



CMRRR No. 7018 2290 0000 9197 3385

May 10, 2019

State of Delaware - DNREC
Division Director – Division of Air Quality
State Street Commons
100 W. Water Street, Suite 6A
Dover, DE 19904

**Re: Delaware City Refining Company, LLC.
Regulation 1130 (Title V) Operating Permit Program
Operating Permit Renewal Application & Modifications**

Dear Division Director:

This is an application for renewal and modification of the Regulation 1130 (Title V) State Operating Permit AQM-003/00016 – Part 1 (Renewal 2)(Revision 3), Part 2 (Renewal 1)(Revision 3) and Part 3 (Renewal 2)(Revision 3) (collectively “the Permit”) for the Delaware City Refining Company refinery located in Delaware City, Delaware. This application is being submitted in accordance with Condition 2.I of the permit. The permit expires on May 27, 2020.

In addition to the application for renewal, DCRC is requesting the following updates be included:

- The applicable requirements of the Regulation 1102 operating permits issued by the Delaware Department of Natural Resources and Environmental Control (“DNREC”) for the DCRC Ethanol Marketing Project, permits dated October 19, 2017:
 - Permit APC-1995/0471-CONSTRUCTION/OPERATION (A5)(LAER)(MACT)(NSPS) – MVRS
 - Permit APC-1980/0868-CONSTRUCTION/OPERATION (A5)(MACT)(VOC RACT) – Tank 206
 - Permit APC-1980/0869- CONSTRUCTION/OPERATION (A7)(MACT)(VOC RACT) – Tank 225
- Request for elimination of the maximum data capture requirements for Crude NOx CEMS in Condition 3, Table (Part 2) C – Crude Unit
 - Crude NOx CEMS data capture requirements all ready included in Facility Wide Emission Limit for Nitrogen Oxides (NOx), Condition 3, Table 1 (Part 1) jb and is more stringent than that which is included in the Crude section (90% capture each month vs 85% capture)



- Incorporation of requirements contained in the Consent Decree "United States of America et al., v. Motiva Enterprises LLC, No. H-01-0978:
 - Condition 76 incorporate into Condition 3, Table 1 (Part 2) aa.iv.D: Conduct laboratory audits of all laboratories that perform analysis of benzene NESHAP samples every two years or prior to using a new lab for analysis of benzene samples.
 - Condition 93 incorporate into Condition 3, Table 1 (Part 2) aa.ii.G: Identify and mark all area drains that are stormwater drains.
 - Condition 117 incorporate into Condition 3, Table 1 (Part 2) oa.iii: Make a first attempt at repair on any valve that has a reading greater than 100 ppm of VOC or hazardous air pollutant.
- Correct typo in Condition 3, Table (Part 3) d.10 – Combined Cycle Units 84-1 and 84-2
 - Sulfuric Acid emission limitation is listed as 3.1 tons per year, however, it should be 4.1 tons per year as shown in Section 2.1.7 of the Reg 1102 permit APC-97.0503-(A10) dated July 2, 2014.
- Update all tank sections to reflect the replacement of EPA TANKS 4.09, no longer supported by EPA, with TankESP Pro Version to estimate tank air emissions.

This submittal contains form AQM-1001BB (compliance certification). A certification of compliance through May 10, 2019 is being concurrently submitted in accordance with the requirements of the current Title V permit. This submittal contains an up to date (January 1, 2019 through May 10, 2019) compliance certification for only those permit terms requested to be modified through this permit amendment process. Compliance certification is provided semi-annually for all permit terms with the most recent submittal on January 30, 2019 and the upcoming compliance certification for the first half of 2019 due August 1, 2019.

One (1) copy is being submitted to the United States Environmental Protection Agency in Philadelphia, Pennsylvania.

If you have any questions or comments regarding this letter, please contact me at 302-836-6750.

Sincerely,

A handwritten signature in black ink, appearing to read "Larry Boyd", is written over a horizontal line.

Larry Boyd
Environmental Engineer



\Enclosures

cc: Section Chief
United States Environmental Protection Agency
Associate Director of Enforcement (3AP12)
1650 Arch Street
Philadelphia, PA 19103
CMRRR # 7018 2290 0000 9197 3378

TITLE V OPERATING PERMIT
AQM-003/00016 – PART 1 (Renewal 2)(Revision 3)
AQM-003/00016 – PART 2 (Renewal 1)(Revision 3)
AQM-003/00016 – PART 3 (Renewal 2)(Revision 3)

APPLICATION FOR RENEWAL & MODIFICATION



DELAWARE CITY REFINING COMPANY LLC
DELAWARE CITY REFINERY
DELAWARE CITY, DELAWARE
FACILITY ID #1000300016

May 2019

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**Application for Permit Modification
Delaware City Refining Company, LLC
Title V Operating Permit AQM-003/00016 – Parts 1, 2, & 3**

1. Introduction

This is an application for the renewal of Regulation No. 30 (Title V) State Operating Permits AQM-003/00016 – Part 1 (Renewal 2)(Revision 3), Part 2 (Renewal 1)(Revision 3) and Part 3 (Renewal 2)(Revision 3) (collectively the “Permit”) (collectively, the “Permits”) issued to The Delaware City Refining Company LLC (“DCRC”) for operation of emission units at the Delaware City Refinery located in Delaware City, Delaware (the “Refinery”). This application is being submitted in accordance with Condition 2.I of the Permit.

2. Requested Permit Changes

DCRC is requesting to incorporate terms and conditions from issued Regulation 1102 Operating Permits which have not yet been incorporated into the Permit. The applicable requirements of the Regulation 1102 operating permits issued by the Delaware Department of Natural Resources and Environmental Control (“DNREC”) for the DCRC Ethanol Marketing Project, permits dated October 19, 2017:

- Permit APC-1995/0471-CONSTRUCTION/OPERATION (A5)(LAER)(MACT)(NSPS) – MVRS
- Permit APC-1980/0868-CONSTRUCTION/OPERATION (A5)(MACT)(VOC RACT) – Tank 206
- Permit APC-1980/0869- CONSTRUCTION/OPERATION (A7)(MACT)(VOC RACT) – Tank 225

A summary of the terms and conditions of these permits and the necessary modifications to incorporate these permits are provided in Table 1-1 and the proposed revisions are shown in the Title V Permit Mark-Up contained in Attachment 1. A copy of each of the Regulation 1102 operating permits are included In Attachment 2.

Changes being proposed to the permit for reasons other than incorporation of recently issued Regulation 1102 Operating Permits are listed below and the proposed revisions are shown in the Title V Permit Mark-Up contained in Attachment 1.

- Request for elimination of the maximum data capture requirements for Crude NOx CEMS in Condition 3, Table (Part 2) C – Crude Unit
 - Crude NOx CEMS data capture requirements all ready included in Facility Wide Emission Limit for Nitrogen Oxides (NOx), Condition 3, Table 1 (Part

**Application for Permit Modification
Delaware City Refining Company, LLC
Title V Operating Permit AQM-003/00016 – Parts 1, 2, & 3**

1) jb and is more stringent than that which is included in the Crude section, Condition 3, Table 1 (Part 2) c.4.ii.A (90% capture each month vs 85% capture)

- Incorporation of requirements contained in the Consent Decree “United States of America et al., v. Motiva Enterprises LLC, No. H-01-0978:
 - Condition 76 incorporate into Condition 3, Table 1 (Part 2) aa.iv.D: Conduct laboratory audits of all laboratories that perform analysis of benzene NESHAP samples every two years or prior to using a new lab for analysis of benzene samples.
 - Condition 93 incorporate into Condition 3, Table 1 (Part 2) aa.iv.E: Identify and mark all area drains that are stormwater drains.
 - Condition 117 incorporate into Condition 3, Table 1 (Part 2) oa.iii: LDAR, make a first attempt at repair on any valve that has a reading greater than 100 ppm of VOC or hazardous air pollutant.
- Correct typo in Condition 3, Table (Part 3) d.10 – Combined Cycle Units 84-1 and 84-2
 - Sulfuric Acid emission limitation is listed as 3.1 tons per year, however, it should be 4.1 tons per year as shown in Section 2.1.7 of the Reg 1102 permit APC-97.0503-(A10) dated July 2, 2014.
- Update all tank sections to reflect the replacement of EPA TANKS 4.09, no longer supported by EPA, with TankESP Pro Version to estimate tank air emissions.

It should be noted that only pages containing proposed revisions are included in the Title V Permit Mark-Up contained in Attachment 1. DCRC requests that all permit terms for which a modification is not specifically requested in this renewal application to be incorporated by reference into the renewed permit.

3. Compliance Assurance Monitoring (CAM)

An applicability determination of 40 CFR 64, Compliance Assurance Monitoring (CAM Rule) with respect to each unit has previously been performed and submitted through Title V permit renewal applications. Applicability determinations for units affected by the proposed modifications are included as Table 1-2. The results are present in Table 1-2. The determination was based on the following criteria:

**Application for Permit Modification
Delaware City Refining Company, LLC
Title V Operating Permit AQM-003/00016 – Parts 1, 2, & 3**

1. The unit is subject to an emission limitation or standard for the applicable regulated air pollutant that is not exempt.
2. The unit uses an add-on control device to achieve compliance with an emission limitation or standard.
3. The unit has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than major source threshold levels.

The applicability determination shows that Tank 206 and Tank 225 associated with the Ethanol Marketing project are not subject to the CAM Rule. The MVR permit is subject to the CAM and a CAM plan for the unit was submitted in March 2014.

Table 1-1: Summary of Incorporation of DE Reg. 1102 Permit Conditions

Permit APC-1995/0471-CONSTRUCTION/OPERATION (A5)(LAER)(MACT)(NSPS) – MVRs
 Permit APC-1980/0868-CONSTRUCTION/OPERATION (A5)(MACT)(VOC RACT) – Tank 206
 Permit APC-1980/0869- CONSTRUCTION/OPERATION (A5)(MACT)(VOC RACT) – Tank 225
 Permits Dated October 19, 2017

Reg. 1102 Permit Condition	Equivalent or Similar Title V Condition, if any	Title V Permit Modification Requested	Comments
General Provisions			
1.1	Condition 2(d) & 2(f)	None	None
1.2	Condition 2(m)	None	None
1.3	Condition 2(m)	None	None
Emission Limitations			
2.1.1	Condition 3 - Table 1 (Part 1) fj.1.i	Revise Emission Standard to be consistent with Reg. 1102 permit	See Attachment 1 - Part 1 Permit Markup
2.1.2	Condition 3 - Table 1 (Part 1) fj.1.i	Revise Emission Standard to be consistent with Reg. 1102 permit	See Attachment 1 - Part 1 Permit Markup
2.1.3	Condition 3 - Table 1 (Part 2) b.5.i	None	None
Operational Limitations			
3.1.1	Condition 3 - Table 1 (Part 1) fd.1.ii, fd.1.v, fd.1.vii, fe.1.iv and fj.1.iv	Revise Operational Limitations to be consistent with Reg. 1102 permit	See Attachment 1 - Part 1 Permit Markup
3.1.2	Condition 3 - Table 1 (Part 1) fd.1.ii, fd.1.v and fd.1.vii	Revise Operational Limitations to be consistent with Reg. 1102 permit	See Attachment 1 - Part 1 Permit Markup
3.2.1	Condition 3 - Table 1 (Part 2) b.5.ii.A.1	Revise Operational Limitations to be consistent with Reg. 1102 permit	See Attachment 1 - Part 2 Permit Markup
3.2.2	Condition 3 - Table 1 (Part 2) b.5.ii.A.2	Revise Operational Limitations to be consistent with Reg. 1102 permit	See Attachment 1 - Part 2 Permit Markup

Table 1-1: Summary of Incorporation of DE Reg. 1102 Permit Conditions

Permit APC-1995/0471-CONSTRUCTION/OPERATION (AS)(LAER)(MACT)(NSPS) – MVRs
 Permit APC-1980/0868-CONSTRUCTION/OPERATION (A5)(MACT)(VOC RACT) – Tank 206
 Permit APC-1980/0869- CONSTRUCTION/OPERATION (A5)(MACT)(VOC RACT) – Tank 225
 Permits Dated October 19, 2017

Reg. 1102 Permit Condition	Equivalent or Similar Title V Condition, if any	Title V Permit Modification Requested	Comments
3.2.3	Condition 3 - Table 1 (Part 2) b.5.ii.B	Revise Operational Limitations to be consistent with Reg. 1102 permit	See Attachment 1 - Part 2 Permit Markup
3.3	None	Revise Operational Limitations to be consistent with Reg. 1102 permit and add Condition 3 - Table 1 (Part 2) b.5.ii.C	See Attachment 1 - Part 2 Permit Markup
Compliance Methodology			
4.1	Condition 3 - Table 1 (Part 1) fd.1.iv and fj.1.vi	None	None
4.2	Condition 3 - Table 1 (Part 1) fd.1.iv.B	None	None
Recordkeeping Requirements			
5.1	Condition 3(b)	None	None
5.2.1	None	Revise Operational Limitations to be consistent with Reg. 1102 permit and add Condition 3 - Table 1 (Part 2) b.5.v.J and Condition 3 - Table 1 (Part 1) fj.1.v.C	See Attachment 1 – Part 1 and Part 2 Permit Markup
5.2.2	None	Revise Operational Limitations to be consistent with Reg. 1102 permit and add Condition 3 - Table 1 (Part 2) b.5.v.K and Condition 3 - Table 1 (Part 1) fj.1.v.D	See Attachment 1 – Part 1 and Part 2 Permit Markup
5.2.3	Condition 3 - Table 1 (Part 1) fd.1.vi and fj.1.v	Revise Record Keeping to be consistent with Reg. 1102 permit	See Attachment 1 - Part 1 Permit Markup

Table 1-1: Summary of Incorporation of DE Reg. 1102 Permit Conditions

Permit APC-1995/0471-CONSTRUCTION/OPERATION (A5)(LAER)(MACT)(N5PS) – MVRs
 Permit APC-1980/0868-CONSTRUCTION/OPERATION (A5)(MACT)(VOC RACT) – Tank 206
 Permit APC-1980/0869- CONSTRUCTION/OPERATION (A5)(MACT)(VOC RACT) – Tank 225
 Permits Dated October 19, 2017

Reg. 1102 Permit Condition	Equivalent or Similar Title V Condition, if any	Title V Permit Modification Requested	Comments
5.2.4	Condition 3 - Table 1 (Part 1) fg.1.iv	None	None
Reporting Requirements			
6.1	Condition 3.c.2.ii.B	None	None
6.2	Condition 3.c.2.ii.C and 3.c.2.II.D	None	None
6.3	Condition 3.c	None	None
Administrative Conditions			
7.1	Condition 2.k	None	None
7.2	Condition 2.m	None	None

Table 1-2: Compliance Assurance Monitoring (CAM) Applicability Determination

EU	Emission Point	Emissions Unit Description	Subject to an CAM Applicable Emission Limitation Standard? (Y/N) [1]										Uses a Control Device? (Y/N, Pollutants) [2]	Uses a Continuous Compliance Method? (Y/N) [3]	Potential to Emit (PTE), TPY												Comments						
			NOx	SO ₂	PM	VOC	CO	Pb	H ₂ S/ TRS/ H ₂ SO ₄	NH ₃	HAPs				NOx	SO ₂	PM	VOC	CO	Pb	H ₂ S	NH ₃	HAPs										
											Major Source Threshold, TPY												100	100	100	100		100	100	100	100	100	N/A
40	Various	Tank 206-TF112	N	N	N	Y	N	N	N	N	N	No	N/A	N/A	N/A	N/A	0.82	N/A	N/A	N/A	N/A	N/A	N/A	Not a CAM unit because the unit does not use a control device to achieve compliance.									
40	Various	Tank 225-TF-133	N	N	N	Y	N	N	N	N	N	No	N/A	N/A	N/A	N/A	0.5	N/A	N/A	N/A	N/A	N/A	N/A	Not a CAM unit because the unit does not use a control device to achieve compliance.									
15	15-1 & 15-2	Marine Vapor Recovery System	CAM applicability and plan submitted with Significant Permit Modification application submitted in March 2014										CAM Applicable for VOC																				

[1] Emissions limitations which were proposed after Nov. 15, 1990 pursuant to section 111 (NSPS) or 112 (NESHAPS) of the Act and are exempt from CAM requirements - 40 CFR 64.2(b)(i)

[2] Unit must use a control device to achieve compliance with any such limitation or standard - 40 CFR 64.2(a)(2)

[3] Emissions limitations for which a permit specifies a continuous compliance method are exempt from CAM requirements - 40 CFR 64.2(a)(vi)

ATTACHMENT 1

Title V Permit Mark-Up

- Incorporation of Regulation 1102 Permits: Ethanol Marketing Project
 - Tank 206
 - Tank 225
 - Marine Vapor Recovery (MVR) System
- Crude Unit NOx CEMS data capture
- Consent Decree Terms:
 - WWTP Oily Water Sewer System
 - Storm water drains identified and marked
 - Benzene/NESHAP laboratory audits
 - LDAR first attempt at repair for valves at 100 ppm
- Correct typo for CCU 1 and 2 – Sulfuric Acid emission limitation
- Update tank sections to reflect the replacement of EPA TANKS 4.09, no longer supported by EPA, with TankESP Pro Version

State of Delaware
Department of Natural Resources and Environmental Control
Division of Air Quality
100 W. Water Street, Suite 6A
Dover, DE 19901

7 DE Admin. Code 1130 (Title V) Operating Permit
Significant Permit Modification
Facility I.D. Number: 1000300016
Permit Number: AQM-003/00016 – Part 1(Renewal 2)(Revision 3)
AQM-003/00016 – Part 2 (Renewal 1)(Revision 3)
AQM-003/00016 – Part 3 (Renewal 2)(Revision 3)

Effective Date: April 12, 2018 Expiration Date: May 27, 2020
Renewal Application Due Date: May 27, 2019

Pursuant to 7 **Del. C.**, Ch 60, Section 6003, 7 **DE Admin. Code** 1102, Section 2.0 and 7 **DE Admin. Code** 1130, Section 7.2, approval by the Department of Natural Resources and Environmental Control ("Department") is hereby granted to operate the emission units listed in Condition 1 of this permit subject to the terms and conditions of this permit.

This approval is granted to:

Permittee/Owner (hereafter referred to as "Company Owner")	Operator (hereafter referred to as "Operator")
Delaware City Refining Company, LLC 4550 Wrangle Hill Road Delaware City, Delaware 19706 Responsible Official: Jeffery Coleman Title: Refinery Manager	Delaware City Refining Company, LLC
Facility Site Location	Facility Mailing Address
Delaware City Refining Company, LLC 4550 Wrangle Hill Road Delaware City, Delaware 19706	Delaware City Refining Company, LLC 4550 Wrangle Hill Road Delaware City, Delaware 19706

The nature of business of the Facility is Petroleum Refining. The Standard Industrial Classification code is 2911. The North American Industry Classification System code is 324110.

