.02	0.02	
Emissions (lb/yr)	333.70	27.62	35.15	42.68	138.78	198.15	
Emissions (ton/yr)	0.17	0.01	0.02	0.02	0.07	0.10	

Notes:

TOTAL FUGITIVE EMISSION LOSS (ton/yr):

1. Representative fugitive leak table applied to MPLX terminals. Terminal-specific emissions may vary by minor amounts due to variations in actual component count.

Valves	
Quantity	
148	
4	
148	
4	
0.000094800	
0.000028660	
8760	
0.01	
123.91	
0.06	



TABLE 5 ESTIMATE OF POTENTIAL HAP EMISSIONS MPLX Terminals LLC Niles Terminal

				HAPs Estin	nato	
	ľ	VRU	Trucks			
	VOC Emissions (ton/yr):	84.70	31.46	0.70	53.08	Total
Hazardous Air Pollutant	Average Vapor Wt%		HAP Emissio	ns Estimate		
Benzene	0.9	0.76	0.28	0.01	0.21	1.05
Ethyl Benzene	0.1	0.08	0.03	0.00	0.02	0.12
Hexane	1.6	1.36	0.50	0.01	0.18	1.87
Toluene	1.3	1.10	0.41	0.01	0.28	1.52
Isooctane	0.8	0.68	0.25	0.01	0.24	0.93
Xylenes	0.5	0.42	0.16	0.00	0.15	0.58
Cumene	0.01	0.01	0.00	0.00	0.01	0.01
	Total (ton/yr):	4.41	1.64	0.04	1.09	6.09
	Total (lb/hr)	1.007	0.374	0.008	0.249	1.390

Terminal Fugitive Estimates

These templates should be used for <u>what if</u> potential calculations, new equipment, new component counts for permit applications, etc! Actual terminal [fugitive emissions (based on *current* component counts) should be run in opsInfo, Report: <u>Terminal Fugitive Summary</u>. Contact your Environmental AP in Findlay for this actual report. (For an example of the Terminal Fugitive Summary report, see "Sources".)

Instructions for Template: 1) Save document to your computer. (Click <u>File, SaveAs, enter document name</u>). 2) Follow Instructions below. 3) In yellow shaded cells below, you may enter the required text **or** all text can be entered on the Terminal Fugitive calculation sheets if you prefer.

General Information

1	Location:	Niles	Enter facility name.				
2	Time Period:	Potential	Enter "Potential" or time period of calculations				
3	Name:	Will Wallace	Enter your name				
4	Comments:	Butane Storage Vessel Project Enter comments if necessary.					
5	Select Sheet: Fugitives by Compnent, Fugitives by Asset.	-Sources column: enter all sources -Quantity columns, enter appropr -Vapor Sources = VCS, lines from I -Liquid Sources = anything that co	 nent" - Requires component counts to be entered into form. a (tanks, rack, etc.). a (tanks, etc.).<				
		-Asset Counts: enter quantities of	assets (tanks, arms, bays, VRUs) in the column "Enter Count"				
NOTE:	This document is only for Fugitives	r use when calculating potential emission	ons or changes to current terminal fugitive counts. This is not related to Tank Truck				

Emissions - Terminal Fugitive VOC Estimate

LOCATION:

Niles

COMMENTS:

Butane Storage Vessel Project

TIME PERIOD: Potential

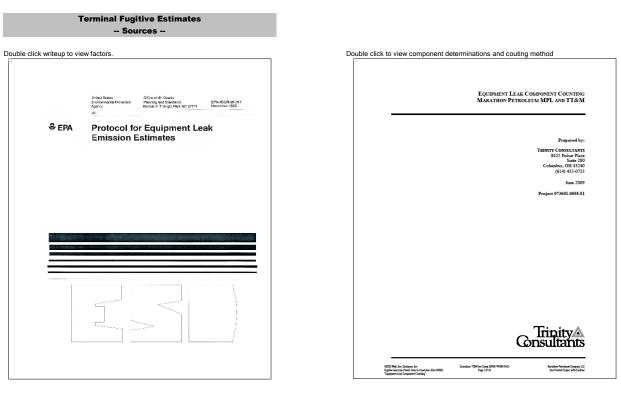
BY: Will Wallace

	Fitt	ings				Open-Ended
Sources	Connectors	Flanges	Pump Seals	Valves	Others	Lines
	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity
Liquid Sources:						
Butane Bullet and associated piping	4	34	2	10		
Vapor Sources:						
TOTAL (Liquid)	4	34	2	10	0	0
TOTAL (vapor)	0	0	0	0	0	0
	0	0		0	0	U
Liquid Emission Factor (lb/hr)	0.000017640	0.000017640	0.001190500	0.000094800	0.000286600	0.006503640
Vapor Emission Factor (lb/hr)	0.000092590	0.000092590	0.001190500	0.000028660	0.000264550	0.006613870
Operation (hr/yr)	8,760	8,760	8,760	8,760	8,760	8,760
Emissions (lb/hr)	0.00	0.00	0.00	0.00	0.00	0.00
Emissions (lb/yr)	0.62	5.25	20.86	8.30	0.00	0.00
Emissions (ton/yr)	0.0003	0.0026	0.0104	0.0042	0.0000	0.0000

Notes:

1. This survey is conservative. 200% of the estimate of the fitting counts was used.

2. Emission Factor Source: EPA Publication No. EPA-453/R-95-017, "Protocol for Equipment Leak Emission Estimates, November 1995"



Terminal Fugitive Summary report from opsinfo:

	ent Counts	(Estimated) Connectors Liquid / Gas	Flangess Liquid / Gas	Pump Seals Liquid / Gas	Valves Liquid / Gas	Others Liquid / Gas	Open-Ended Lines Liquid / Gas	Leak Rate Liquid / Gas	Hours in Period	VOC Lbs
Note	04 / 2018	Fugitive counts based	on 10 tanks & have	a 10 arms and 2 1	7PT Is					
Period		8,300/618	1,850 / 612	46/0	2,300/300	37/6	0/0	0.4625 / 0.1241	744	436.37
Period:	02 / 2019	8,300/618	1,850 / 612	46/0	2,300/300	37/6	0/0	0.4625 / 0.1241	672	394.14
Period:	03 / 2019	8,300/618	1,850 / 612	46/0	2,300/300	37/6	0/0	0.4625 / 0.1241	744	436.37
Period:	04 / 2019	8,300/618	1,850/612	46/0	2,300/300	37/6	0/0	0.4625 / 0.1241	720	422.30
Period:	05/2019	8,300/618	1,850 / 612	46/0	2,300/300	37/6	0/0	0.4625 / 0.1241	744	436.37
Period:	06/2019	8,300/618	1,850 / 612	46/0	2,300/300	37/6	0/0	0.4625 / 0.1241	720	422.30
Period:	07 / 2019	8,300/618	1,850 / 612	46/0	2,300/300	37/6	0/0	0.4625 / 0.1241	744	436.37
Period:	08 / 2019	8,300/618	1,850/612	46/0	2,300/300	37/6	0/0	0.4625 / 0.1241	744	436.37
Period:	09 / 2019	8,300/618	1,850 / 612	46/0	2,300/300	37/6	0/0	0.4625 / 0.1241	720	422.30
Period:	10 / 2019	8,300/618	1,850 / 612	46/0	2,300/300	37/6	0/0	0.4625 / 0.1241	744	436.37
Period:	11/2019	8,300/618	1,850 / 612	46/0	2,300/300	37/6	0/0	0.4625 / 0.1241	720	422.30
Period:	12 / 2019	8,300/618	1,850 / 612	46/0	2,300/300	37/6	0/0	0.4625 / 0.1241	744	436.37
									8,760	5,137.95

 1993. API Factors:
 Reference API 408.06. Mer 108.7 § 2-8. Turb 10. Development of Pagine Emession Proton and Emession Proton Produces Paralisan Patients Patients Patients Patients

 1995. EPA Factors:
 References PR-4638/ne6-017. Nov-1000. Ptg-2-14. Tu-12.2 Patients for Experiment Last Ensusce Estimates.)