Lindsay T. Rennie / 4.12.2018
Engineer
Engineering & Compliance Branch
(302) 323-4542

Angela D. Marconi, P.E., BCEE / 4.12.2018
Program Manager
Engineering & Compliance Branch
(302) 323-4542

Permit: AQM-003/00016 - Part 1 (Renewal 2)(Revision 3)

Permit: AQM-003/00016 - Part 2 (Renewal 1)(Revision 3)

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Delaware City Refining Company

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fb	Emission Unit 40: Refinery Tank Farm Units With External Floating Roofs with Double Seals Subject to 40 CFR part 63, Subpart CC and 40 CFR part 60, Subpart Ka: Tanks 009-TF-400, 166-TF-112, 205-TF-153, 227-TF-400, 261-TF-50, 580-TF-10 (All tanks are Group 1 MACT tanks that are to comply with the provisions of 40 CFR part 63, subpart CC as provided by 63.640(n)(5))	109
fc	Emission Unit 40: Refinery Tank Farm Units With External Floating Roofs with Double and Single Seals Subject to Regulation 24, Section 30 and 40 CFR part 63, Subpart CC: Tanks 001-TF-200, 002-TF-200, 003-TF-200, 004-TF-200, 005-TF-200, 006-TF-200, 007-TF-200, 008-TF-200, 009-TF-400, 10-TF-274, 11-TF-274, 12-TF-274, 044-TF-112, 048-TF-112, 050-TF-78, 051-TF-78, 065-TF-50, 072-TF-50, 073-TF-78, 135-TF-78, 136-TF-78, 137-TF-78, 145-TF-78, 146-TF-78, 147-TF-78, 161-TF-78, 162-TF-78, 163-TF-153, 165-TF-153, 167-TF-50, 181-TF-78, 182-TF-78, 183-TF-153, 185-TF-153, 186-TF-112, 187-TF-50, 203-TF-112, 204-TF-50, 223-TF-112, 224-TF-112, 225-TF-153 , 227-TF-400, 241-TF-50, 242-TF-153, 243-TF-112, 248-TF-200, 262-TF-153, 263-TF-112, 268-TF-200, 281-TF-200, 282-TF-200, 283-TF-200, 284-TF-200, 285-TF-200, 286-TF-200, 560-TF-30, 561-TF-20, 580-TF-10 (Includes Group 1 and Group 2 MACT Tanks as defined in the Semi-Annual MACT-1 SSM reports)	113
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Delaware City Refining Company

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Reference Number	Full Regulation No. 1102 Permit Designation
<u>APC-81/0832</u>	<u>APC-81/0832-OPERATION (Amendment 1)(HON)</u> issued October 23, 1997. Benzene Loading Facility.
<u>APC-81/0833</u>	<u>APC-81/0833-OPERATION</u> issued February 24, 1982. Aromatics Fractionation and Storage Facility.
<u>APC-81/0833(A1)</u>	<u>APC-81/0833-OPERATION (Amendment 1)</u> issued October 13, 2015 for the AFSF as part of the Tier 3 Project.
<u>APC-82/0979</u>	<u>APC-82/0979-OPERATION</u> issued September 16, 1982. Nitrogen Grade Toluene Facility.
<u>APC-81/0802</u>	<u>APC-81/0802-OPERATION</u> issued June 17, 1981. Heater Unit 32-H-101.
<u>APC-81/0805</u>	<u>APC-81/0805-OPERATION</u> issued June 17, 1981. Heater Unit 33-H-1.
<u>APC-81/0806</u>	<u>APC-81/0806-OPERATION</u> issued June 17, 1981. Heater Unit 33-H-2.
<u>APC-81/0822</u>	<u>APC-81/0822-OPERATION (Amendment 2)</u> issued March 8, 2013. Olefins Plant.
<u>APC-81/0808</u>	<u>APC-81/0808-OPERATION (Amendment 1)</u> issued March 8, 2013. Heater Unit 134-H-101.
<u>APC-81/0966</u>	<u>APC-81/0966-OPERATION</u> issued September 9, 1981. Hydrocracker Unit and Process Heaters 36-H-1, 36-H-2, and 36-H-3.
<u>APC-80/0869(A5)</u>	<u>APC-80/0869-OPERATION (Amendment 5)(VOC RACT)(NSPS)</u> issued November 4, 1999. Intermediate Product Tank Farm.
<u>APC-80/0869(A6)</u>	<u>APC-80/0869-OPERATION (Amendment 6)(MACT)(VOC RACT)(NSPS)</u> issued June 22, 2012 for Tanks 47, 166, 20S and 261
<u>APC-80/0869(A7)</u>	<u>APC-80/0869-CONSTRUCTION/OPERATION (Amendment 7)(MACT)(VOC RACT)</u> issued October 19, 2017 for Tank 225 as part of the Ethanol Marketing Project.
<u>APC-80/0870(A3)</u>	<u>APC-80/0870-OPERATION (Amendment 3)(VOC RACT)(NSPS)</u> issued March 29, 2000. Crude Oil Tank Farm.
<u>APC-80/0870(A2)</u>	<u>APC-80/0870-OPERATION (Amendment 2)(VOC RACT)(NSPS)</u> issued October 12, 1994. Crude Oil Tank Farm.
<u>APC-81/0120</u>	<u>APC-81/0120-OPERATION (Amendment 2)(RACT)</u> issued November 6, 1996. Sour Water Treatment Crude Unit.
<u>APC-80/0868</u>	<u>APC-80/0868-OPERATION</u> issued April 30, 1980. Product Tank Farm.
<u>APC-80/0868-C/O</u>	<u>APC-80/0868-CONSTRUCTION/OPERATION (NSPS)(RACT)(MACT)</u> dated March 29, 2006 for the Ethanol Blending Project
<u>APC-80/0868(A3)</u>	<u>APC-80/0868-OPERATION (Amendment 3)(MACT)(VOC RACT)(NSPS)</u> issued June 22, 2012 for Tanks 47, 166, 20S and 261
<u>APC-80/0868(A4)</u>	<u>APC-80/0868-CONSTRUCTION/OPERATION (Amendment 4)</u> issued October 13, 2015 for the RPTF as part of the Tier 3 Project.
<u>APC-80/0868(A5)</u>	<u>APC-80/0868-CONSTRUCTION/OPERATION (Amendment 5)(MACT)(VOC RACT)</u> issued October 19, 2017 for Tank 206 as part of the Ethanol Marketing Project.
<u>APC-91/0553</u>	<u>APC-91/0553-OPERATION (Amendment 1)(LAER)</u> issued April 23, 2013. Ether Plant.
<u>APC-81/0283</u>	<u>APC-81/283 OPERATION</u> issued January 14, 1981 for the Oil Recovery System
<u>APC-81/1008(A3)</u>	<u>APC-81/1008 OPERATION (Amendment 3)(NESHAP)</u> issued October 31, 2000 for the API/CPI Separators
<u>APC-81/1008(A4)</u>	<u>APC-81/1008-CONSTRUCTION/OPERATION (Amendment 4)(NESHAP)</u> issued February 22, 2001 for the API/CPI Separators

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Reference Number	Full Regulation No. 1102 Permit Designation
<u>APC-81/1009(A2)</u>	<u>APC-81/1009 OPERATION (Amendment 2)(NESHAP)</u> issued November 8, 1999 for the Equalization Tanks and Spill Diversion Tank
<u>APC-81/1009</u>	<u>APC-81/1009 OPERATION</u> dated June 17, 1981 for 2 second stage clarifiers and 2 second stage aeration tanks ³
<u>APC-93/0350(A1)</u>	<u>APC-93/0350 CONSTRUCTION/OPERATION (Amendment 1)(NESHAP)</u> issued on June 25, 2001 for the Oily Water Sewer System
<u>APC-94/0710(A1)</u>	<u>APC-94/0710-CONSTRUCTION/OPERATION (Amendment 1)(NESHAP)(NOx RACT)</u> issued October 22, 2012 for the WWTP VCU Fuel Switch Project
<u>APC-95/0862-OI</u>	<u>APC-95/0862-OPERATION (Stage I)</u> issued April 28, 1995 for the Dual point Stage I Vapor Recovery System
<u>APC-95/0863-OII</u>	<u>APC-95/0863-OPERATION (Stage II)</u> issued April 28, 1995 for the Healy Stage II Vapor Recovery System
<u>APC-95/0471(A3)</u>	<u>APC-95/0471-OPERATION (Amendment 3)(LAER)(MACT)(RACT)</u> issued May 31, 2013 for the Marine Vapor Recovery System
<u>APC-95/0471(A4)</u>	<u>APC-95/0471-CONSTRUCTION/OPERATION (Amendment 4)</u> issued October 13, 2015 for the MVRS as part of the Tier 3 Project.
<u>APC-95/0471(A5)</u>	<u>APC-95/0471-CONSTRUCTION/OPERATION (Amendment 5)(LAER)(MACT)(NSPS)</u> issued October 19, 2017 for the MVRS as part of the Ethanol Marketing Project.
<u>APC-81/0828(A2)</u>	<u>APC-81/0828-OPERATION (Amendment 2)(PSD-NSR)</u> issued September 7, 2011 for the Crude Unit
<u>APC-95/0570(A3)</u>	<u>APC-95/0570-OPERATION (Amendment 2)(LAER)(NSPS)</u> issued February 20, 2009, for the Crude Unit Atmospheric heater 21-H-701.
<u>APC-81/0784(A2)</u>	<u>APC-81/0784-CONSTRUCTION (Amendment 1)(NOx RACT)</u> issued February 20, 2009 for the Vacuum Tower Heater
<u>APC-81/0784</u>	<u>APC-81/0784-OPERATION</u> issued June 17, 1981 for the Vacuum Tower Heater
<u>APC-81/0963</u>	<u>APC-81/0963-OPERATION</u> issued August 12, 1981 for the Coker Merox Plant
<u>APC-81/0785</u>	<u>APC-81/0785-OPERATION</u> issued June 17, 1981 for various heaters
<u>APC-81/0829(A8)</u> <u>APC-81/0829(A9)</u>	<u>APC-81/0829-OPERATION (Amendment 8)(PSD-NSR)</u> issued September 7, 2011 for the Fluid Coker Unit, FCU Carbon Monoxide Boiler, Wet Gas Scrubber, and Selective Non-Catalytic Reduction System & <u>APC-81/0829-OPERATION (Amendment 9)(PSD-NSR)</u> for the FCU's Optimized NOx Limits issued September 16, 2014
<u>APC-82/1209(A7)</u>	<u>APC-82/1209-OPERATION (Amendment 7)</u> issued June 14, 2012 for the Petroleum Coke Storage and Handling System
<u>APC-82/0981(A10)</u>	<u>APC-82/0981-OPERATION (Amendment 10) (NSPS)</u> for the FCCU's Optimized NOx Limits issued September 16, 2014
<u>APC-82/0981(A12)</u>	<u>APC-82/0981 – OPERATION (Amendment 12)(NSPS)</u> issued March 23, 2017 for the Fluid Catalytic Cracking Unit (FCCU), FCCU Carbon Monoxide Boiler (COB), FCCU COB Selective Non-Catalytic Reduction (SNCR) System and Wet Gas Scrubber System
<u>APC-81/0827(A1)</u>	<u>APC-81/0827-OPERATION (Amendment 1)(RACT)(NSPS)</u> issued January 30, 1995 for the Alkylation Merox unit-Merox Treater
<u>APC-98/0522(A1)</u>	<u>APC-98/0522-OPERATION (Amendment 1)(NSPS)</u> issued August 15, 2012 for the CHNT Heaters 25-H-401 and 25-H-402
<u>APC-98/0523(A1)</u>	<u>APC-98/0523-OPERATION (Amendment 1)(NSPS)(RACT)(NESHAP)</u> issued August 15, 2012 for the Cracked Naphtha Hydrotreater Unit

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<p>fb. Emission Unit 40: Refinery Tank Farm Units With External Floating Roofs with Double Seals Subject to 40 CFR part 63, Subpart CC and 40 CFR part 60, Subpart Ka: Tanks 009-TF-400, 166-TF-112, 205-TF-153, 227-TF-400, 261-TF-50, 580-TF-10 (All tanks are Group 1 MACT tanks that are to comply with the provisions of 40 CFR part 63, subpart CC as provided by 63.640(n)(5))</p>	<p>of the stored liquid is less than or equal to 4 percent for existing sources or 2 percent for new sources, a record of any data, assumptions, and procedures used to make this determination shall be retained. [Reference: 40 CFR 63.654(i)(1)(iv) dated 8/18/98]</p>	
<p>1. Volatile Organic Compounds (VOC).</p> <p>i. Equipment Standards:</p> <p>A. Each external floating roof shall be equipped with a closure device between the wall of the storage vessel and the roof edge.</p> <p>1. The closure device shall consist of 2 seals, one above the other. The lower seal is the primary seal and the upper seal is the secondary seal.</p> <p>2. The primary seal shall be either a metallic shoe seal or a liquid-mounted seal.</p> <p>3. Both the primary and secondary seals shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as provided by 40 CFR 63.120(b).</p> <p>[Reference: 40 CFR 63.119(c)(1) dated 12/21/2006]</p> <p>B. If the primary seal is a metallic shoe seal, one end of the metallic shoe shall extend into the stored liquid and the other end shall extend a minimum vertical distance of 61 cm above the stored liquid. [Reference: 40 CFR 63.120(b)(5)(i) dated 1/17/1997]</p> <p>C. The accumulated area of gaps between the vessel wall and the primary seal shall not exceed 212 cm²/meter of tank diameter and</p>	<p>iv. Compliance Method:</p> <p>Compliance with the standards and limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements. [Reference: 7 DE Admin. Code 1130 Section 6.3.1, dated 12/11/00]</p> <p>A. Compliance with the Emission Limitation A shall be demonstrated by using EPA's TANKS 4.09 program-TANKESP Pro Version or an updated equivalent methodology using monthly liquid throughput and the monthly average storage temperature. [Reference: APC-80/0868/431]</p> <p>v. Monitoring/Testing:</p> <p>In addition to the requirements of Conditions 3(b)(1)(ii) of this permit, the Company shall:</p> <p>A. The Company shall determine the gap areas and maximum gap widths between the primary seal and the storage vessel wall during hydrostatic testing and at least once every 5 years. [Reference: 40 CFR 63.120(b)(1)(i) dated 1/17/1997]</p> <p>B. The Company shall determine the gap areas and maximum gap widths between the secondary seal and the storage vessel wall at least once every year. [Reference: 40 CFR 63.120(b)(1)(iii) dated 1/17/1997]</p>	<p>vii. Reporting:</p> <p>In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>A. [RESERVED]</p> <p>B. [RESERVED]</p> <p>C. [RESERVED]</p> <p>D. Submit the reports listed below:</p> <p>1. A Notification of Compliance Status report in accordance with §63.654(f). [Reference: 40 CFR 63.654(e)(1) dated 8/18/1998]</p> <p>2. Semiannual Periodic Reports in accordance with §63.654(g)(1) and (3). [Reference: 40 CFR 63.654(e)(1) dated 8/18/1998]</p> <p>3. [RESERVED]</p> <p>4. In the event an out of service tank is being returned to HAP service, the Owner/Operator shall comply with the reporting requirements in §63.654. Reports as specified in 40 CFR Part 63 subpart A. [Reference: 40 CFR 63.654(h) dated 8/18/98]</p> <p>6. Reports of startup, shutdown, and malfunction required by 40 CFR</p>

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Emission Limitations/Standards and/or Operational Limitations/Standards	Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Recordkeeping)	Reporting/Compliance Certification
<p>fc. Emission Unit 40: Refinery Tank Farm Units With External Floating Roofs with Double and Single Seals Subject to 7 DE Admin. Code 1124, Section 30 and 40 CFR Part 63, Subpart CC: Tanks 001-TF-200, 002-TF-200, 003-TF-200, 004-TF-200, 005-TF-200, 006-TF-200, 007-TF-200, 008-TF-200, 009-TF-400, 10-TF-274, 11-TF-274, 12-TF-274, 044-TF-112, 048-TF-112, 050-TF-78, 051-TF-78, 065-TF-50, 072-TF-50, 073-TF-78, 135-TF-78, 136-TF-78, 137-TF-78, 145-TF-78, 146-TF-78, 147-TF-78, 161-TF-78, 162-TF-78, 163-TF-153, 165-TF-153, 167-TF-50, 181-TF-78, 182-TF-78, 183-TF-78, 185-TF-153, 186-TF-112, 187-TF-50, 203-TF-112, 204-TF-50, 223-TF-112, 224-TF-112, 225-TF-112, 226-TF-112, 227-TF-400, 241-TF-50, 242-TF-153, 243-TF-112, 248-TF-200, 262-TF-153, 263-TF-112, 268-TF-200, 281-TF-200, 282-TF-200, 283-TF-200, 284-TF-200, 285-TF-200, 286-TF-200, 580-TF-10 (Includes Group 1 and Group 2 MACT Tanks as defined in the Semi-Annual MACT-1 SSM reports)</p>		

Condition 3 - Table 1 (Specific Requirements)

<p>1. Volatile Organic Compounds (VOC).</p> <p>i. Emission Standards:</p> <p>A. The emissions from Tanks 001-TF-200, 002-TF-200, 003-TF-200, 004-TF-200, 005-TF-200, 006-TF-200, 007-TF-200, 008-TF-200, 9-TF-400, 10-TF-274, 11-TF-274, 12-TF-274, and 281-TF-200 shall not exceed 27 tons of VOCs in any twelve consecutive months. [Reference: APC-80/0870(A3) Cond. 1 and APC-95/0471-C/0(A3) Cond. 2.1.3.3]</p> <p>B. The emissions from Tanks 47-TF-78, 166-TF-112, 205-TF-153, and 261-TF-50 shall not exceed 4.9 tons per 12 month rolling period. [Reference: APC-80/0868]</p> <p>C. The emissions from Tank 243-TF-112 shall not exceed 2.7 tons per 12 month rolling period. [Reference: APC-80/0868(A6)]</p>	<p>iv. Compliance Method:</p> <p>Compliance with the standards and limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements. The Owner/Operator shall also: [Reference: 7 DE Admin. Code 1130 Section 6.3.1, dated 12/11/00]</p> <p>A. Compliance with the Emission Standard shall be demonstrated either by using EPA's TANKS 4.09 program-TankESP Pro Version or an updated equivalent methodology approved by the Department, using monthly liquid throughput and the monthly average storage temperature of each tank. [Reference: APC-80/0868 and 0870]</p>	<p>vii. Reporting:</p> <p>A. For all inspections, provide a 15 day telephone notification to allow the administrator to afford the opportunity to inspect the storage vessel prior to refilling. [Reference: 7 DE Admin. Code 1130 Section 6.1.3.2 dated 12/11/00 and 40 CFR 63.646(f) dated 2/21/97]</p> <p>B. Within 60 days of performing the gap measurements required by 7 DE Admin. Code 1124 section 30.6, submit a report containing:</p> <ol style="list-style-type: none"> 1. The date of measurement. 2. The raw data obtained in the measurement. 3. The calculations described in 7 DE Admin. Code 1124 section 30.6. [Reference: Regulation No. 30 Section 6(a)(3)(ii) dated 12/11/00] <p>C. When seal gap measurements exceed those specified in 7 DE Admin. Code 1124 section 30.6, a report shall be furnished within 60 days of the date of seal gap measurements. The report shall identify the vessel and list each reason why the vessel did not meet the specification of Section 30.6. The report shall also describe the actions necessary to bring the storage tank into compliance with the specification of Section 30.6. [Reference: 7 DE Admin Code 1124 Section 30.6 dated 11/29/94 and 7 DE Admin Code 1130 Section 6.1.3.2 dated 12/11/00]</p> <p>D. The Owner/Operator shall submit the reports listed below for the MACT Tanks: [Reference: 40 CFR 63.654(e) dated 8/18/1998]</p> <ol style="list-style-type: none"> 1. A Notification of Compliance Status report in accordance with 40 CFR 63.654(f); and 2. Periodic Reports in accordance with 40 CFR 63.654(g); and 3. Other reports in accordance with 40 CFR 63.654(h).
<p>ii. Equipment Standards:</p> <p>A. With the exception of Tanks 048-TF-112, 051-TF-78, 225-TF-133, 248-TF-200, 263-TF-112, 268-TF-200, 282-TF-200, 283-TF-200, 284-TF-200, 285-TF-200, and 286-TF-200 the following equipment standards are applicable: [Reference: 7 DE Admin Code 1124, Section 30.c.3.i. dated 11/29/94 and 40 CFR 63.119 and 63.120 dated 1/17/1997]</p> <p>A. The primary mechanical shoe-type seal shall completely cover the annular space between the edge of the floating roof and the tank wall.</p> <p>B. The accumulated area of gaps between the vessel wall and the primary seal shall not exceed 212 cm²/meter of tank diameter and the width of any portion of the gap shall not exceed 3.81 cm. [Reference: 40 CFR 63.120(b)(3) dated 1/17/97]</p> <p>C. The secondary seal shall be installed above the primary seal so that it completely covers the space between the roof edge and the vessel wall. [Reference: 40 CFR 63.(b)(6)(i) dated 1/17/97]</p>	<p>v. Monitoring/Testing:</p> <p>In addition to the requirements of Conditions 3(b)(1)(ii) of this permit, the Company shall:</p> <p>A. Perform semiannual inspections of the floating roofs and associated components detailed in Equipment Standards (E) through (I). [Reference: 7 DE Admin Code 1124 Section 30.4 dated 11/29/94]</p> <p>B. The Owner/Operator shall comply with the Monitoring/Testing requirements of Condition 3 - Table 1(f)(v). [Reference: 40 CFR 63.120(b) dated 1/17/97]</p> <p>vi. Recordkeeping:</p> <p>In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall: [Reference: 7 DE Admin Code 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]</p> <p>A. Keep records describing the results of each seal gap measurement. The records shall include the date of the measurement, the raw data obtained in the measurement, and the calculations. [Reference: 40 CFR 63.64(i) dated 8/18/1998 and 40 CFR 63.123(d) dated 12/23/2004]</p> <p>B. Records of the types of volatile petroleum liquids stored. [Reference: 7 DE Admin Code 1124 sec 30.5.1.1 dated 11/29/94]</p>	