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		Terminal Fugitive Estimates Form Changes					
	Updated by:	Description					
7/5/2005 T		Changed column order to match OIS data entry order and formated the liquid & vapor factors to not show exponents. Also adde					
		several more data entry rows. Corrected formulas for cells: G37, G38, H37 and H38. Removed name "Option2" from form Title. Updated revision date sho					
12/21/2005 L		on sheet). Corrected formulas for Penflex/Dresser Couplings & Meters columns. When the columns were updated in December, the EF					
1/5/2006 L	ATrentman	cells changed to text. No change in factors from original spreadsheet dated 1995.					
2/17/2009 L	ATrentman	Added Instructions page. Renamed "Backup" sheet to "Sources." Added Document control/Records data.					
8/22/2013 E	Everbardt	Replaced API 1993 calculations with EPA 1995 calculations. Replaced API source document with EPA source document. LAT					
		Updated footer, MPC name on all pages. Based on information provided Eric Everhardt and Tina Harper, added the sheet "Terminals Fugitives by Asset WK" which					
11/4/2019 L	.ATrentman	calculates components similar to opsinfo and OIS. Updated instructions, added notes on actual report that can be run in opsinfo and added an example of this report on Sources					
9/4/2020 L	ATrentman	page. No other changes made.					
	-						
	-						
	-						
	-						

Asset	Enter Count	Emission lbs	Emission Tons
Tanks	11.	1,452.01	0.73
Arms	13	1,178.83	0.59
Bays	3	19.12	0.01
VRUs	1	349.56	0.17
TOTALS	28	2,999.52	1.50

Number of Tanks							
11							
Valves Flanges Connectors Pumps Others							
825	550	2,750	22	11			
Emission Factors in Ibs							
0.00009480 0.00001764 0.00001764 0.00119050 0.00028660							
		Hours per Yea	r				
8,760	8,760	8,760	8,760	8,760			
	Em	ission Ibs per Y	(ear				
685.11	84.97	424.87	229.43	27.62			
	Emi	ssion Tons per	Year				
0.34	0.04	0.21	0.11	0.01			

Number of Arms								
	13							
Valves	Flanges	Connectors	Pumps	Others				
650	650	2,600	10	13				
	Emission Factors in Ibs							
0.00009480	0.00001764	0.00001764	0.00119050	0.00028660				
Hours per Year								
8,760	8,760	8,760	8,760	8,760				
Emission Ibs per Year								
539.78	100.42	401.70	104.29	32.64				
Emission Tons per Year								
0.27	0.05	0.20	0.05	0.02				

Valves Fla	nges N	lumber of Bay 3	5				
Valves Fla	inges	3					
Valves Fla	inges						
		Connectors	Pumps	Others			
-	9	6	-	3			
Emission Factors in Ibs							
0.00002866 0	.00009259	0.00009259	0.00014330	0.00026455			
Hours per Year							
8,760	8,760	8,760	8,760	8,760			
Emission Ibs per Year							
0.00	7.30	4.87	0.00	6.95			
Emission Tons per Year							
0.00	0.00	0.00	0.00	0.00			

Number of VRUs							
1							
Valves	Flanges	Connectors	Pumps	Others			
100	200	200	-	-			
Emission Factors in Ibs							
0.00002866	0.00009259	0.00009259	0.00014330	0.00026455			
Hours per Year							
8,760	8,760	8,760	8,760	8,760			
Emission Ibs per Year							
25.11	162.22	162.22	0.00	0.00			
Emission Tons per Year							
0.01	0.08	0.08	0.00	0.00			