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<p>D. The accumulated area of gaps between the vessel wall and the secondary seal shall not exceed 21.2 cm²/meter of tank diameter and the width of any portion of the gap shall not exceed 1.27cm. [Reference: 40 CFR 63.120(b)(4) dated 1/17/97]</p> <p>E. There shall be no holes tears or other openings in either the shoe, seal fabric or seal envelope of both primary and secondary seals. [Reference: 7 DE Admin Code 1124 Section 30.3.2.1 dated 11/29/94 and 40 CFR 63.120(b)(5)(i) and (6)(i) dated 1/17/97]</p> <p>F. All openings in the external floating roof, except for automatic bleeder vents, rim space vents and leg sleeves are equipped with:</p> <ol style="list-style-type: none"> 1. Covers, seals or lids in the closed position except when the openings are in actual use. 2. Projections into the tank that remain below the liquid surface at all times. [Reference: 7 DE Admin Code 1124 Section 30.3.3 dated 11/29/94] 3. Automatic bleeder vents are closed at all times except when the roof is being floated off or being landed on the roof leg supports. [Reference: 7 DE Admin Code 1124, Section 30.c.4, dated 11/29/94 and 40 CFR 63.119(c)(ii) dated 1/17/1997] 4. Rim space vents are to be set to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting. [Reference: 7 DE Admin Code 1124, Section 30.3.5, dated 11/29/94] 5. Emergency roof drains are provided with slotted membrane fabric covers or equivalent covers that cover at least 90 percent of the area of the opening. [Reference: 7 DE Admin Code 1124, Section 30.c.6, dated 11/29/94 40 CFR 63.119(c)(2)(v) dated 1/17/1997] 	<p>C. Records of the maximum true vapor pressure of the liquid as stored. [Reference: 7 DE Admin Code 1124 sec 30(e)(1)(i) dated 11/29/94]</p> <p>D. Records of the semiannual inspections required by Monitoring/Testing (A). [Reference: 7 DE Admin Code 1124 sec 30(e)(1)(iii) dated 11/29/94]</p> <p>E. For tanks containing liquid with a maximum true vapor pressure less than 1.5 psia but greater than 1.0 psia, the following records shall be kept:</p> <ol style="list-style-type: none"> 1. Average monthly storage temperature; 2. Type of liquid stored; and 3. Maximum true vapor pressure. [Reference: 7 DE Admin Code 1124 sec 30.5.2 dated 11/29/94] <p>F. For Tanks 156-TF-112, 205-TF-153 and 261-TF-50, the rolling 12 month VOC emissions. [Reference: APC-80/0868]</p>	<p>4. In the event an out of service tank is being returned to HAP service, the Owner/Operator shall comply with the reporting requirements in 40 CFR 63.654.</p> <p>viii. Certification: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>

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Emission Limitations /Standards and/or Operational Limitations /Standards	Condition 3 - Table 1 (Specific Requirements) Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Recordkeeping)	Reporting/Compliance Certification
<p>iii. Operational Limitations:</p> <p>A. [RESERVED]</p> <p>B. [RESERVED]</p> <p>C. [RESERVED]</p> <p>D. The practice of pumping of crude oil from one tank to another shall be minimized in an effort to control the emission of VOCs. [Reference: APC-80/0870(A3) Cond. 4]</p> <p>E. Tanks 48-TF-112 and 51-TF-78 shall contain only petroleum liquids with a maximum true vapor pressure of less than 1.0 psia (7.0 kPa). If the maximum true vapor pressure of greater than 1.0 psia (7.0 kPa), then the tank(s) shall comply with Regulation No. 1124 Section 30 as applicable. [Reference: APC-80/0869(A5) Cond. No. 7]</p> <p>F. Tanks 248-TF-200, 263-TF-112, 268-TF-200, 282-TF-200, 283-TF-200, 284-TF-200, 285-TF-200, and 286-TF-200 shall only be allowed to store petroleum liquids whose maximum true vapor pressure does not exceed 1.5 psia. [Reference: 40 CFR 63.641 dated 8/18/98]</p> <p>G. [RESERVED]</p> <p>H. The external floating roof shall be floating on the liquid surface at all times except when the floating roof must be supported by the leg supports except during the initial fill, after the vessel has been completely emptied and degassed, and when the vessel is completely emptied before being subsequently refilled. [Reference: 40 CFR 63.119(C)(3) dated 12/21/2006]</p> <p>I. When the floating roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as practical. [Reference: 40 CFR 63.119(C)(4) dated 12/21/2006]</p>		

Condition 3 - Table 1 (Specific Requirements)

Emission Limitations/Standards and/or Operational Limitations/Standards	Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Recordkeeping)	Reporting/Compliance Certification
<p>J. Tanks 166-TF-112, 205-TF-153 and 261-TF-50 shall only be allowed to store petroleum liquids whose maximum true vapor pressure does not exceed 76.6 kilopascals (11.1 psia). [Reference: APC-80/0888]</p>		
<p>fd. Emissions Unit 40 - Refinery Tank Farm Units With Fixed Roofs Subject to 40 CFR Part 63 - Subpart CC, 40 CFR Part 60 - Subpart Kb and Regulation 1124, Section 31: Tanks 71-TF-28, 78-TF-78, 206-TF-112, 225-TF-133, 470-TF-50 (Tank 71-TF-28 is a Group 1 MACT Tank and Tank 78-TF-78 is a Group 2 MACT Tank) Tanks 71-TF-28 and 470-TF-50 are fixed roof tanks with internal floating roofs to comply with the provisions of 40 CFR Part 60, Subpart Kb except as provided for in paragraphs 63.640(n)(8)(i) through 63.640(n)(8)(vi).</p>		
<p>1. Volatile Organic Compounds (VOC).</p> <p>i. Emission Standard: VOC emissions from Tank 470-TF-50 shall not exceed 0.9 tons in any rolling twelve month period. [Reference: 61/0120/421]</p> <p>ii. Operational Limitations for Tanks 71-TF-28, 206-TF-112, 225-TF-133 and 470-TF-50: A. The internal floating roofs shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the surface of the liquid at all times, except during initial fill and during those intervals when the tank is completely emptied or subsequently emptied and refilled. The process of filling emptying or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. [Reference: 40 CFR 60.112b(a)(1)(i) dated 10/8/97]</p> <p>B. Each internal floating roof shall be equipped with a mechanical shoe seal. A mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular</p>	<p>iv. Compliance Method: A. Compliance with the Emission Standard shall be based on a maximum of 270 equivalent turnovers [Reference: 7 DE Admin Code 1130 Section 6.1.3.2 dated 12/11/00] B. Compliance with the Operational Limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements. [Reference: 7 DE Admin. Code 1130 Section 6.3.1, dated 12/11/00]</p> <p>v. Monitoring/Testing In addition to the requirements of Conditions 3(b)(1)(ii) of this permit, the Owner/Operator shall: A. For Tanks 71-TF-28, Tank 206-TF-112 and 470-TF-50: Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the owner or operator shall repair the items before filling the storage vessel. [Reference: 40 CFR 60.113b(a)(1) dated 8/11/89] B. For tanks equipped with a single seal system 1. Visually inspect the internal floating roof and the primary seal through manholes and roof hatches on the fixed roof at least once</p>	<p>vii. Reporting: In addition to Condition 3(c)(2) of this permit, the Owner/Operator shall submit the following reports: A. If any of the conditions described in Monitoring Testing requirement (B)(3) are detected during the inspections required by Monitoring/Testing requirement (B), a report shall be furnished to the Department within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. [Reference: 40 CFR 60.115b(a) dated 8/11/89] B. If an extension is utilized in accordance with Monitoring/Testing requirement (C) of this section, the owner or operator shall, in the next periodic report required by 40 CFR Part 63 Subpart CC, identify the vessel, provide the information listed in Monitoring/Testing requirement B, and describe the nature and date of the repair made or provide the date the storage vessel was emptied. [Reference: 40 CFR 63.640(n)(8)(iv) dated 5/25/2001] C. Notify the Department in writing at least 30 days prior to the filling or refilling of each</p>

Condition 3 - Table 1 (Specific Requirements)

Emission Limitations/Standards and/or Operational Limitations/Standards	Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Recordkeeping)	Reporting/Compliance Certification
<p>space between the metal sheet and the floating roof. [Reference: 40 CFR 60.112b(a)(1)(ii) dated 10/8/97]</p> <p>C. Each opening in the internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface. [Reference: 40 CFR 60.112b(a)(1)(iii) dated 10/8/97]</p> <p>D. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, and stub drains is to be equipped with a cover or lid which is to be in a closed position at all times except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use. [Reference: 40 CFR 60.112b(a)(1)(iv) dated 10/8/97 and 7 DE Admin Code 1124 Section 31.3.3.1 dated 11/29/94]</p> <p>E. Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the leg supports. [Reference: 40 CFR 60.112b(a)(1)(v) dated 10/8/97 and 7 DE Admin Code 1124 Section 31.3.3.2 dated 11/29/94]</p> <p>F. The tank shall be maintained such that there are no visible holes, tears, or other openings in the seal or any seal fabric or materials. [Reference: 7 DE Admin Code 1124 Section 31.3.2 dated 11/29/94]</p> <p>G. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90</p>	<p>every 12 months after initial fill. [Reference 40 CFR 60.113b(a)(2) dated 8/11/89]</p> <p>2. Visually inspect the internal floating roof, the primary seal, gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed and in no event shall inspections be conducted at intervals greater than 10 years. [Reference 40 CFR 60.113b(a)(4) dated 8/11/89].</p> <p>C. For tanks equipped with a double seal system:</p> <ol style="list-style-type: none"> 1. Visually inspect the internal floating roof and the secondary seal through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. [Reference 40 CFR 60.113b(a)(2) dated 8/11/89] 2. Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed and at least every 5 years. [Reference 40 CFR 60.113b(a)(4) dated 8/11/89] <p>D. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal (if any) has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph (B) and (C) exist before refilling the storage vessel with VOL. [Reference: 40 CFR 60.113b(a)(4) dated 8/11/89 and 7 DE Admin Code 1124 Section 31(2)(1)(ii) & (d)(2)(ii) dated 11/29/94]</p> <p>E. If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, or</p>	<p>storage vessel for which an inspection is required by Monitoring/Testing requirements (A) & (D) to afford the Department the opportunity to have an observer present. If the inspection required by Monitoring/Testing requirement (D) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, the owner or operator shall notify the Department at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Department at least 7 days prior to the refilling. [Reference: 40 CFR 60.113b(a)(5) dated 8/11/89]</p> <p>D. The Owner/Operator may submit the inspection reports required by Reporting requirement (A) as part of the periodic reports required by 40 CFR Part 63 Subpart CC, rather than within the 30-day period specified in 40 CFR 60.115b(a). [Reference: 40 CFR 63.640(n)(8)(v)]</p> <p>viii. Certification: None in addition to those listed in Condition 3(c)(3) of this permit.</p>

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Condition 3 - Table 1 (Specific Requirements)

Emission Limitations/Standards and/or Operational Limitations/Standards	Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Recordkeeping)	Reporting/Compliance Certification
<p>percent of the opening. [Reference: 40 CFR 60.112b(a)(1)(vi)] dated 10/8/97]</p> <p>H. Each penetration of the internal floating roof that allows for passage of a column supporting the roof shall have a flexible fabric sleeve or a gasketed sliding cover. [Reference: 40 CFR 60.112b(a)(1)(viii)] dated 10/8/97]</p> <p>I. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover. [Reference: 40 CFR 60.112b(a)(1)(ix)] dated 10/8/97]</p> <p>iii. Operational Limitation for Tank 78-TC-78: The maximum true vapor pressure of the stored liquid shall not equal or exceed 0.75 psia. [Reference: 40 CFR 60.112b(a) dated 8/11/89]</p>	<p>there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the owner or operator shall repair the items or empty and remove the storage vessel from service within 45 days. [Reference: 40 CFR 60.113b(a)(2) dated 8/11/89]</p> <p>F. If a failure is detected during the inspections and the vessel cannot be repaired within 45 days and the vessel cannot be emptied within 45 days, the owner or operator may utilize up to two extensions of up to 30 additional calendar days each. The owner or operator is not required to provide a request for the extension to the Department. [Reference: 40 CFR 63.640(n)(8)(iii)] dated 5/25/2001]</p> <p>G. If the owner or operator determines that it is unsafe to perform the tank inspections because the roof appears to be structurally unsound and poses an imminent danger to inspecting personnel, the owner or operator shall comply with the requirements in either 40 CFR 63.120(b)(7)(i) or 40 CFR 63.120(b)(7)(ii) of 40 CFR Part 63 Subpart G. [Reference: 40 CFR 63.640(n)(8)(ii)] dated 5/25/2001]</p> <p>For Tank 470-TF-50:</p> <p>H. Monitor the equivalent turnovers of Tank 470-TF-50.</p>	
<p>vi. Record Keeping:</p> <p>In addition to the requirements of Conditions 3(b)(1)(i) and 3(b)(2) of this permit, the Owner/Operator shall maintain the following records:</p> <p>A. Rolling twelve month VOC emissions from Tank 470-TF-50 based on equivalent turnovers calculated quarterly. [Reference: APC-81/0120(A2)]</p> <p>B. Records of all inspections performed as required by the Monitoring/Testing</p>		

Condition 3 - Table 1 (Specific Requirements)

Emission Limitations/Standards and/or Operational Limitations/Standards	Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Recordkeeping)	Reporting/Compliance Certification
	<p>requirements. Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment. [Reference 40 CFR 60.1150(a) dated 8/11/89 and 7 DE Admin Code 1124 Section 31.5.1.3 dated 11/29/94]</p> <p>C. Records of the type of VOL stored and the maximum true vapor pressure of that VOL during the respective storage period. [Reference: 40 CFR 60.1160(c) dated 10/15/03 and 7 DE Admin Code 1124 Section 31.5.1.1 & 31.5.1.2 & 5.2.2 & 5.2.3 dated 11/29/94]</p> <p>D. Records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. [Reference 40 CFR 60.1160(b) dated 10/15/2003]</p> <p>E. For Tank 78-TC-78, records of the average monthly storage temperature. [Reference 7 DE Admin Code 1124 Section 31.5.2.1 dated 11/29/94]</p>	
<p>fe.</p> <p>Emissions Unit 40: Refinery Tank Farm Units With Fixed Roofs Subject to 40 CFR part 63, Subpart CC and 40 CFR part 60, Subpart Ka: Tanks 60-TF-28, 61-TF-28, 471-TF-28, 581-TF-28, 581-TF-10, 582-TF-4, 583-TF-4, 584-TF-112 (Tanks 60-TF-28 and 61-TF-28 are Group 1 MACT Tanks that are to comply with the provisions of 40 CFR part 63, subpart CC as provided by 63.640(n)(5); Tank 581-TF-10 stores methanol and is subject to HON Requirements)</p>		
<p>1. Volatile Organic Compounds (VOC).</p> <p>i. Emission Standard for Tank 471-TF-28: VOC emissions from Tank 471-TF-28 shall not exceed 0.045 ton in any rolling twelve month period. [Reference: APC-81/0120]</p> <p>ii. Operational Limitations:</p> <p>A. The internal floating roofs shall rest on the surface of the liquid at all times except during the following periods: (1) During the initial fill; (2) After the vessel has been completely emptied and degassed; (3) When</p>	<p>iii. Compliance Method:</p> <p>A. Compliance with the standards and limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements. [Reference: 7 DE Admin Code 1130 Section 6.3.1, dated 12/11/00]</p> <p>B. Compliance with Operational Limitations (A) and (B) shall be demonstrated by record keeping. [Reference: 7 DE Admin Code 1130 Section 6.1.3.1.2 dated 12/11/00]</p> <p>C. [RESERVED]</p> <p>D. Compliance with Operational Limitation (D) shall be demonstrated by the proper operation</p>	<p>vi. Reporting:</p> <p>In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>A. If any of the conditions described in 40 CFR 60.112a(a)(2) are detected during the annual inspection, a report shall be furnished to the Administrator within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel</p>

Condition 3 - Table 1 (Specific Requirements)

Emission Limitations/Standards and/or Operational Limitations/Standards <i>(Reference: 40 CFR Part 63, Subpart CC, Section 63.640(h)(4) dated 6/12/1996)</i>	Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Recordkeeping)	Reporting/Compliance Certification
<p>ff. Emissions Unit 40: Refinery Tank Farm Units With Fixed Roofs Subject to Regulation 1124, Section 31 and 40 CFR Part 63, Subpart CC: Tanks 045-TC-153, 062-TC-28, 066-TC-112, 075-TC-78, 076-TC-78, 077-TC-78, 078-TC-78, 139-TC-50, 149-TC-50, 150-TC-78, 244-TC-78, 245-TC-78, 246-TC-78, 264-TC-78, 265-TC-78, 266-TC-78, 390-TC-M, 405-TC-28, 406-TC-28, 408-TC-28, 441-TC-M, 442-TC-M, 443-TC-M, 444-TC-M, 445-TC-M, 446-TC-M, 447-TC-M, 482-TC-M, 581-TC-10, 060-TF-28, 061-TF-28, 071-TF-28, 202-TF-50, 470-TF-50, 471-TF-50, 582-TF-4, 583-TF-4, 584-TF-112. Tanks 047-TF-78, 60-TF-28, 61-TF-28 and 71-TF-28 470-TF-50, 471-TF-50, 582-TF-4, 583-TF-4 and 584-TF-4 are not Subject to MACT Requirements; all other Tanks are MACT Tanks. Tanks 571-TC-5 and 572-TC-5 are also subject to 40 CFR Subpart K.</p>		
<p>1. Volatile Organic Compounds (VOC).</p> <p>i. Equipment Standard for Tanks 047-TF-78, 060-TF-28, 061-TF-28, 071-TF-28, 470-TF-50, 471-TF-28, 582-TF-4, 583-TF-4, 584-TF-112: The internal floating roof shall be equipped with a closure seal or seals to close the space between the roof edge and tank wall. <i>(Reference: 7 DE Admin Code 1124, Section 31.c.1.i. dated 11/29/94)</i></p> <p>ii. Operational Limitations for Tanks 047-TF-78, 060-TF-28, 061-TF-28, 071-TF-28, 202-TF-50, 470-TF-50, 471-TF-28, 582-TF-4, 583-TF-4, 584-TF-112: A. The tank is maintained such that there are no visible holes, tears, or other openings in the seal or any seal fabric or materials. <i>(Reference: 7 DE Admin Code 1124, Section 31.c.2. dated 11/29/94)</i> B. All openings, except stub drains, are equipped with covers, lids, or seals such that: <i>(Reference: 7 DE Admin Code 1124, Section 31.c.3 dated 11/29/94)</i> 1. The cover, lid, or seal is in the closed position at all times except when in actual use.</p>	<p>vi. Compliance Method: A. Compliance with the standards and limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements and the following requirements: <i>(Reference: 7 DE Admin. Code 1130 Section 6.3.1, dated 12/11/00)</i> B. Compliance with Tank 047-TF-78's Emission Limitation in section (v) shall be demonstrated by using EPA's Tanks 4.09 Program TankESP Pro Version or an updated equivalent methodology approved by the Department, using monthly liquid throughput and the monthly average storage temperature. <i>(Reference: APC-80/0869(A6) Cond. No. 4.3)</i> Monitoring/Testing: A. The Owner/Operator shall carry out the following inspections for tanks equipped with a single seal system: 1. Visually inspect the internal floating roof and its closure seal or seals through roof hatches at least once every 12 months. 2. Perform a complete inspection of any cover and single seal whenever the tank is emptied for non-operational reasons or at least every 10 years, whichever is more frequent.</p>	<p>ix. Reporting: In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(i), and 3(c)(2) of this permit, the Company shall: <i>(Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00)</i> A. If any of the conditions described in 7 DE Admin Code 1124, Section 31.3 are detected during the annual inspection, a report shall be furnished to the Administrator within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. <i>(Reference: 7 DE Admin Code 1130 Section 6.1.3.2 dated 12/11/00)</i> B. [RESERVED] C. The reports listed below for the MACT Tanks: <i>(Reference: 40 CFR 63.654(e) dated 8/18/1998)</i> 1. A Notification of Compliance Status report as described in 40 CFR 63.654(f); 2. Periodic Reports as described in 40 CFR 63.654(g); and</p>

Condition 3 - Table 1 (Specific Requirements)

Emission Limitations/Standards and/or Operational Limitations/Standards	Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Recordkeeping)	Reporting/Compliance Certification
<p>28 shall be considered a necessary part of acceptable storage tank operation in accordance with the Notice of Conciliation Proceedings and Penalty dated February 10, 1989 signed by Acting Secretary John Hughes for the Department, R.G. Soelkne for Star Enterprise and Robert A. Cap for Texaco Refining and Marketing, Inc. [Reference: Star Enterprise's "Carbon Canister Monitoring at Offtest and Sour Water Tanks" submitted as Attachment "A" of Permit: APC-81/01120]</p> <p>H. Each tank shall be checked for the presence of liquid, vapor, or odor outside of the tank. Tanks that have a mixer (or transfer) pump(s), shall also be checked. [Reference: APC-81/01120]</p>		
fh. Reserved (formerly Process Heater 40-H-1) (The unit has been demolished).		
fi. Reserved Emissions Unit 40: (formerly Frozen Earth Storage System Flare)		Emission Point 40-1. This emission unit has been decommissioned.
fj. Emission Unit 40 – Ethanol Blending Project with a fixed roof tank equipped with an internal floating roof (Tank 206-TF-112 and 225-TF-133) and ancillary equipment.		
<p>1. Volatile Organic Compounds (VOC):</p> <p>i. Emission Limitations: VOC emissions from the Ethanol project shall not exceed 0.59 ton on a rolling 12-month basis, inclusive of 0.38-0.82 tons on a rolling 12-month basis from Tank 206-TF-112 and 0.50 tons on a rolling 12-month basis from Tank 225-TF-133. 0.21 ton of fugitive emissions from new components installed at the refinery for purposes of the Ethanol Blending Project. [Reference: APC-80/0868-C/D/A5] Cond. No. 2.1.1 and 2.1.2]</p> <p>ii. Emission Standard:</p>	<p>iv. Compliance Method: A. Compliance with the emission limitation shall be demonstrated by using EPA's Tanks Version 4.09 or a Department-approved method. TanksESP Pro Version or an updated equivalent methodology approved by the Department to estimate emissions from Tank 206-TF-112 and Tank 225-TF-133 and the results of the quarterly LDAR monitoring program using a Department approved method. [Reference: APC-80/0868-C/D Cond. No. 4.1]</p> <p>B. Compliance with the Emission Standard for new components in light liquid HAP service shall be based on compliance with the standards in 40 CFR</p>	<p>vi. Reporting: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>vii. Certification Requirement: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>

Condition 3 - Table 1 (Specific Requirements)

Emission Limitations/Standards and/or Operational Limitations/Standards	Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Recordkeeping)	Reporting/Compliance Certification
<p>The leak detection and repair requirements to control fugitive VOC emissions from the Ethanol Project shall be in accordance with the requirements in 40 CFR 60, Subpart GGG for new and existing components in light liquid service and in accordance with 40 CFR Part 63 Subpart CC for new and existing components in light liquid Hazardous Air Pollutant (HAP) service. The leak detection and repair requirements to control fugitive emissions from the Ethanol Project shall be in accordance with the Consent Decree for both new and existing components in light liquid service. Applicable requirements are detailed in Permit: AOM-003/00016 - Part 2, Condition 3 - Table 1, in the section "Facility Wide Requirements for Fugitive VOC Emissions".</p> <p>[Reference: APC-80/0868-C/Q Cond. No. 2.1.2]</p>	<p>63.648. Compliance with the standards in 40 CFR 60, Subpart GGG shall be based on the test methods and procedures in 40 CFR 60.592. Applicable requirements are detailed in Permit: AOM-003/00016 - Part 2, Condition 3 - Table 1, in the section "Facility Wide Requirements for Fugitive VOC Emissions".</p> <p>C. Compliance with the Operational Standards shall be based on the testing procedures in 40 CFR Part 115a.</p> <p>v. Record keeping: In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall: [Reference: 7 DE Admin Code 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]</p> <p>A. Results of the rolling 12 month VOC emissions comprised of working and breathing losses from Tank 206-TF-112 and Tank 225-TF-133 and LDAR monitoring program pursuant to 40 CFR 60, Subpart GGG for existing components in light liquid service and in accordance with 40 CFR 63, Subpart CC for new components in light liquid service. Applicable requirements are detailed in Permit: AOM-003/00016 - Part 2, Condition 3 - Table 1, in the section "Facility Wide Requirements for Fugitive VOC Emissions".</p> <p>B. Results of the monitoring and testing required by Compliance Method C above.</p> <p>[Reference: APC-80/0868-C/Q Cond. No. 5]</p> <p>C. Rolling 12 month throughput at Tank 206-TF-112.</p> <p>D. Rolling 12 month throughput at Tank 225-TF-133.</p>	
<p>iii. Operational Standards for Tank 206-TF-112 and Tank 225-TF-133, a fixed roof tank with an internal floating type cover equipped with a continuous closure device between the tank wall and the cover edge:</p> <p>A. The cover is to be floating at all times, (i.e., off the leg supports) except during initial fill and when the tank is completely emptied and subsequently refilled. The process of emptying and refilling when the cover is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible.</p> <p>B. Each opening in the cover except for automatic bleeder vents and the rim space vents is to provide a projection below the liquid surface. Each opening in the cover except for automatic bleeder vents, rim space vents, stub drains and leg sleeves is to be equipped with a cover, seal, or lid which is to be maintained in a closed position at all times (i.e., no visible gap) except</p>		

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Condition 3 – Table 1 (Specific Requirements)

Emission Limitations/Standards and/or Operational Limitations/Standards	Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Recordkeeping)	Reporting/Compliance Certification
<p>when the device is in actual use. Automatic bleeder vents are to be closed at all times when the cover is floating except when the cover is being floated off or is being landed on the leg supports. Rim vents are to be set to open only when the cover is being floated off the leg supports or at the manufacturer's recommended setting.</p> <p><i>[Reference: APC-80/0858-C/QO Cond. No. 3.1 and 40 CFR Part 60.112a(a)(2) dated 7/1/07]</i></p>		
<p>g. Emissions Unit 43: Ether Plant Cooling Tower Fugitive VOC and PM10/PM2.5 Emissions; Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries; National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries; 40 CFR Part 63 Subpart CC Compliance through Standards of Performance for Equipment Leaks of VOC in SOCMIL; Subpart VV and Facility-Wide Standards of Performance for Equipment Leaks of VOC in SOCMIL.</p>		
<p>This unit has only fugitive emissions. Applicable requirements are detailed in Permit: AQM-003/00016 – Part 2, Condition 3 – Table 1, in the section "Facility Wide Requirements for Fugitive VOC Emissions".</p> <p>1. Volatile Organic Compounds (VOC)/(HAP):</p> <p>i. Emissions Standard: <i>[Reference APC-91/0553(41)]</i> VOC emissions shall not exceed 5.5 TPY.</p> <p>ii. Operational Limitation: <i>[Reference APC-91/0553(41)]</i> The Company shall comply with the MACT Heat Exchanger Leak Detection Requirements in 40 CFR 63.654.</p>	<p>iii. Compliance Method: <i>[Reference APC-91/0553(41)]</i></p> <p>A. The VOC concentration in the cooling water shall be obtained in accordance with the procedures in 40 CFR 63.654(c)(1) using a method approved by the department.</p> <p>B. Compliance with the MACT Heat Exchanger Leak Detection Requirements shall be based on information available to the Department concerning the Company's actions with respect to such events and shall include the Department's review of all available facts and circumstances including, but not limited to, monitoring results, opacity observations, review of operating and maintenance procedures and inspection of the source.</p> <p>iv. Monitoring/Testing: <i>[Reference APC-91/0553(41)]</i></p> <p>A. To determine the cooling water VOC concentration, samples shall be taken at the entrance and exit of the cooling tower and at the point of makeup water addition.</p>	<p>vi. Reporting Requirement: In addition to those required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. <i>[Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p> <p>A. Reporting requirements in 40 CFR 63.655.</p> <p>vii. Certification Requirement: That required by Condition 3(c)(3) of this permit. <i>[Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p>

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Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Condition 3 - Table 1 (Specific Requirements) Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
<p>aa. Emission Units No. 10: Wastewater Treatment Plant (WWTP) – Oily Sewer System</p> <p>1. Volatile Organic Compounds (VOC):</p> <p>i. Emission Standard:</p> <p>A. VOC emissions shall not exceed 0.26 tons in any twelve consecutive months. [Reference: APC-93/0350 (41) and 40 CFR 60.692-5 dated 11/23/1988]</p> <p>B. Benzene emissions shall not exceed 0.03 tons in any twelve consecutive months. [Reference: APC-93/0350 (41)]</p> <p>ii. Operational Limitations: [Reference: APC-93/0350 (41)]</p> <p>A. Except as provided in Operational Limitation (E) the Owner/Operator shall meet the following standards for each individual drain system in which waste is placed in accordance with §61.342(c)(1)(ii):</p> <p>1. The Owner/Operator shall operate and maintain on each drain system opening a cover and closed-vent system that routes all organic vapors vented from the drain system to a control device.</p> <p>2. The cover shall meet the following requirements:</p> <p>i. The cover and all openings (e.g., access hatches, sampling ports) shall be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv</p>	<p>iii. Compliance Method:</p> <p>A. Compliance with Emission Standards (A) and (B) and Operational Limitation (F) (2) shall be based on Monitoring/Testing.</p> <p>B. Alternately, the Owner/Operator may analyze the daily monitoring data to establish a carbon canister change out schedule so that the carbon in each carbon adsorption location is replaced with fresh carbon at a regular predetermined time interval that is less than the carbon replacement interval that is determined by the maximum design flow rate and either the organic concentration or the benzene concentration in the gas stream vented to the carbon adsorption system. The Owner/Operator shall obtain the Department's written approval prior to implementing any such replacement schedule.</p> <p>C. Compliance with Operational Limitation (A) shall be based on Monitoring/Testing.</p> <p>D. Compliance with operational limitation (B), (C), (D), (E), (F)(1) and (F)(3) shall be based on recordkeeping.</p> <p>iv. Monitoring/Testing</p> <p>The Owner/Operator shall comply with the following monitoring/testing requirements: [Reference: APC-93/0350 (41)]</p> <p>A. The carbon adsorbers shall be monitored daily in accordance with the monitoring protocol in Attachment "D" of this permit.</p>	<p>vi. Reporting:</p> <p>In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>A. Submit to the Department copies of the Quarterly and Annual reports sent to the US EPA in accordance with the requirements of 40 CFR Part 61, Subpart FF.</p> <p>B. [RESERVED]</p> <p>C. [RESERVED]</p> <p>D. [RESERVED]</p> <p>E. [RESERVED]</p> <p>vii. Certification:</p> <p>That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>

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<p>above background, initially and thereafter at least once per year by the methods specified in §61.355(h).</p> <p>ii. Each opening shall be maintained in a closed, sealed position (e.g., covered by a lid that is gasketed and latched) at all times that waste is in the drain system except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair.</p> <p>iii. If the cover and closed-vent system operate such that the individual drain system is maintained at a pressure less than atmospheric pressure, then paragraph (A)(2)(ii) does not apply to any opening that meets all of the following conditions:</p> <p>A. The purpose of the opening is to provide dilution air to reduce the explosion hazard;</p> <p>B. The opening is designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined</p>	<p>and by replacing the carbon immediately upon breakthrough. For the purpose of this paragraph, "breakthrough" is defined as any reading of 50 ppm volatile organic compounds measured after the first canister at each location, and "immediately" shall mean 8 hours for canisters between 55 gallons and 20,000 pounds and 48 hours for canisters greater than 20,000 pounds. Attachment "D" to this permit specifies the location and size of each canister set.</p> <p>B. The Owner/Operator shall conduct periodic visual inspections in accordance with Section 61.346(a)(2). [Reference: 40 CFR 61.346 dated 1/7/93]</p> <p>C. The Owner/Operator shall annually monitor the system for no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background using the methods specified in Section 61.355(h). [Reference: 40 CFR 61.346 dated 1/7/93]</p> <p>D. Conduct laboratory audits of all laboratories that perform analysis of benzene NESHAP samples every two years or prior to using a new lab for analysis of benzene samples.</p> <p>E. Identify and mark all area drains that are storm water drains.</p> <p>v. Recordkeeping: The following records shall be maintained in accordance with Condition 3(b): [Reference: APC-93/0950/41/]</p>	

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<p>initially and thereafter at least once per year by the methods specified in § 61.355(h); and</p> <p>C. The pressure is monitored continuously to ensure that the pressure in the individual drain system remains below atmospheric pressure.</p> <p>B. The closed-vent system and control device shall be designed and operated in accordance with §61.349.</p> <p>C. Each cover seal, access hatch, and all other openings shall be checked by visual inspection initially and quarterly thereafter to ensure that no cracks or gaps occur and that access hatches and other openings are closed and gasketed properly. Except as provided in §61.350, when a broken seal or gasket or other problem is identified, or when detectable emissions are measured, first efforts at repair shall be made as soon as practicable, but not later than 15 calendar days after identification.</p> <p>E. As an alternative to complying with Operational Limitations (A) through (D), the Owner/Operator may elect</p>	<p>A. Engineering design documentation for the carbon canister control devices installed on the OWS system. The documentation shall be retained for the life of the control equipment.</p> <p>B. A statement signed and dated by the owner or operator certifying that the closed-vent systems and control device are designed to operate at the documented performance level when the waste management unit vented to the control devices are or would be operating at the highest load or capacity expected to occur. The documentation shall be retained for the life of the control equipment.</p> <p>C. If engineering calculations are used to determine control device performance in accordance with § 61.349(c), then a design analysis for the control device that includes for example, specifications, drawings, schematics, and piping and instrumentation diagrams prepared by the owner or operator, or the control device manufacturer or vendor that describe the control device design based on acceptable engineering texts. The design analysis shall address the following vent stream characteristics and control device operating parameters for the carbon adsorption system: the design analysis shall consider the vent stream composition, constituent concentration, flow rate, relative humidity, and temperature. The design analysis</p>	

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<p>to comply with the following requirements:</p> <ol style="list-style-type: none"> 1. Each drain shall be equipped with water seal controls or a tightly sealed cap or plug. 2. Each junction box shall be equipped With a cover and may have a vent pipe. The vent pipe shall be at least 90 cm (3 ft) in length and shall not exceed 10.2 cm (4 in) in diameter. 3. Junction box covers shall have a tight seal around the edge and shall be kept in place at all times, except during inspection and maintenance. 4. One of the following methods shall be used to control emissions from the junction box vent pipe to the atmosphere: <ol style="list-style-type: none"> A. Equip the junction box with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation. An example of such a system includes use of water seal controls on the junction box. A flow indicator shall be installed, operated, and maintained on each junction box vent pipe to ensure that organic 	<p>shall also establish the design exhaust vent stream organic compound concentration level or the design exhaust vent stream benzene concentration level, capacity of carbon bed, type and working capacity of activated carbon used for carbon bed, and design carbon replacement interval based on the total carbon working capacity of the control device and source operating schedule. The documentation shall be retained for the life of the control equipment.</p> <p>E. A record for each visual inspection required by Operational Limitations (C) or (E) (4) that identifies a problem (such as a broken seal, gap or other problem) which could result in benzene emissions. The record shall include the date of the inspection, waste management unit and control equipment location where the problem is identified, a description of the problem, a description of the corrective action taken, and the date the corrective action was completed.</p> <p>F. A record for each test of no detectable emissions required by operational limitations (A)(2)(i) and (F)(1). The record shall include the date the test was performed, background level measured during test, and maximum concentration indicated by the instrument reading measured for each potential leak interface. If detectable emissions are measured at a</p>	

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<p>vapors are not vented from the junction box to the atmosphere during normal operation.</p> <p>B. Connect the junction box vent pipe to a closed-vent system and control device in accordance with § 61.349.</p> <p>3. Each sewer line shall not be open to the atmosphere and shall be covered or enclosed in a manner so as to have no visual gaps or cracks in joints, seals, or other emission interfaces.</p> <p>4. Equipment installed in accordance with paragraphs (E)(1), (E)(2), or (E)(3) or §61.346 shall be inspected as follows:</p> <p>i. Each drain using water seal controls shall be checked by visual or physical inspection initially and thereafter quarterly for indications of low water levels or other conditions that would reduce the effectiveness of water seal controls.</p> <p>ii. Each drain using a tightly sealed cap or plug shall be visually inspected initially and thereafter quarterly to ensure</p>	<p>leak interface, then the record shall also include the waste management unit, control equipment, and leak interface location where detectable emissions were measured, a description of the problem, a description of the corrective action taken, and the date the corrective action was completed.</p> <p>G. Dates of startup and shutdown of the closed-vent systems and control devices and periods when the closed-vent system and control device are not operated as designed.</p> <p>H. Records of dates and times when the control devices are monitored, when breakthrough is measured, and shall record the date and time that the existing carbon in the control devices are replaced with fresh carbon.</p>	

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<p>caps or plugs are in place and properly installed.</p> <p>iii. Each junction box shall be visually inspected initially and thereafter quarterly to ensure that the cover is in place and to ensure that the cover has a tight seal around the edge.</p> <p>iv. The unburied portion of each sewer line shall be visually inspected initially and thereafter quarterly for indication of cracks, gaps, or other problems that could result in benzene emissions.</p> <p>5. Except as provided in § 61.350, when a broken seal, gap, crack or other problem is identified, first efforts at repair shall be made as soon as practicable, but not later than 15 calendar days after identification.</p> <p>F. The closed vent system and carbon adsorption control devices shall be operated and maintained to meet the following requirements:</p> <p>1. Be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year</p>		

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Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
<p>by the methods specified in §61.355(h).</p> <p>2. To recover or control the organic emissions vented to it with an efficiency of 95 weight percent or greater, or shall recover or control the benzene emissions vented to it with an efficiency of 98 weight percent or greater.</p> <p>3. Be operated at all times when waste is placed in the waste management unit vented to the carbon adsorption control devices, except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the Carbon Adsorption Control System.</p>		
<p>ab. Emission Units No. 10: Wastewater Treatment Plant (WWTP) Unit No. 10: API/CPI Separators, Equalization Tank, Spill Diversion Tanks, Flocculation Clarifier, Flocculation Tanks and Flash Mix Tank</p> <p>1. Volatile Organic Compounds (VOC):</p> <p>i. Emission Standard for API/CPI Separators: [Reference: APC-81/1008, 40 CFR 60.692-5 dated 11/23/88 and 40 CFR 61.349(a)(2)(ii) dated 1/7/93]</p> <p>A. VOC emissions shall not exceed 3.4 tons in any twelve consecutive months.</p>	<p>iv. Compliance Method:</p> <p>A. Compliance with emission standards A and B shall be demonstrated by following the monitoring protocol that is Attachment "E" of this permit. [Reference: APC-81/1008]</p> <p>B. Compliance with the Equipment Standards/Operational Limitations for API/CPI Separators, Equalization Tanks, Spill Diversion Tank, Flocculation Tanks and Flash Mix Tank shall be based on the</p>	<p>vii. Reporting:</p> <p>In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00 and 40 CFR 61.357 dated 1/7/93]</p> <p>A. Submit to the Department copies of the Quarterly and Annual reports sent to the US EPA in accordance with the</p>

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	<p>2. Pressure/decay and the Healy Aboveground Applications System Test results</p> <p>3. Daily records showing the quantity of gasoline delivered to the site.</p> <p>4. Proof of attendance and completion of a training program as specified in 7 DE Admin. Code 1124, Section 36 paragraph (c)(2)(ii).</p> <p>5. Compliance records, including warnings, notices of violation and other compliance records issued by the Department to the facility.</p> <p>B. A conspicuous sign shall be posted with instructions on how to correctly dispense gasoline.</p> <p>C. A conspicuous "Out of Order" sign must be posted on any nozzle associated with any part of the Stage II system that is found to be defective.</p> <p>D. The Department emergency reporting number shall be posted conspicuously.</p>	
b. Emission Unit No. 15: Marine Vapor Recovery (MVR) System; Emission points 15-1 and 15-2		
<p>1. Conditions Applicable to Multiple Pollutants</p> <p>i. Operational Limitation:</p> <p>A. Commercial grade, desulfurized natural gas shall be the only fuel fired in this unit. [Reference 7 DE Admin. Code 1130 Sections 6.1.3.1.2 dated 12/11/00]</p> <p>B. [RESERVED]</p>	<p>ii. Compliance Method:</p> <p>A. Compliance with the operational limitation A shall be based on the fuel type and quality. [Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00 and APC-95/0471 (A3)]</p> <p>B. [RESERVED]</p> <p>iii. Monitoring/Testing: [Reference: APC-95/0471 (A3)]</p>	<p>v. Reporting:</p> <p>That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>vi. Certification:</p>

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	<p>The Owner/Operator shall monitor the fuel usage of the MVR VCU continuously. [Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</p> <p>iv. Recordkeeping: [Reference: APC-95/0471 (A3)] The following records shall be maintained in accordance with Condition 3(b): A. The type of fuel combusted in the MVR VCU and hourly fuel usage. [Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</p>	<p>That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>
<p>2. Particulate Matter:</p> <p>i. Emission Standard: The Owner/Operator shall not cause or allow the emission of particulate matter in excess of 0.3lb/mmBTU heat input, maximum 2-hour average and 1.4 TPY. [Reference: 7 DE Admin. Code 1104 Section 2.1 dated 2/1/81 and APC-95/0471(A3)]</p>	<p>ii. Compliance Method: A. Compliance with the Emission Standard shall be based on the fuel type and quality and Monitoring/Testing below. [Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</p> <p>iii. Monitoring/Testing: A. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.b.1.iii. B. The Owner/Operator shall conduct the following stack tests at 5 year intervals unless more frequent testing is required by the department or unless an alternate compliance determination is approved by the department: 1. EPA Reference Method 5B/202 for PM10/PM2.5, including H2SO4.</p> <p>iv. Recordkeeping Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.b.1 iv.</p>	<p>v. Reporting: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>vi. Certification: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>

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<p>3. Nitrogen oxides (NOx)</p> <p>i. Emission Standard: Comply with "Facility Emission Limit for Nitrogen Oxides (NOx)" in Part 1, Condition 3 - Table 1.j.</p>	<p>ii. Compliance Method:</p> <p>A. Compliance with the Emission Standard shall be based on Monitoring/Testing and Recordkeeping requirements. [Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</p> <p>B. Compliance with "Facility-wide Emission Limit for Nitrogen Oxides (NOx)" in Part 1, Condition 3 - Table 1.j shall be based on determination and use of a NOx emission factor based upon results of the most recent performance testing conducted in accordance with a protocol approved by DNREC, or performed in accordance with applicable performance testing methods established and published by EPA and appropriate for measuring NOx emissions from the relevant source or any other method proposed by the Owner/Operator and approved by the Department. [Reference: 7 DE Admin. Code 1130 Section 6.3.1 dated 12/11/00]</p> <p>iii. Monitoring/Testing:</p> <p>A. The Owner/Operator shall conduct a Department-approved stack test once every 5 years. [Reference: APC-95/0471/421]</p> <p>B. Comply with "Facility-wide Emission Limit for Nitrogen Oxides (NOx)" in Part 1, Condition 3 - Table 1.j. [Reference: 7 DE Admin. Code 1130 Section 6.1.3.1 dated 12/11/00]</p> <p>iv. Recordkeeping: Comply with "Facility-wide Emission Limit for Nitrogen Oxides (NOx)" in Part 1, Condition 3 - Table 1.j. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2 dated 12/11/00]</p>	<p>v. Reporting: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>vi. Certification: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>

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<p>4. Carbon monoxide (CO):</p> <p>i. Emission Standards: CO emissions shall not exceed 153.2 lb/hour and 55.7 tons in any twelve consecutive months. [Reference: APC-95/0471 (42)]</p>	<p>ii. Compliance Method:</p> <p>A. Compliance with the emission standard shall be based on Monitoring/Testing and Recordkeeping requirements. [Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</p> <p>iii. Monitoring/Testing:</p> <p>A. The Owner/Operator shall conduct a Department approved stack test once every 5 years. [Reference: APC-95/0471 (42)]</p> <p>iv. Recordkeeping: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.b.1.iv.</p>	<p>v. Reporting: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>vi. Certification: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>
<p>5. Volatile Organic Compounds (VOCs)</p> <p>i. Emission Standard: [Reference: APC-95/0471 (43)]</p> <p>A. VOC emissions shall not exceed 75.5 tons in any twelve consecutive months. [Reference: APC-95/0471 (43)]</p> <p>B. Vapors displaced during barge loading operations shall be collected and routed through the marine vapor control system and shall be reduced by 99 weight percent or to 500 ppmv of VOC.</p> <p>ii. Operational Limitations: [Reference: APC-95/0471 (42), 40 CFR §60.18 dated 10/17/2000, 40 CFR §63.11 dated 10/17/2000 and 40 CFR 63.562(b)(1), (b)(3) and (b)(3) dated September 19, 1995]</p>	<p>iii. Compliance Method:</p> <p>A. Compliance with Emission Standard (A) and Operational Limitation (B) shall be based on all of the following: [Reference: APC-95/0471 (43), 40 CFR §60.18 dated 10/17/2000 and 40 CFR §63.11 dated 10/17/2000]</p> <p>1. Operating the VCUs in accordance with 40 CFR 60.18 and with the continuous presence of a flame at the pilot during the entire loading cycle.</p> <p>2. Compliance with all of the Operational Limitations.</p> <p>3. Operating a calibrated and maintained sensing device to indicate the continuous presence of a flame at the pilot light during the entire loading cycle.</p> <p>B. Compliance with Emission Standard (B) shall be based upon monitoring/testing and</p>	<p>vi. Reporting Requirements: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>vii. Certification: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>

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<p>A. Barge loading of gasoline products (ethanol) shall not exceed the following rates:</p> <ol style="list-style-type: none"> 1. 35,000 barrels hour when loading simultaneously at two piers; and 2. 25,000 barrels per hour at one pier. <p>B. The rolling twelve month throughput of gasoline products (ethanol) shall not exceed 25,463,000 barrels.</p>	<p>recordkeeping requirements to demonstrate the 99% destruction efficiency or by CEMS to demonstrate compliance with the 500 ppmv limit.</p> <p>C. Compliance with the Operational Limitations shall be based on the monitoring/testing and recordkeeping requirements of this condition. <i>[Reference: 7 DE Admin. Code 1130 Section 6.1.3.2 dated 12/11/00]</i></p>	
<p>C. The combined ethanol throughput at the Marine Piers and the Terminal Truck Rack shall not exceed an average of 10,000 BPD in any 12 consecutive months. [Reference: APC-1988/0125-C(46)]</p>	<p>iv. Monitoring/Testing: <i>[Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</i></p> <p>A. The Owner/Operator shall continuously monitor the hourly loading rate of all gasoline products at each pier during loading operations.</p> <p>B. The Owner/Operator shall continuously monitor the hourly-loading rate of all crudes at each pier during loading operations.</p> <p>C. A sensing device shall be calibrated, maintained and operated to indicate the continuous presence of a flame at the pilot light during the entire loading cycle. <i>[Reference: APC-95/0471 (43), 40 CFR §60.18 dated 10/17/2000, and 40 CFR §63.11 dated 10/17/2000]</i></p> <p>D. The Owner/Operator shall conduct a Department approved stack test once every 5 years. <i>[Reference: APC-95/0471 (43)]</i></p> <p>D. If the Owner/Operator decides to install a CEMS, the CEMS shall comply with Quality Assurance procedures in 40 CFR Part 60 Appendix "F".</p>	
<p>ED. The throughput of crude oil shall not exceed 7,000 barrels per hour on a daily average basis and 16,425,000 barrels on a rolling twelve month basis.</p>		
<p>DE. The vapors collected at one loading berth shall not pass through another loading berth to the atmosphere.</p>		
<p>EE. Marine tank vessel loading operations shall be limited to those vessels that are equipped with vapor collection equipment that is</p>		
	<p>v. Recordkeeping:</p>	

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<p>compatible with the terminal's vapor collection system.</p> <p>FG. Marine tank vessel loading operations shall be limited to those vessels that are vapor tight and that are connected to the vapor collection system.</p> <p>GH. Marine vessel loading operations may be carried out only when the marine vessels have been connected to the loading rack's vapor collection system and which have current vapor tightness certification in accordance with the requirements of 40 CFR 63.563(a)(4) and have been demonstrated to be vapor tight within the preceding 12 months.</p> <p>HI. No barge loading operations of gasoline products or crude oil shall be conducted unless the MVR VCU's is/are operating properly. Proper operation is defined as operating the VCU's in accordance with 40 CFR 60.18, and with the continuous presence of a flame at the pilot during the entire loading cycle.</p> <p>IJ. Marine vessel loading operations shall not be conducted unless the vapor control system is working properly.</p> <p>JK. The Owner/Operator shall comply with the operation and maintenance requirements for air pollution control</p>	<p>In addition to the records required by §63.567, the following records shall be maintained in accordance with Condition 3(b):</p> <p>A. [RESERVED]</p> <p>B. [RESERVED]</p> <p>C. Continuous records of pilot flame monitoring.</p> <p>D. Records of all periods of operation during which the pilot flame is absent during the loading cycle.</p> <p>E. The hourly throughput, type of product, number of piers used and duration of each loading cycle.</p> <p>F. Any flare system that is designed to cease operation upon loss of pilot and that automatically shuts down vessel loading and isolates the vessel vent stream from the flare by closing automatic block valves shall be exempt from the requirements of (C) and (D) above.</p> <p>G. For each marine vessel the Owner/Operator shall maintain up-to-date documentation of the vapor tightness test results to include as a minimum the following:</p> <ol style="list-style-type: none"> 1. Marine tank vessel owner(s) name(s) and address(s). 2. Marine tank vessel identification number. 3. Date and location of test. 4. Test results. 5. Name and signature of tester. 6. Witnessing inspector: name, signature and affiliation. <p>H. The written operation and maintenance plan required by 63.562(e).</p>	

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Condition 3 - Table 1 (Specific Requirements) Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
<p>6. Visible Emissions:</p> <p>i. Emission Standard: The MVR VCU shall be designed for and operated with no visible emissions except for periods not to exceed a total of 5 minutes during any 2 consecutive hour period. (Reference: 7 DE Admin. Code 1114, Section 2.1, dated 7/11/84; 40 CFR 60, Subpart A, §50.18(c)(1), dated 7/1/00 and 40 CFR 63.11(a)(4) dated 7/1/00)</p>	<p><u>I. Rolling 12 month throughput at Tank 206-TF-112.</u> <u>J. Rolling 12 month throughput at Tank 225-TF-133.</u></p>	
<p>ii. Compliance Method: A. Compliance with the Emission Standard shall be based on Monitoring/Testing requirements. (Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00)</p> <p>iii. Monitoring/Testing: A. Visible emissions from the MVR VCUs shall be monitored as follows: Each day the MVR VCUs are operated, the Owner/Operator shall conduct a qualitative observation of the flare using Method 22 to evaluate the presence or absence of smoke and/or visible air contaminants while the flare is in operation. (Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00)</p> <p>B. If visible emissions are detected during the daily qualitative survey of visible emissions or is observed at any other time, the Owner/Operator shall take corrective actions and/or conduct a visible observation in accordance with Paragraph (C) below. If no visible emissions are observed, no further action is required.</p> <p>C. If required under paragraph B above, the Owner/Operator shall, in accordance with 7 DE Admin. Code 1120 Section 1.5.3, conduct visual observations at fifteen-second intervals for a period of not less than one</p>		<p>v. Reporting: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. (Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00)</p> <p>vi. Certification That required by Condition 3(c)(3) of this permit. (Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00).</p>

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Condition 3 - Table 1 (Specific Requirements)

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	<p>hour except that the observations may be discontinued whenever a violation of the standard is recorded or if operations at the MVR VCU are ceased. The additional procedures, qualification and testing to be used for visually determining the opacity shall be those specified in Section 2 & 3 (except for Section 2.5 and the second sentence of Section 2.4) of Reference Method 9 set forth in Appendix A, 40 CFR, Part 60, revised July 1, 1982. <i>[Reference: 7 DE Admin. Code 1120, Section 1.5(c) dated 12/7/88].</i></p>	
7. Sulfur Dioxide (SO ₂)	<p>iv. Recordkeeping: The following records shall be maintained in accordance with Condition 3(b): Records of qualitative emission observations and Method 9 evaluations when emissions are observed.</p>	
<p>i. Emission Standard: <i>[Reference: APC-95/0471(A3)]</i> SO₂ emissions from crude oil loading operations shall not exceed 18.1 lbs/hour on a daily average basis and 21.3 TPY.</p>	<p>ii. Compliance Method: The Owner/operator shall test each crude oil shipment to be loaded into marine vessels by ASTM D5705 Hydrogen Sulfide in Vapor Space to determine hydrogen sulfide in the barge vapor space during crude oil loading.</p>	<p>iv. Reporting: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. <i>[Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p>
<p>ii. Operational Limitation: <i>[Reference: APC-95/0471 (A3)]</i> The Hydrogen Sulfide (H₂S) concentration in the barges being loaded with crude oil shall not exceed 2,778 ppmv on a 12-month rolling</p>	<p>iii. Record Keeping The Owner/Operator shall maintain records of all ASTM D5705 Hydrogen Sulfide in Vapor Space test results.</p>	<p>v. Certification: That required by Condition 3(c)(3) of this permit. <i>[Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p>

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average basis and 30,000 ppmv on a daily average basis.			
8. Hydorgen Sulfide (H ₂ S)	ii. Monitoring/Testing: [Reference: APC-95/0471 (43)] A. The Owner/Operator shall conduct the following stack tests at 5 year intervals unless more frequent testing is required by the department: 1. EPA Reference Method 15 for H ₂ S iii. Record Keeping: [Reference: APC-95/0471 (43)] The Owner/Operator shall maintain stack test results.	iv. Reporting: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00] v. Certification: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]	
9. Sulfuric Acid (H ₂ SO ₄): i. Emission Standard: [Reference: APC-95/0471 (43)] H ₂ SO ₄ emissions during crude oil loading operations shall not exceed 0.6 lbs/hour on a daily average basis and 0.7 TPY.	ii. Monitoring/Testing: [Reference: APC-95/0471 (43)] A. The Owner/Operator shall conduct the following stack tests at 5 year intervals unless more frequent testing is required by the department: 1. EPA Reference Method 8 for H ₂ SO ₄ iii. Record Keeping: [Reference: APC-95/0471 (43)] The Owner/Operator shall maintain stack results.	iv. Reporting: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00] v. Certification: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]	
c. Emission Unit No. 21: Crude Unit; Crude Unit Atmospheric Tower Heater 21-H-701, and Crude Unit Vacuum tower Heater 21-H-2. Emission Point 21-1			
1. Conditions Applicable to Multiple Pollutants: i. Operational Limitation:	ii. Compliance Method: Compliance with the Operational Limitations shall be based on monitoring/testing and	v. Reporting: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit.	

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<p>A. The throughput to the crude unit shall not exceed 191,100 BPD on a twelve month rolling average basis. [Reference: APC-81/0828(A2)]</p> <p>B. [RESERVED]</p> <p>C. [RESERVED]</p> <p>D. The emission standards in conditions (c)(2) through (c)(6) below shall not apply for a period of twenty-four (24) hours from the time that fuel gas flow is started to the heater and for a period of twenty-four (24) hours from the time that black oil charge to the crude unit is stopped. [Reference: APC-95/0570(A3) and APC-95/0784(A2)]</p> <p>E. There shall be no emissions of uncondensed VOCs from the condensers, hot wells or accumulators of any vacuum producing system. The Company shall provide for the following during process unit turnarounds:</p> <ol style="list-style-type: none"> 1. Depressurization venting of the process unit or vessel to a vapor recovery system, flare or firebox. 2. No emission of VOC from a process unit or vessel until its internal pressure is 136 kPa (19.7 psia) or less. 	<p>recordkeeping requirements and the following: [Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</p> <p>A. Compliance with Operational Limitations E and F shall be based on either piping the uncondensed vapors to a firebox or incinerator. Alternately, the vapors may be compressed and added to the refinery fuel gas. [Reference: APC-81/0828(A2)]</p> <p>B. Compliance with Operational Limitations F shall be based upon the Company conducting depressurization venting of the process unit or vessel to a vapor recovery system, flare or firebox. [Reference: APC-81/0828(A2)]</p> <p>iii. Monitoring/Testing: [Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</p> <p>A. The Owner/Operator shall continuously monitor the following:</p> <ol style="list-style-type: none"> 1. Daily fresh feed throughput to the Crude unit and determine the rolling 12 month average in barrels per calendar day. 2. Monitor the fuel usage by 21-H-701 and 21-H-2. <p>B. [RESERVED]</p> <p>C. The Company shall monitor the pressure in each process or vessel until its internal pressure is 136 kPa or less. [Reference: APC-81/0828(A2)]</p>	<p>[Reference 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>vi. Certification: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00].</p>
<p>iv. Recordkeeping: [Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</p>		

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Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Compliance Determination Methodology (Monitoring/ Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/ Compliance Certification
	<p>The following records shall be maintained in accordance with Condition 3(b):</p> <p>A. Rolling 12 month average throughout of fresh feed to the crude unit in MBPD.</p> <p>B. [RESERVED]</p> <p>C. Type of fuel combusted in 21-H-701 and 21-H-2 and fuel usage.</p> <p>D. The rolling 12-month total emissions for each pollutant.</p> <p>E. Date of process unit or vessel turnaround and the internal pressure immediately prior to venting to the atmosphere. [Reference: APC-81/0828(A2)]</p>	
<p>2. Particulate Matter:</p> <p>i. Emission Standard: For 21-H-701 and 21-H-2 combined: PM₁₀ emissions shall not exceed 0.02 lb/mmBtu and 60.9 tons in any rolling twelve month period (inclusive of H₂SO₄ emissions). [Reference: 7 DE Admin. Code 1104 Section 2.1 dated 2/1/81 and APC-95/0570 (A3) and APC-95/0784 (A2)]</p> <p>ii. Operational Limitation:</p> <p>A. With the exception of Operational Limitation (B) process heaters 21-H-701 and 21-H-2 shall only combust natural gas or desulfurized RFG. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2 dated 12/11/00]</p> <p>B. 21-H-701 may combust process vent gas from the Mercox system oxidizer column 21-C-104. [Reference: 7 DE</p>	<p>iii. Compliance Method:</p> <p>A. Compliance with the Emission Standard shall be based on the stack test based emission factor and the rolling 12 month fuel usage. [Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</p> <p>iv. Monitoring/Testing: [Reference: APC-95/0570 (A2)] and 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</p> <p>A. [RESERVED]</p> <p>B. [RESERVED]</p> <p>C. [RESERVED]</p> <p>D. The Owner/Operator shall conduct a stack test every five years to determine the emission factor in terms of lb/mmBtu in accordance with Methods 5B/202, or any other testing methodology approved by the Department.</p> <p>v. Recordkeeping:</p>	<p>vi. Reporting: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>vii. Certification: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00].</p>

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<p>3. Sulfur dioxide (SO₂):</p> <p>i. Emission Standards:</p> <p>A. Except as allowed by Operational Limitation 2.ii.A. above, the Owner/Operator shall not burn in any fuel gas combustion device any fuel gas that contains H₂S in excess of 0.1 grain/DSCF on a three hour rolling average. <i>[Reference 7 DE Admin. Code 1120, Section 11 dated 11/27/05 and 40 CFR 60.104(a)(1) dated 10/17/2000]</i></p> <p>B. SO₂ emissions from 21-H-701 and 21-H-2 combined shall not exceed 0.063 lb/mmBtu and 80.4 tons in any rolling twelve month period. <i>[Reference: APC-95/0570 (A3) and APC-95/0794 (A2)]</i></p>	<p>Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.c.1.iv.</p> <p>ii. Compliance Method: <i>[Reference 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</i></p> <p>A. Compliance with Emission Standard A shall be based on the H₂S CEMS for the RFG.</p> <p>B. Compliance with Emission Standard B shall be based on the rolling twelve month fuel usage and the rolling twelve month average sulfur content of the refinery fuel gas as measured by a TRS analyzer.</p> <p>iii. Monitoring/Testing: <i>[Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</i></p> <p>A. The H₂S content in RFG shall be continuously monitored using CMS.</p> <p>B. The H₂S CMS shall comply with Performance Specification 7 of 40 CFR 60, Appendix "B".</p> <p>C. Quality Assurance requirements for the H₂S CMS shall be in accordance with the procedures described in 40 CFR 60, Appendix "F".</p> <p>D. The TRS monitor shall conform to the QA/QC requirements recommended by the manufacturer's specifications and listed in the QA/QC Plan for the TRS monitor. The TRS monitor shall conform to Performance Specification 5 of 40 CFR Part 60, Appendix "B". Relative accuracy evaluations shall be conducted using Method 15 of 40 CFR part 60, Appendix "A".</p>	<p>v. Reporting</p> <p>That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(i), and 3(c)(2) of this permit. <i>[Reference 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p> <p>vi. Certification:</p> <p>That required by Condition 3(c)(3) of this permit. <i>[Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00].</i></p>

Condition 3 - Table 1 (Specific Requirements)

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
	<p>iv. Recordkeeping: [Reference: 7 DE Admin. Code 11.30 Section 6.1.3.2 dated 12/11/00]</p> <p>The following records shall be maintained in accordance with Condition 3(b):</p> <p>A. Fuel usage, rolling average 12 month sulfur content as measured by H₂S CEMS and all H₂S CEMS calibration, maintenance, quarterly cylinder gas audits and annual relative accuracy test audits.</p> <p>B. The rolling 12-month TRS concentration in fuel gas.</p>	
<p>4. Nitrogen oxides (NO_x):</p> <p>i. Emission Standard:</p> <p>A. For 21-H-701 and 21-H-2 combined: NO_x emissions shall not exceed 0.04 lb/mmBtu on a 3-hour rolling average and 20 lb/hour on a 24-hour rolling average. [Reference: APC-95/0570(43) and APC-95/0784 (42) and 7 DE Admin Code 1142, Section 2.3.2 dated 04/11/11]</p> <p>B. For 21-H-701 and 21-H-2: Comply with "Facility-wide Emission Limit for Nitrogen Oxides (NO_x)" in Part 1, Condition 3 - Table 1.j.</p> <p>C. [RESERVED]</p>	<p>ii. Compliance Method:</p> <p>A. Compliance with the Emission Standards shall be determined by CEMS. The Owner/Operator shall operate and maintain the CEMS to assure maximum data capture and at no time shall the data capture fall below eighty-five percent (85%) of the Process Heaters daily operating hours and eighty-five percent (85%) of the operating days per month. [Reference: APC-95/0570(43) and APC-95/0784(42)]</p> <p>B. Comply with "Facility-wide Emission Limit for Nitrogen Oxides (NO_x)" in Part 1, Condition 3 - Table 1.j. [Reference: 7 DE Admin Code 11.30 Section 6.1.3.1 dated 12/11/00]</p> <p>iii. Monitoring/Testing:</p> <p>The CEMS for NO_x and diluent must be certified by satisfying the applicable Performance Specifications in 40 CFR, Part 60, Appendix "B". The QA/QC procedures for the NO_x and diluent CEMS shall be established in accordance with 40</p>	<p>V. Reporting:</p> <p>That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>vi. Certification:</p> <p>That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00].</p>

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Condition 3 - Table 1 (Specific Requirements) Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
	<p>CFR, Part 60, Appendix "F". [Reference: <u>APC-95/0570 (A3)</u> and <u>APC-95/0704 (A2)</u>]</p> <p>iv. Recordkeeping: The following records shall be maintained in accordance with Condition 3(b): Owner/Operator shall maintain the following records: [Reference: <u>APC-95/0570(A3)</u> and <u>APC-95/0704(A2)</u>]</p> <p>A. Comply with "Facility-wide Emission Limit for Nitrogen Oxides (NOx)" in Part 1, Condition 3 - Table 1.i. [Reference: <u>7 DE Admin Code 1130 Section 6.1.3.2 dated 12/11/00</u>]</p> <p>B. [RESERVED]</p> <p>C. [RESERVED]</p> <p>D. The hourly and rolling 12-month total emissions for NOx shall be calculated and recorded for each month.</p> <p>E. CEMS data calibration and audit results.</p> <p>F. F-factor adjustments and the actual daily data capture.</p>	

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<p>5. Carbon Monoxide (CO):</p> <p>i. Emission Standard:</p> <p>A. CO emissions from 21-H-701 and 21-H-2 combined shall not exceed 0.03 lb/mmBtu and 91.4 tons in any rolling 12 month period. [Reference: APC-95/0570/43] and APC-95/0784/42]</p>	<p>ii. Compliance Method:</p> <p>Compliance with the emission standard shall be based on the stack test based emission factor and the rolling twelve month fuel usage. [Reference: Permit-APC-95/0570/42]</p> <p>iii. Monitoring/Testing: [Reference: APC-95/0570/42] and 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</p> <p>A. RESERVED</p> <p>B. The Owner/Operator shall conduct stack Tests at 5 year intervals to determine the emission factor in terms of lb/mmBtu in accordance with Reference Method 10 in Appendix "A" of 40 CFR Part 60.</p> <p>iv. Recordkeeping:</p> <p>Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.c.i.iv.</p>	<p>v. Reporting:</p> <p>That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. [Reference 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>vi. Certification:</p> <p>That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00].</p>
<p>6. Volatile Organic Compounds (VOCs):</p> <p>i. Emission Standard:</p> <p>A. VOC emissions from 21-H-701 and 21-H-2 combined shall not exceed 0.003 lb/mmBtu and 9.2 tons in any rolling twelve month period. [Reference: APC-95/0570/43] and APC-95/0784/42]</p> <p>B. The leak detection and repair requirements to control fugitive VOC emissions from the Crude Unit shall be in accordance with the requirements in 40 CFR 60, Subpart GGG for existing components in light liquid and gaseous service and in accordance with 40 CFR</p>	<p>ii. Compliance Method:</p> <p>A. Compliance with the Emission Standard (A) shall be based on the stack test based emission factor and the rolling twelve month fuel usage. [Reference: APC-95/057/42]</p> <p>B. Compliance with the emission standard B shall be based on the standards in 40 CFR subpart GGG and 40 CFR Part 63 subpart CC, as applicable. Compliance with the standards in 40 CFR subpart GGG shall be based on the test methods and procedures in 40 CFR 60.592 and compliance with the requirements of 40 CFR Part 63 subpart CC</p>	<p>v. Reporting:</p> <p>That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. [Reference 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>vi. Certification:</p> <p>That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00].</p> <p>None in addition to those required by Condition 3(c)(3) of this permit.</p>

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Condition 3 - Table 1 (Specific Requirements) Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
<p>part 63, subpart CC for new components in light liquid and gaseous service. The leak detection and repair requirements to control fugitive emissions from the Crude Unit shall be in accordance with the Consent Decree for both new and existing components in light liquid and gaseous service. [Reference: <u>APC-2004/0828(A2)</u>]</p> <p>ii. Operational Limitation: [RESERVED]</p>	<p>shall be based on the standards in 40 CFR 63.648. [Reference: <u>APC-2004/0828(A2)</u>]</p> <p>C. [RESERVED]</p> <p>iii. Monitoring/Testing: [Reference: <u>APC-95/0570(A2)</u> and <u>7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00</u>]</p> <p>A. [RESERVED]</p> <p>B. The Owner/Operator shall conduct a stack test every 5 years to determine the emission factor in terms of lb/mmBtu in accordance with Reference Method 25A in Appendix "A" of 40 CFR Part 60 and shall determine and report results as total hydrocarbons or shall conduct such other testing methodology and/or report results as approved by the Department.</p> <p>iv. Recordkeeping: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.c.1.iv. and maintain the following records: [Reference: <u>APC-95/0570(A2)</u> and <u>7 DE Admin. Code 1130 Section 6.1.3.2 dated 12/11/00</u>]</p> <p>A. [RESERVED]</p> <p>B. [RESERVED]</p> <p>C. VOC leak repair records required by 40 CFR 60.592 for existing components in light liquid and gaseous service and 40 CFR 63.654 for new components in light liquid and gaseous service. D. [RESERVED]</p>	

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<p>7. Visible Emissions: The Owner/Operator shall not cause or allow the emission of visible air contaminants and/or smoke from any emission unit, the shade or appearance of which is greater than 20% opacity for an aggregate of more than 3 minutes in any 1 hour or more than 15 minutes in any 24 hour period. [Reference 7 DE Admin. Code 1114, Section 2.1, dated 7/17/84].</p>	<p>Condition 3 - Table 1 (Specific Requirements)</p> <p>ii. Compliance Method: Compliance shall be demonstrated by proper operation and maintenance of the emission units, monitoring and testing requirements, and record keeping. [Reference 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</p> <p>iii. Monitoring/Testing: A. The Owner/Operator shall conduct daily qualitative stack observations to determine the presence of any visible emissions when the unit is in operation. 1. If visible emissions are observed, the Owner/Operator shall take corrective actions and/or conduct a visible observation in accordance with Paragraph B below. 2. If no visible emissions are observed, no further action is required. B. If required under paragraph A above, the Owner/Operator shall, in accordance with 7 DE Admin. Code 1120 section 1.5, conduct visual observations at fifteen-second intervals for a period of not less than one hour except that the observations may be discontinued whenever a violation of the standard is recorded. The additional procedures, qualification and testing to be used for visually determining the opacity shall be those specified in Section 2 & 3 (except for Section 2.5 and the second sentence of Section 2.4) of Reference Method 9 set forth in Appendix A, 40 CFR, Part 60, revised July 1, 1982. [Reference 7 DE Admin. Code 1120 Section 1.5.3 dated 12/7/88].</p> <p>iv. Recordkeeping [Reference 7 DE Admin. Code 1130 Section 6.1.3.2 dated 12/11/00]</p>	<p>v. Reporting Requirement: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. [Reference 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>vi. Certification Requirement: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00].</p>
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Condition 3 - Table 1 (Specific Requirements)		
Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping		
Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)		Reporting/Compliance Certification
<p>8. Sulfuric Acid (H₂SO₄)</p> <p>i. Emission Standard: H₂SO₄ emissions from 21-H-701 and 21-H-2 combined shall not exceed 0.002 lb/mmBtu and 2.4 TPY. [Reference: APC-95/0570(A3) and APC-95/0784(A2)]</p>	<p>A. A record of daily qualitative emission observations and Method 9 evaluations when emissions were observed.</p>	<p>v. Reporting Requirement: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. [Reference 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>
	<p>ii. Compliance Method: Compliance with the Emission Standard shall be based on the rolling twelve month fuel usage and the rolling twelve month average sulfur content in the refinery fuel gas as measured by a TRS analyzer. [Reference: APC-95/0570(A3) and APC-95/0784(A2)]</p>	<p>vi. Certification Requirement: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00].</p>
	<p>iii. Monitoring/Testing: The TRS monitor shall conform to the QA/QC requirements recommended by the manufacturer's specifications and listed in the QA/QC Plan for the TRS monitor. The TRS monitor shall conform to Performance Specification 5 of 40 CFR Part 60, Appendix "B". Relative accuracy evaluations shall be conducted using Method 15 of 40 CFR Part 60, Appendix "A". [Reference: APC-95/0570(A3) and APC-95/0784(A2)]</p>	
<p>9. Ammonia (NH₃)</p> <p>i. Emission Standard: NH₃ emissions from 21-H-701 and 21-H-2 combined shall not exceed 10 ppmvd @ 3% O₂ and 16.5 TPY. [Reference: APC-95/0570(A3) and APC-95/0784(A2)]</p>	<p>ii. Compliance Method: Compliance with the Emission Standard shall be based on the Monitoring/Testing requirements. [Reference: APC-95/0570(A3) and APC-95/0784(A2)]</p>	<p>v. Reporting Requirement: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. [Reference 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>
	<p>iii. Monitoring/Testing: [Reference: APC-95/0570(A3) and APC-95/0784(A2)] The Owner/Operator shall obtain weekly grab samples from a location downstream of the SCR using a Department approved method. The Owner/Operator may request the Department for approval of less frequent monitoring if 24</p>	<p>vi. Certification Requirement: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00].</p>

Condition 3 - Table 1 (Specific Requirements)

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
	consecutive sampling events indicate the ammonia slip to be less than 5 ppmvd @ 3% O ₂ . If at any time the grab samples indicate an NH ₃ slip greater than 10 ppmvd @ 3% O ₂ , the Department reserves the right to require the Owner/Operator to conduct more frequent sampling and may include the requirement to install a CEMS.	
da. Emission Unit No. 22: Fluid Coking Unit (FCU): FCU, Wet Gas Scrubber (WGS), and Selective Non-Catalytic Reduction System (SNCR) (Emission point/s 22-2 or 22-3), FCU Start Up Heater 22-H-1 (Emission point/s 22-2 or 22-3), FCU Selsas Steam Superheater 22-H-2 (Emission point 22-4), FCU Carbon Monoxide Boiler 22-H-3 (Emission point 22-2) and FCU Back Up Incinerator 22-H-4 (Emission point 22-3)		
<p>1. Conditions Applicable to Multiple Pollutants:</p> <p>i. Operational Limitations (Reference <u>APC-81/0829(A8)</u>)</p> <p>A. The FCU throughput shall not exceed a maximum rate of 57,199 barrels per day of total feed, exclusive of the FCU recycle stream, as a 12 month rolling average, except as provided in this Condition. In the event that the Owner/Operator determines that the FCU throughput may exceed 57,199 barrels per day of fresh feed, as a 12 month rolling average, without any "modification" to the FCU, as such term is defined in State of Delaware's 7 DE Admin. Code 1101, then the Owner/Operator shall</p>	<p>ii. Compliance Method:</p> <p>A. Compliance with Operational Limitations A, C, D, and H(1) shall be based on monitoring/testing and recordkeeping requirements. (Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00)</p> <p>B. [RESERVED]</p> <p>C. Compliance with Operational Limitation C shall be based on continuous monitoring systems. (Reference <u>APC-81/0829(A8)</u>)</p> <p>D. Compliance with Operational Limitations I and J shall be based on either piping the uncondensed vapors to a firebox or incinerator. Alternately, the vapors may be compressed and added to the refinery fuel gas.</p> <p>E. Compliance with Operational Limitation G shall be based on engineering calculations. (Reference <u>APC-81/0829(A8)</u>)</p>	<p>v. Reporting:</p> <p>In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: (Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00 and 40 CFR 61.357 dated 1/7/93 and <u>APC-81/0829(A8)</u>)</p> <p>A. Semiannual reports for the preceding six month period shall be submitted to the Department by January 31 and July 31 of each calendar year. The semiannual reports required by this section shall be increased in frequency to quarterly reports at the Department's discretion and shall become effective upon request of the Department after reasonable notice to the Owner/Operator. An electronic copy of all required reports shall be sent to the Department's compliance engineer</p>

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Condition 3 - Table 1 (Specific Requirements)

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
<p>J. For monitors used to determine compositional analysis for net heating value per 40 CFR 63.670(i)(1), the gas chromatograph must also meet the requirements at 40 CFR 63.671(e)(1)] through 40 CFR 63.671(e)(3).</p> <p>K. See Table 6 of 40 CFR 63 Subpart CC for applicability of General Provisions.</p>		
<p>oa. Facility Wide Requirement for Fugitive VOC Emissions, i.e., Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries (40 CFR 60, Subpart GGG); National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (40 CFR Part 63 Subpart CC) Standards of Performance for Equipment Leaks of VOC in SOCM1 (40 CFR 60, Subpart VV), and Regulation No. 24, Section 29, Leaks from Petroleum Refinery Equipment</p>		
<p>1. Pumps in Light Liquids Service.</p> <p>i. Operational Standards</p> <p>A. Each pump in light liquid service shall be monitored by the methods and procedures in accordance with (iii)(A) of this section. <i>[Reference: 7 DE Admin. Code 1124, Section 29, dated 11/29/94 and 40 CFR 60, subpart VV, §60.482-2(a) dated 7/1/00 and 40 CFR 63.648(a)(1) dated 8/18/98].</i></p> <p>B. Leak Repair</p> <p>1. When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in Section 8 of this unit. <i>[Reference: 7 DE Admin. Code 1124, Section 28, dated 11/29/94 and 40 CFR 60, Subpart VV, §60.482-2(c)(1) dated 7/1/00 and 40 CFR 63.648(a)(1) dated 8/18/98].</i></p> <p>2. A first attempt at repair shall be made no later than 5 calendar days after</p>	<p>ii. Compliance Methods</p> <p>Compliance with the operational standards of this condition shall be demonstrated in accordance with the monitoring/testing and recordkeeping requirements of this section. <i>[Reference: 7 DE Admin. Code 1130 Section 6.1.3 dated 11/15/93]</i></p> <p>iii. Monitoring/Testing</p> <p>A. Periodic Monitoring</p> <p>1. Each pump in light liquid service shall be monitored monthly to detect leaks by the methods specified in 40 CFR 60, Subpart VV, §60.485(b), dated 7/1/00, except as given in paragraphs (i)(C), (i)(D), and (i)(E) of this section.</p> <p>2. Each pump in light liquid service shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal. <i>[Reference:</i></p>	<p>v. Reporting</p> <p>That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit and the following: <i>[Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p> <p>A. [RESERVED]</p> <p>B. Other reporting requirements are covered under Section 13 of this unit.</p> <p>vi. Compliance Certification</p> <p>That required by Condition 3(c)(3) of this permit. <i>[Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p>

Condition 3 – Table 1 (Specific Requirements)

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
<p>section are exempt from the requirements of paragraphs (i)(A) through (C) of this section. <i>(Reference: 7 DE Admin. Code 1124, Section 29, dated 11/29/94 and 40 CFR 60, Subpart VI, §60.482-6(a) dated 12/14/00 and 40 CFR 63.648(a)(1) dated 8/18/98)</i></p> <p>6. Valves in Gas/vapor Service and in Light Liquid Service.</p> <p>i. Operational Standards</p> <p>A. Each valve shall be monitored as given in section (iii) of this unit and shall comply with Operational Standards (B) through (D), except as provided in Operational Standards (E) and (F) and Sections 10 and 11 of this unit. <i>(Reference: 7 DE Admin. Code 1124, Section 29, dated 11/29/94 and 40 CFR 60, Subpart VI, §60.482-6(a) dated 12/14/00 and 40 CFR 63.648(a)(1) dated 8/18/98)</i></p> <p>B. <u>1.</u> When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in Section 8 of this unit.</p> <p><u>2.</u> A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. <i>(Reference: 7 DE Admin. Code 1124, Section 29, dated 11/29/94 and 40 CFR 60, Subpart VI, §60.482-6(a) dated 12/14/00 and 40 CFR 63.648(a)(1) dated 8/18/98)</i></p>	<p>ii. Compliance Method</p> <p>Compliance with the operational standards of this condition shall be demonstrated in accordance with the monitoring/testing and recordkeeping requirements of this section. <i>(Reference: 7 DE Admin. Code 1130, Section 6.1.3 dated 12/11/00).</i></p> <p>iii. Monitoring/Testing</p> <p>A. Each valve shall be monitored monthly to detect leaks by the methods specified in 40 CFR 60 Subpart VI, §60.485(b), dated 7/1/00. <i>(Reference: 7 DE Admin. Code 1124, Section 29, dated 11/29/94 and 40 CFR 60, Subpart VI, §60.482-6(a) dated 12/14/00)</i></p> <p>B. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected for existing valves as defined in 40 CFR 63.640. If an instrument reading of 500 ppm or greater is measured, a leak is detected for new valves as defined in 40 CFR 63.640. <i>(Reference: 7 DE Admin. Code 1124, Section 29, dated 11/29/94, 40 CFR 60, Subpart VI, §60.482-6(a) dated 12/14/00 and 40 CFR 63.648)</i></p> <p><u>If an instrument reading of 100 ppm or greater is measured, a leak is detected per the site's Leak Detection and Repair (LDAR) Program.</u></p>	<p>v. Reporting</p> <p>That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit and the following: <i>(Reference: 7 DE Admin. Code 1130, Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00)</i></p> <p>A. RESERVED</p> <p>B. Other reporting requirements are covered under Section 13 of this unit.</p> <p>vi. Certification</p> <p>That required by Condition 3(c)(3) of this permit. <i>(Reference: 7 DE Admin. Code 1130, Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00)</i></p>

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Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Condition 3 - Table 1 (Specific Requirements) Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
<p>3. First attempts at repair include, but are not limited to, the following best practices where practicable:</p> <ol style="list-style-type: none"> 1. Tightening of bonnet bolts; 2. Replacement of bonnet bolts; 3. Tightening of packing gland nuts; 4. Injection of lubricant into lubricated packing. [Reference: 7 DE Admin. Code 1124, Section 29, dated 11/29/94 and 40 CFR 60, Subpart VV, §60.482-6(a) dated 12/14/00 and 40 CFR 63.648(a)(1) dated 8/18/98] <p>D. Any valve that is designated for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of Operational Standard (A) of this section if the valve:</p> <ol style="list-style-type: none"> 1. Has no external actuating mechanism in contact with the process fluid, 2. Is operated with emissions less than 500 ppm above background as determined by the method specified in 40 CFR 60, Subpart VV, § 60.485(c), dated 7/1/00, and 3. Is tested for compliance with paragraph (D)(2) initially upon designation, annually, and at other times requested by the Department. <p>[Reference: 7 DE Admin. Code 1124, Section 29, dated 11/29/94 and 40 CFR 60, Subpart VV, §60.482-</p>	<p>C. 1. Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, beginning with the next quarter, until a leak is detected.</p> <p>2. If a leak is detected, the valve shall be monitored monthly until a leak is not detected for 2 successive months.</p> <p>[Reference: 7 DE Admin. Code 1124, Section 29, dated 11/29/94 and 40 CFR 60, Subpart VV, §60.482-6(a) dated 12/14/00]</p> <p>iv. Recordkeeping None in addition to the requirements of Section 12 of this unit.</p>	

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Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Condition 3 - Table 1 (Specific Requirements) Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
<p><i>6(a) dated 12/14/00 and 40 CFR 63.648(a)(1), dated 8/18/98]</i></p> <p>E. Any valve that is designated as an unsafe-to-monitor valve is exempt from the requirements of Operational Standard (A) if:</p> <ol style="list-style-type: none"> 1. The Owner/Operator of the valve demonstrates that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with paragraph (A), and 2. The Owner/Operator of the valve adheres to a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor times. [Reference: 7 DE Admin. Code 1124, Section 29, dated 11/29/94 and 40 CFR 60, Subpart VV, §60.482-5(e) dated 12/14/00 and 40 CFR 63.648(a)(1) dated 8/18/98] <p>F. Any valve that is designated as a difficult-to-monitor valve is exempt from the requirements of Operational Standard (A) if:</p> <ol style="list-style-type: none"> 1. The Owner/Operator of the valve demonstrates that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface. 2. The Owner/Operator designates less than 3.0 percent of the total 		

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Condition 3 - Table 1 (Specific Requirements)

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
<p>number of valves as difficult-to-monitor, and</p> <p>3. The Owner/Operator follows a written plan that requires monitoring of the valve at least once per calendar year. [Reference: 7 DE Admin. Code 1124, Section 29, dated 11/29/94 and 40 CFR 60, Subpart VI, §60.482-6(a) dated 12/14/00 and 40 CFR 63.648(a)(1) dated 8/18/98]</p>		
<p>7. Pumps and Valves in Heavy Liquid Service, Pressure Relief Devices in Light Liquid or Heavy Liquid Service, and Flanges Connectors.</p> <p>i. Operational Standards</p> <p>A. If evidence of a potential leak is found by visual, audible, olfactory, or other detection method at pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid services, and connectors, the Owner/Operator shall follow either one of the monitoring requirements in part (iii)(A) of this section. [Reference: 7 DE Admin. Code 1124, Section 29 dated 11/29/94 and 40 CFR 60, Subpart VI, §60.482-8(a) dated 12/14/2000].</p>	<p>ii. Compliance Method</p> <p>Compliance with operational standards of this condition shall be demonstrated in accordance with the monitoring/testing and recordkeeping requirements of this section. [Reference: 7 DE Admin. Code 1130, Section 6.1.3 dated 12/11/00]</p> <p>iii. Monitoring/Testing</p> <p>A. 1. The Owner/Operator shall monitor the equipment within 5 days by the method specified in 40 CFR 60.485(b) and comply with the requirements of paragraphs (B) through (D) below [Reference: 7 DE Admin. Code 1124, Section 29 dated 11/29/94 and 40 CFR 60, Subpart VI, §60.482-8(a)(1), dated 12/14/00].</p> <p>2. The Owner/Operator shall eliminate the visual, audible, olfactory, or other indication of a potential leak. [Reference: 7 DE Admin. Code 1124, Section 29 dated 11/29/94 and 40 CFR 60, Subpart VI, §60.482-8(a)(2), dated 12/14/00].</p> <p>B. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.</p>	<p>vi. Reporting</p> <p>That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit and the following: [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>A. RESERVED</p> <p>B. Other reporting requirements are covered under Section 13 of this unit.</p> <p>vi. Certification</p> <p>That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>

Condition 3 – Table 1 (Specific Requirements)

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p>[RESERVED]</p> <p>ii. Operational Limitations: [RESERVED]</p>	<p>[RESERVED]</p> <p>iv. Monitoring/Testing: [RESERVED]</p> <p>v. Recordkeeping: A. [RESERVED]</p>	<p>A. [RESERVED]</p> <p>vii. Certification: [RESERVED]</p>
<p>d. Emission Unit 84: Combined Cycle Units 84-1 and 84-2 (Emission Points 84-1 and 84-2)</p> <p>1. Conditions Applicable to Multiple Pollutants:</p> <p>i. Emission Standards: <i>[Reference APC- 970503/4101]</i></p> <p>A. The Owner/Operator shall not cause or allow emissions from the CCUs that exceed the Standards of Performance for New Stationary Gas Turbines specified in 40 CFR 60 Subpart GG. <i>[Reference 40 CFR 60 Subpart GG dated 09/10/1979 for SO₂ and dated 10/17/2000 for NO_x and 7 DE Admin. Code 1120 Section 10 dated 11/27/1985]</i></p> <p>B. The Owner/Operator shall not cause or allow emissions from the duct burners that exceed the Standards of Performance for Electric Utility Steam Generating Units specified in 40 CFR 60 Subpart Dd. <i>[Reference 40 CFR 60 Subpart Dd dated 10/17/2000 for SO₂ and particulate matter and dated 08/14/2001 for NO_x and 7 DE Admin. Code 1120 Section 26 dated 12/07/1988]</i></p> <p>C. The Department reserves the right to establish emission limitations and/or</p>	<p>iii. Compliance Method: <i>[Reference APC- 970503/4101]</i></p> <p>A. Compliance with the Emission Standards (A) and (B) (NSPS limits) shall be based on the type of fuel combusted and/or compliance with the more stringent emission limits specified for individual pollutants for these units.</p> <p>B. Compliance with the Operational Limitations (A) and (C) (pertaining to type and amount of fuel burned) shall be based on record keeping requirements.</p> <p>C. [RESERVED]</p> <p>D. [RESERVED]</p> <p>E. [RESERVED]</p> <p>F. Comply with "Combined Limits" in Condition 3 - Table 1.f.</p> <p>G. Compliance with Operational Limitation I shall be based on compliance with Table 1.d.4.i.c.</p>	<p>i. Reporting:</p> <p>In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: <i>[Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p> <p>A. [RESERVED]</p> <p>B. The Owner/Operator shall notify the Department in writing prior to making any material changes which cause these units to fall under the Authority of Title IV of the Clean Air Act. <i>[Reference APC- 970503 /43]</i></p> <p>C. Comply with "Combined Limits" in Condition 3 - Table 1.f.</p> <p>D. The owner/operator shall notify the Department within thirty (30) days of determination that an SCR system governed by this permit will be unavailable for a period exceeding 2 consecutive days. Such notifications</p>

Condition 3 – Table 1 (Specific Requirements)

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
	<p>B. If visible emissions are observed, the Company shall take corrective actions and/or conduct a visible observation in accordance with paragraph D below.</p> <p>C. If no visible emissions are observed, no further action is required.</p> <p>D. If required by paragraph B above, the Company shall, in accordance with subsection 1.5(c) of 7 DE Admin. Code 1120, conduct visible observations at fifteen-second intervals for a period of not less than one hour except that the observations may be discontinued whenever a violation of the standard is recorded. The additional procedures, qualifications and testing to be used for visually determining the opacity shall be those specified in Section 2 and 3 (except for Section 2.5 and the second sentence of Section 2.4) of Reference Method 9 set forth in Appendix A of 40 CFR Part 60, revised July 1, 1982.</p> <p>v. Recordkeeping: In addition to complying with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.d.1.v (EU-84), the Owner/Operator shall keep a log of daily qualitative stack observations for each CCU.</p>	
10. Sulfuric Acid Mist (H ₂ SO ₄)		

Condition 3 – Table 1 (Specific Requirements)

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p>i. Emission Limitation: H₂SO₄ as measured by the average of the three stack test runs shall not exceed 43.1 tons per year. <i>[Reference APC-97/0503(A10)]</i></p>	<p>ii. Compliance Method: <i>[Reference APC-97/0503(A10)]</i></p> <p>A. Compliance with the H₂SO₄ Emission Standards shall be demonstrated using stack test based emissions factors and fuel flow rates for the CCUs and duct burners.</p> <p>B. The Owner/Operator may use stack test results obtained while the CCUs are operating with duct burners to demonstrate compliance with the respective non-duct burner emission standards for H₂SO₄ by subtracting the heat input of the duct burners.</p>	<p>v. Reporting: In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: <i>[Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p> <p>A. Comply with "Conditions Applicable to Multiple Pollutants" in Part 3, Condition 3 - Table 1.d.1.vi (EU-84).</p>
	<p>iii. Monitoring/Testing:</p> <p>A. The Owner/Operator shall conduct annually an EPA Reference Method 8 stack test for H₂SO₄, in accordance with Condition 3(b). The Owner/Operator may petition the Department to decrease the frequency of H₂SO₄ performance tests based on the results of any performance testing.</p> <p>B. If the Owner/Operator conducts stack testing with the duct burners in operation, the Owner/Operator shall calculate the emission rate for operation without duct burner operation by subtracting the heat input contributed by the duct burners.</p>	<p>vi. Certification: That required by Condition 3(c)(3) of this permit. <i>[Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p>

ATTACHMENT 2

Regulation 1102 Operating Permits



STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES
& ENVIRONMENTAL CONTROL
DIVISION OF AIR QUALITY
STATE STREET COMMONS
100 W. Water Street, Suite 6A
DOVER, DELAWARE 19904

Telephone: (302) 739 - 9402
Fax No.: (302) 739 - 3106

October 19, 2017

Permit: **APC-1995/0471-CONSTRUCTION/OPERATION (A5)(LAER)(MACT)(NSPS) – MVRs**
Permit: **APC-1980/0868-CONSTRUCTION/OPERATION (A5)(MACT)(VOC RACT) – Tank 206**
Permit: **APC-1980/0869-CONSTRUCTION/OPERATION (A7)(MACT)(VOC RACT) – Tank 225**

Delaware City Refinery – Ethanol Marketing Project

Delaware City Refining Company
4550 Wrangle Hill Road
Delaware City, DE 19706

ATTENTION: Jeffery Coleman
Refinery Manager

Dear Mr. Coleman:

Pursuant to 7 DE Admin. Code 1102, Section 2 and 11 and 7 DE Admin. Code 1130 section 7.10, approval of the Department of Natural Resources and Environmental Control is hereby granted for the construction and operation of the Ethanol Marketing Project to allow a combined total loading of up to 10,000 BPD, on an annual average basis, of ethanol onto marine vessels at the Marine Piers and the Terminal Truck Loading Rack by:

- Increasing ethanol throughput up to 12,300 BPD at Tank 206-TF-112,
- Modifying Tank 225-TF-133 to allow for storage and up to 10,000 BPD throughput of ethanol,
- Adding capability to deliver ethanol to the piers for marine vessel loading and the Terminal Rack for truck loading from Tanks 206-TF-112 and Tank 225-TF-133,
- Installation of lines to the Marnie Vapor Recovery System at the piers to ensure proper control of ethanol vapors being loaded to these units,

all located at the Delaware City Refinery in accordance with the application submitted on Form NOs AQM-1, AQM-2, AQM-3.1, AQM-4.1, AQM-4.2, and AQM-5 dated August 15, 2016 and signed by Jose Dominguez, Refinery Manager, cover letter dated August 18, 2016 and letter dated December 2, 2016 signed by Larry Boyd, Environmental Engineer.

This permit is issued subject to the following conditions¹:

¹ These permits supplement Permit: **APC-1980/0868-O (A3) – Product Tank Farm** dated June 22, 2012, Permit: **APC-1980/0869-O (A3) – Intermediate Tank Farm** dated June 22, 2012, and Permit: **APC-1995/0471-O(A3) – MVR System** dated May 31, 2013, and follow the same numbering sequence.

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Delaware City Refining Company

Ethanol Marketing Project

Permit: APC-1995/0471-CONSTRUCTION/OPERATION (A5)(LAER)(MACT)(NSPS) – MVRs

Permit: APC-1980/0868-CONSTRUCTION/OPERATION (A5)(MACT)(VOC RACT) – Tank 206

Permit: APC-1980/0869-CONSTRUCTION/OPERATION (A7)(MACT)(VOC RACT) – Tank 225

October 19, 2017

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1. General Provisions

- 1.1. The Ethanol Marketing Project shall be constructed in accordance with the application and this permit. If any changes are necessary, revised plans must be submitted and supplemental approval issued prior to actual construction. Construction authorization expires 3 years after issuance of this permit.
- 1.2. The owner or operator shall submit a complete supplement to the Title V permit application pursuant to 7 **DE Admin. Code** 1130, Section 5(b) within 12 months of the date which the Ethanol Marketing Project commences operation. The application shall address all applicable requirements including those of 40 CFR Part 64 (Compliance Assurance Monitoring) if applicable.
- 1.3. The owner or operator shall not conduct loading of ethanol at the Marine Piers nor at the Sales Terminal until successful demonstration of the Vapor Vacuum Control System at the Sales Terminal and the subsequent issuance of the amended Sales Terminal operating permit.

2. Emission Limitations

- 2.1. Air contaminant emission levels shall not exceed those specified in the State of Delaware "**Regulations Governing the Control of Air Pollution**" and the following:
 - 2.1.1. The annual VOC emissions from Tank 206-TF-112 shall not exceed 0.82 tons on a 12 month rolling basis.
 - 2.1.2. The annual VOC emissions from Tank 225-TF-133 shall not exceed 0.50 tons on a 12 month rolling basis.
 - 2.1.3. Emissions from the MVR system shall meet those already specified in the existing permits for operations described above.

3. Operational Limitations

- 3.1. The Company shall comply with the following requirements:
 - 3.1.1. Tank 206-TF-112 shall be subject to the requirements of Conditions fd.1.ii, v, vii, the Monitoring/Testing Requirements of Condition fe.1.iv and the requirements of Condition fj.1 of **Permit: AQM-003/00016 – Part 1 (Renewal 2)** dated May 28, 2015.
 - 3.1.2. Tank 225 -TF-133 shall be subject to the Operational Limitations of Condition fd.1.ii, the Monitoring/Testing Condition fd.v, and the Reporting Requirements of Condition fd.1.vii of **Permit: AQM-003/00016 – Part 1 (Renewal 2)** dated May 28, 2015.

Delaware City Refining Company

Ethanol Marketing Project

Permit: APC-1995/0471-CONSTRUCTION/OPERATION (A5)(LAER)(MACT)(NSPS) – MVR5

Permit: APC-1980/0868-CONSTRUCTION/OPERATION (A5)(MACT)(VOC RACT) – Tank 206

Permit: APC-1980/0869-CONSTRUCTION/OPERATION (A7)(MACT)(VOC RACT) – Tank 225

October 19, 2017

Page 3

- 3.2 Barge loading of gasoline products (ethanol) shall not exceed the following rates:
 - 3.2.1 35,000 barrels hour when loading simultaneously at two piers; and
 - 3.2.2 25,000 barrels per hour at one pier.
 - 3.2.3 The rolling twelve month throughput of gasoline products (ethanol) shall not exceed 25,463,000 barrels.
- 3.3 The combined ethanol throughput at the Marine Piers and the Terminal Truck Rack shall not exceed an average of 10,000 BPD in any 12 consecutive months. [Reference: **Permit: APC-1988/0125-CONSTRUCTION (A6)(MACT)**]

4. Compliance Methodology

- 4.1 Compliance with Condition 3.1.1 shall be based on compliance with Conditions fd.1.iv and fj.1.vi of **Permit: AQM-003/00016 – Part 1 (Renewal 2)** dated May 28, 2015.
- 4.2 Compliance with Condition 3.1.2 shall be based on compliance with Conditions fd.1.iv.B and of **Permit: AQM-003/00016 – Part 1 (Renewal 2)** dated May 28, 2015.

5. Recordkeeping Requirements

- 5.1 The owner or operator shall maintain all records necessary for determining compliance with this permit in a readily accessible location for 5 years and shall make these records available to the Department upon written or verbal request.
- 5.2 The following information shall be recorded:
 - 5.2.1 Rolling 12 month throughput at Tank 206-TF-112.
 - 5.2.2 Rolling 12 month throughput at Tank 225-TF-133.
 - 5.2.3 Storage tank records required by Condition fd.1.vi, and Condition fj.1.iv in **Permit: AQM-003/00016 – Part 1 (Renewal 2)** dated May 28, 2015.
 - 5.2.4. Odor control records required by Condition fg.1.iv of **Permit: AQM-003/00016 – Part 1(Renewal 2)** dated May 28, 2015.

6. Reporting Requirements

- 6.1 Emissions in excess of any permit condition or emissions which create a condition of air pollution shall be reported to the Department immediately upon discovery and after activating the appropriate site emergency plan, in the following manner:
 - 6.1.1 By calling the Department's Environmental Emergency Notification and Complaint number (800) 662-8802, if the emission poses an imminent and substantial danger to public health, safety or to the environment.
 - 6.1.2 Other emissions in excess of any permit condition or emissions which create a condition of air pollution may be called in to the Environmental Emergency and Complaint number (800) 662-8802 or faxed to (302) 739-2466. The ability to fax in

Delaware City Refining Company

Ethanol Marketing Project

Permit: APC-1995/0471-CONSTRUCTION/OPERATION (A5)(LAER)(MACT)(NSPS) – MVRs

Permit: APC-1980/0868-CONSTRUCTION/OPERATION (A5)(MACT)(VOC RACT) – Tank 206

Permit: APC-1980/0869-CONSTRUCTION/OPERATION (A7)(MACT)(VOC RACT) – Tank 225

October 19, 2017

Page 4

notifications may be revoked upon written notice to the Company by the Department in its sole discretion.

- 6.2 In addition to complying with Condition 6.1 of this permit, the Owner/Operator shall satisfy any reporting required by the "Reporting of a Discharge of a Pollutant or an Air Contaminant" regulation, within 30 days of becoming aware of an occurrence subject to reporting pursuant to these conditions. All reports submitted to the Department shall be submitted in writing and shall include the following information:
- 6.2.1 The name and location of the facility;
 - 6.2.2 The subject source(s) that caused the excess emissions;
 - 6.2.3 The time and date of the first observation of the excess emissions;
 - 6.2.4 The cause and expected duration of the excess emissions;
 - 6.2.5 For sources subject to numerical emission limitations, the estimated rate of emissions (expressed in the units of the applicable emission limitation) and the operating data and calculations used in determining the magnitude of the excess emissions;
 - 6.2.6 The proposed corrective actions and schedule to correct the conditions causing the excess emissions.
 - 6.2.7 Emissions on the same day from the same emission unit may be combined into one report. Emissions from the same cause that occur contemporaneously may also be combined into one report.
 - 6.2.8 The Company shall submit an electronic copy of all required reports to the Department's compliance engineer assigned to the Refinery.

- 6.3 One original and one copy of all required reports shall be sent to the address below:

Division of Air Quality
State Street Commons
100 W. Water Street, Suite 6A
Dover, DE 19904

7. Administrative Conditions

- 7.1 This permit shall be made available on the premises.
- 7.2 Failure to comply with the provisions of this permit may be grounds for suspension or revocation.

Sincerely,



Angela D. Marconi, P.E., BCEE
Program Manager
Engineering & Compliance Branch

ADM:CRR:LTR
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pc: Dover Title V File/ Ravi Rangan



STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES
& ENVIRONMENTAL CONTROL
DIVISION OF AIR QUALITY
STATE STREET COMMONS
100 W. Water Street, Suite 6A
DOVER, DELAWARE 19904

Telephone: (302) 739 - 9402
Fax No.: (302) 739 - 3106

October 19, 2017

Permit: APC-1988/0125-CONSTRUCTION (Amendment 6)(MACT)

Delaware City Logistics Company
Delaware City Sales Terminal
River Road and J Street
Delaware City, DE 19706

ATTENTION: James Fedena
Vice President of Marketing and Logistics

Dear Mr. Fedena:

Pursuant to the State of Delaware Regulation No. 1102, Sections 2 and 12.3 and 7 **DE Admin. Code** 1130 Section 7.10, approval of the Department of Natural Resources and Environmental Control (the Department) is hereby granted for the construction of four (4) additional loading arms for each of lanes 4, 10 and 11 to load ethanol at the Terminal Unit 1 Truck Loading Rack and a vapor vacuum control system for loading lanes connected to the existing vapor recovery unit (VRU) located at the Delaware City Sales Terminal in Delaware City, Delaware, in accordance with the applications submitted on Form Nos. AQM-1, AQM-2, AQM-3.1, AQM-4.1, AQM-4.2, and AQM-5 dated August 11, 2016 signed by James Fedena, Vice President of Marketing and Logistics, cover letter dated August 18, 2016 signed by Tom Godlewski and letter dated December 2, 2016 signed by Larry Boyd.

This permit is issued subject to the following conditions:

1. General Provisions

- 1.1. This permit expires on October 19, 2020. If the equipment covered by this permit will not be constructed by October 19, 2020 a request to extend this construction permit must be submitted by October 19, 2019.
- 1.2. The project shall be constructed in accordance with the information described above. If changes are necessary, revised plans must be submitted and a supplemental approval issued prior to actual construction.
- 1.3. Representatives of the Department may, at any reasonable time, inspect this facility.
- 1.4. The owner or operator shall not initiate construction, install, or alter any equipment or facility or air contaminant control device which will emit or prevent

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the emission of an air contaminant prior to submitting an application to the Department pursuant to Regulation No. 1102, and, when applicable Regulation No. 1125, and receiving approval of such application from the Department; except as exempted in Regulation No. 1102 Section 2.2.

- 1.5. This permit may not be transferred to another location or to another piece of equipment or process.
- 1.6. This permit may not be transferred to another person, owner, or operator unless the transfer has been approved in advance by the Department. Approval (or disapproval) of the permit transfer will be provided by the Department in writing. A request for a permit transfer shall be received by the Department at least 30 days before the date of the requested permit transfer. This request shall include:
 - 1.6.1. Signed letters from each person stating the permit transfer is agreeable to each person; and
 - 1.6.2. An Applicant Background Information Questionnaire pursuant to 7 Del C, Chapter 79 if the person receiving the permit has not been issued any permits by the Department in the previous 5 years.
- 1.7. The applicant shall, upon completion, installation, or alteration, request in writing that the Department grant approval to operate.
 - 1.7.1. A separate application to operate pursuant to 7 **DE Admin. Code** 1102 does not need to be submitted to the Department for the equipment or process covered by this construction permit. Upon satisfactory demonstration by an on-site inspection that the equipment or process complies with all of the terms and conditions of this permit, the Department shall issue a 7 **DE Admin. Code** 1102 Operating Permit for this equipment or process.
 - 1.7.2. The applicant shall notify the Department sufficiently in advance of the demonstration and shall obtain the Department's prior concurrence of the operating factors, time period, and other pertinent details in relation to the demonstration.
 - 1.7.3. The provisions of 7 **DE Admin. Code** 1102, Sections 2.1 and 11.3 shall not apply to the operation of equipment or processes for the purpose of initially demonstrating satisfactory performance to the Department following construction, installation, modification, or alteration of the equipment or processes.
 - 1.7.4. The owner or operator shall not conduct loading of ethanol at the Marine Piers nor at the Sales Terminal until successful demonstration of the Vapor Vacuum Control System at the Sales Terminal and the subsequent issuance of the amended Sales Terminal operating permit.

2. Emission Limitations

- 2.1. Air contaminant emission levels shall not exceed those specified In the State of Delaware **"Regulations Governing the Control of Air Pollution"** and the following:
 - 2.1.1. The total annual VOC emissions from the loading rack and the vapor recovery unit (VRU) inclusive of the fugitive emissions shall not exceed 41.2 tons on a 12 month rolling basis.
 - 2.1.2. The annual fugitive emissions from the loading of gasoline and ethanol from the rack shall not exceed 4.4 tons on a 12 month rolling basis.
 - 2.1.3. VOC emissions from the VRU shall not exceed 1.1% measured as propane (dry) on a 60 minute rolling average basis.
 - 2.1.4. VOC emissions from the vapor collection and processing systems due to the loading of gasoline cargo tanks shall not exceed 10 mg/L of gasoline loaded.
- 2.2. Odors from this source shall not be detectable beyond the plant property line in sufficient quantities such as to cause a condition of air pollution.

3. Operational Limitations

- 3.1. The owner or operator shall comply with the following operational limits:
 - 3.1.1. Maximum throughput of gasoline shall not exceed 693,720,000 gallons in a rolling 12 month basis.
 - 3.1.2. The number of propane trucks loaded shall not exceed 15,000 in any 12 consecutive months.
 - 3.1.3. The combined ethanol throughput at the Marine Piers and the Terminal Truck Rack shall not exceed an average 10,000 barrels/day in any 12 consecutive months. [Reference: **Permit: APC-1995/0471-CONSTRUCTION/OPERATION (A5)(LAER)(MACT)(NSPS)**]
 - 3.1.4. The Sales Terminal shall not be operated unless the HEADAB or vapor combustion unit is operating properly.
 - 3.1.5. The vapor vacuum control system shall be available and operating properly at 100% capture efficiency at all times when the gasoline and ethanol loading takes place excluding maintenance periods. The system capture efficiency shall at no times be less than 98.7%.
 - 3.1.6. Each lane equipped to load gasoline or ethanol shall be equipped with a pressure gauge showing the operating pressure of the vapor vacuum control system at each loading lane. The pressure shall remain at or below the set point established by the testing in Condition 4.3, when in operation.

Permit: APC-1988/0125-CONSTRUCTION (Amendment 6)(MACT)

Delaware City Logistics Company

Ethanol Marketing Project

October 19, 2017

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- 3.2. At all times, including periods of startup, shutdown, and malfunction, the owner or operator shall, to the extent practicable, maintain and operate the facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
- 3.3. All structural and mechanical components of the equipment or process covered by this Permit shall be maintained in proper operating condition.

4. Testing and Monitoring Requirements

- 4.1. The Department reserves the right to require that the owner or operator perform emission tests using methods approved in advance by the Department.
- 4.2. VOC emissions from the VRU shall be continuously monitored by a continuous monitoring system (CMS). The facility shall operate and maintain, according to the manufacturer's specifications, the CMS as specified in 40 CFR 63.427(a)(1) and (4). Quality Assurance requirements for the VOC CMS shall be in accordance with the procedures described in 40 CFR 60 Appendix F.
- 4.3. No later than 180 days after initial startup of the vapor vacuum control system and every five (5) years thereafter, the owner or operator shall conduct a compliance demonstration in accordance with a protocol approved by the Department to demonstrate 100% capture efficiency of the vapor vacuum control system, establish the operating value for the vapor vacuum control system and furnish the Department with a written report of the results of such performance tests.

5. Record Keeping Requirements

- 5.1. The owner or operator shall maintain all records necessary for determining compliance with this permit in a readily accessible location for 5 years and shall make these records available to the Department upon written or verbal request.
- 5.2. The following information shall be recorded and maintained:
 - 5.2.1. All periods of operation during which the 60 minute rolling average VOC concentration in the exhaust gases are greater than 1.1% propane (dry).
 - 5.2.2. A log of all operating times of the VRU.
 - 5.2.3. A log of all operating times of the vapor vacuum control system.
 - 5.2.4. A log of maintenance activities related to the vapor vacuum control system.
 - 5.2.5. A log of the rolling 12 month total of propane trucks loaded.

- 5.2.6. A log of the rolling 12 month total of ethanol throughput.
- 5.2.7. A log of the pressure of the vapor vacuum control system at each of the loading lanes during loading of gasoline and ethanol.
- 5.3. The rolling 12 month total VOC emissions and fugitive VOC emissions shall be calculated and recorded each month.

6. Reporting Requirements

- 6.1. Emissions in excess of any permit condition or emissions which create a condition of air pollution shall be reported to the Department immediately upon discovery and after activating the appropriate site emergency plan, in the following manner:
 - 6.1.1. By calling the Department's Environmental Emergency Notification and Complaint number (800) 662-8802, if the emission poses an imminent and substantial danger to public health, safety or to the environment.
 - 6.1.2. Other emissions in excess of any permit condition or emissions which create a condition of air pollution may be called in to the Environmental Emergency and Complaint number (800) 662-8802 or faxed to (302) 739-2466. The ability to fax in notifications may be revoked upon written notice to the Company by the Department in its sole discretion
- 6.2. In addition to complying with Condition 6.1 of this permit, any reporting required by 7 Del C §6028 "**Reporting of a Discharge of a Pollutant or an Air Contaminant**", and any other reporting requirements mandated by the State of Delaware, the owner or operator shall, for each occurrence of excess emissions, within 30 calendar days of becoming aware of such occurrence, supply the Department in writing with the following information:
 - 6.2.1. The name and location of the facility;
 - 6.2.2. The subject source(s) that caused the excess emissions;
 - 6.2.3. The time and date of the first observation of the excess emissions; and
 - 6.2.4. The cause and expected duration of the excess emissions.
 - 6.2.5. For sources subject to numerical emission limitations, the estimated rate of emissions (expressed in the units of the applicable emission limitation) and the operating data and calculations used in determining the magnitude of the excess emissions; and
 - 6.2.6. The proposed corrective actions and schedule to correct the conditions causing the excess emissions.
- 6.3. One (1) original and one (1) copy of all required reports shall be sent to the address below:
Division of Air Quality
State Street Commons
100 W. Water Street, Suite 6A

Permit: APC-1988/0125-CONSTRUCTION (Amendment 6)(MACT)
Delaware City Logistics Company
Ethanol Marketing Project
October 19, 2017
Page 6

Dover, DE 19904

7. Administrative Conditions

- 7.1. This permit shall be made available on the premises.
- 7.2. Failure to comply with the provisions of this permit may be grounds for suspension or revocation.

Sincerely,



Angela D. Marconi, P.E., BCEE
Program Manager
Engineering & Compliance Branch

ADM:CRR:LTR
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pc: Dover Title V File
Ravi Rangan

ATTACHMENT 3

AQM-1001 Administrative Information

Regulation No. 30
Title V State Operating Permit Program
ADMINISTRATIVE INFORMATION
Air Quality Management Section

AQM-1001

ADMINISTRATIVE INFORMATION FOR:		FOR DEPARTMENT USE, ONLY	
<input type="checkbox"/> INITIAL APPLICATION <input checked="" type="checkbox"/> RENEWAL APPLICATION (check one) <input type="checkbox"/> MODIFICATION		I.D. NO.:	
		PERMIT NO.:	
		DATE: / /	
SOURCE INFORMATION			
1. SOURCE NAME: Delaware City Refining Company LLC Delaware City Refinery		2. DATE FORM COMPLETED: 05/08/2019	
3. SOURCE STREET ADDRESS: 4550 Wrangle Hill Road			
4. CITY: Delaware City	5. ZIP: 19706	6. COUNTY: NEW CASTLE	
7. PRIMARY STANDARD INDUSTRIAL CLASSIFICATION (SIC) CATEGORY: Petroleum Refining		8. PRIMARY SIC NO.: 2911	
9. SOURCE ENVIRONMENTAL CONTACT PERSON: Larry Boyd		10. CONTACT PERSON'S TELEPHONE NO.: (302) 836-6750	
OWNER INFORMATION			
11. NAME: Delaware City Refining Company LLC			
12. ADDRESS: 4550 Wrangle Hill Road			
13. CITY: Delaware City	14. STATE: DE	15. ZIP: 19706	
16. OWNERS AGENT (if applicable):			
OPERATOR INFORMATION			
17. NAME: Delaware City Refining Company LLC			
18. ADDRESS: 4550 Wrangle Hill Road			
19. CITY: Delaware City	20. STATE: DE	21. ZIP: 19706	
APPLICANT INFORMATION			
22. WHO IS THE PERMIT APPLICANT: (Check One) <input type="checkbox"/> OWNER <input checked="" type="checkbox"/> OPERATOR		23. ALL CORRESPONDENCE TO: (Check One) <input type="checkbox"/> OWNER <input checked="" type="checkbox"/> OPERATOR <input type="checkbox"/> SOURCE	
24. CONTACT PERSON NAME AND/OR TITLE: Larry Boyd FOR WRITTEN CORRESPONDENCE: Environmental Engineer			
25. TECHNICAL CONTACT FOR SUBMITTAL OF APPLICATION: Larry Boyd		26. CONTACT PERSON'S TELEPHONE NO.: (302) 836-6750	
27. TOTAL COST OF PLANT: \$ Not Applicable (Including property, buildings and air pollution control equipment, original cost basis) COST OF PROPOSED MODIFICATIONS: \$ Not Applicable (Modification Applications, Only)			

28. PRESENT STATUS OF EQUIPMENT (Check appropriate box(es) and complete applicable items)
OPERATING PERMIT:

☒ For existing plant, date construction completed (*original facility*) / / 1956

☐ Name change pending, effective date / /

CONSTRUCTION PERMIT (*for modifying sources*):

☐ Equipment to be modified or constructed Estimated Starting Date Estimated Completion Date

☐ Basic Equipment / / / /

☐ Air Pollution Control Equipment / / / /

☐ Change of Location Pending / / / /

29. ARE HAZARDOUS MATERIALS* OR COMPOUNDS OF SUCH MATERIALS ARE EMITTED INTO THE ATMOSPHERE FROM ANY OPERATION AT THIS LOCATION:

YES

*As defined in Section 112(b) of the November 15, 1990 Clean Air Act Amendments.

30. 1990 CLEAN AIR ACT AMENDMENTS, §112(r)

- a. The facility is subject to the requirements of §112(r) of the 1990 Clean Air Act Amendments.
- b. The facility has registered in compliance with the State of Delaware "Regulations for the Management of Extremely Hazardous Substances."

(if a registration has not been filed, a Compliance Schedule is required to be submitted with this Application).

31. 1990 CLEAN AIR ACT AMENDMENTS, Title VI Requirements

- a. Does your facility have any air conditioners or refrigeration equipment that uses CFCs, HCFCs or other ozone-depleting substances?

YES

- b. Does any air conditioner(s) or any piece(s) of refrigeration equipment contain a refrigerant charge greater than fifty (50) pounds?

YES

(If the answer is "YES," describe what type of equipment and how many units are at the facility).

- c. Do your facility personnel maintain, service, repair or dispose of any motor vehicle air conditioners (MVACs) or appliances? ("Appliance" and "MVAC", as defined at 40 CFR, Part 82.152)

NO

- d. Cite and describe which Title VI requirements, if any, are applicable to your facility. (i.e., 40 CFR, Part 82, Subparts A through G)

40 CFR 82, Subpart F

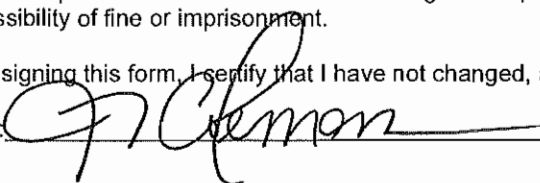
32. Complete the following table, indicating each Emission Unit and each Emission Point ID. Provide the Pint Description, and indicate which forms and other information are included as part of this application.

[illegible]

33. I, the undersigned, hereby certify under penalty of law that I am a Responsible Official and that I have personally examined and am familiar with the information submitted in this document and all of its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the information is, on knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false or incomplete information, including the possibility of fine or imprisonment.

By signing this form, I certify that I have not changed, altered, or deleted any portions of this application.

BY:



DATE: 5 / 10 / 2019

Jeffery Coleman
Typed or Printed Name of Signatory

Refinery Manager
Title of Signatory

AQM-1001 Checklist [1]

Text, Supplemental, Other [2]	X	X	X
Stack Test Results			
Emission Calculations			
Site Plan			
Process Flow Diagram			
AQM-1001CC Insignificant Activities			
AQM-1001BB Compliance Certification	X	X	X
AQM-1001Z Compliance Schedule			
AQM-1001Y Compliance Status			
AQM-1001X Compliance Monitoring Devices and Activities			
AQM-1001W Emissions Comparison			
AQM-1001V Applicable Requirements			
AQM-1001N GEP Stack Height Determinations			
AQM-1001M Compliance Schedule			
AQM-1001L Monitoring Equipment			
AQM-1001K Stack Parameters			
AQM-1001D Volatile Liquid Storage Tanks			
AQM-1001C Incinerators			
AQM-1001B Process			
AQM-1001A Combustion			
Source Description(s)	Tank 206-TF112	Tank 225-TF133	Marine Vapor Recovery System
Emission Point	Various	Various	15-1 & 15-2
Emission Unit	Tank 206-TF112	Tank 225-TF133	Marine Vapor Recovery System
DCP Unit Number	40	40	15

NOTE 1: Forms E, F, G, H, AND J are not applicable to Delaware City Refining Company, LLC. None of these processing operations occur at DCRC's Delaware City Refinery.
NOTE 2: For Text, Supplemental, Other, see Table of Contents
NOTE 3: X = included

ATTACHMENT 4

AQM-1001BB – Compliance Certification

**7 DE Admin. Code 1130
Title V State Operating Program
Air Quality Management Section**

AQM-1001BB
revised

COMPLIANCE CERTIFICATION

Form B

Updated July 1, 2008

For Permits Issued After May 12, 2008 Using New
Boilerplate Language

FOR DEPARTMENT USE, ONLY

DATE RECEIVED: _____

DATE REVIEWED: _____

REVIEWED BY: _____

An application for a permit, permit modification, or permit renewal must contain a certification of compliance signed by a *Responsible Official*. This form must be submitted with each application in addition to satisfying the compliance certification requirements of Regulation No. 30 (Title V) State Operating Permits. The Annual Compliance Certification report is due February 1 of each calendar year and covers the reporting period of January 1 through December 31 of the previous calendar year. This form also fulfills the requirement to certify compliance with applicable requirements at the time of the initial application request for a permit and for a significant or minor permit revision request. This form can also be used to certify compliance with the applicable requirements and terms and conditions of the operating permit as part of request for permit renewal.

This form has been designed for permits issued after May 12, 2008 that have new boilerplate language. Note: A limited number of permits issued soon after May 12, 2008 were in-process and contain the older language. If you are uncertain of which Compliance Certification form to use, ask your permitting engineer or scientist.

Part A: FACILITY INFORMATION

1. Facility Name: Delaware City Refining Company LLC

2. Facility Street Address: 4550 Wrangle Hill Road

3. City: Delaware City

4. State: DE

5. Zip Code: 19706

6. Are you submitting: (check only one box)

A. Compliance Certification as part of an Initial Permit Application: ☐

B. Compliance Certification as part of an Application for Permit Renewal: ☒

C. Annual Compliance Certification: ☐

D. Compliance Certification as part of an Application for a Minor or Significant Permit Revision: ☐

7. Permit No.: AQM-003/00016

8. Facility ID No.: 1000300016
(10 digits)

9. Date Permit Issued: 4/12/2018

10. What is the reporting period?

A. Annual Compliance Certification: N/A

B. Semi-Annual Report: N/A

Submitted using form AQM-1001BB:

If YES, Indicate the reporting period for the Semi-Annual Report:

/ / TO / /

11. Date Form
Prepared:

5/8/2019

12. Technical Contact: Larry Boyd
Phone No.: (302) 836-6750 ext.

Title: Environmental Engineer

Fax No.: (302) 836-6505 E-Mail Address: Larry.Boyd@pbfenergy.com

Part B: COMPLIANCE STATUS

1. Complete Table 1 – Compliance Status: Indicate the compliance status with respect to the terms and conditions of the Regulation No. 30 (Title V) State Operating Permit.

2. Complete Table 2 – Compliance Status – General Conditions: Indicate the Compliance Status with the General Conditions of the Regulation No. 30 (Title V) State Operating Permit.

3. Has any of the information contained in Items 1 through 5 of Part A and/or Part D, Responsible Official, information changed from that contained in the issued Regulation No. 30 (Title V) State Operating Permit?
No
If YES, submit a request for an administrative permit amendment per the requirements of Regulation No. 30 Section 7(c). Administrative Permit Amendment request submitted 9/13/2017 for Responsible Official change.

4. Semi-Annual Report: Completion of this section of the form fulfills the obligation of the facility to submit a Semi-Annual Report.

Complete Table 3, Report of Any Required Monitoring, and complete Table 4, Report of Deviations

Is the Responsible Official reporting any deviations for the reporting period? NOT APPLICABLE

7 DE Admin. Code 1130
(Title V) State Operating Permit Program
Air Quality Management Section

AQM-1001BB
revised

COMPLIANCE CERTIFICATION

Part C: ADDITIONAL INFORMATION

1. Does the Company possess any additional information that demonstrates noncompliance with any term or condition of the Regulation No. 30 (Title V) State Operating Permit? NO

If YES, complete Table 5 – Additional Information

2. Is the Company submitting any attachments with the annual certification report? NOT APPLICABLE

If YES, complete Table 6 – Additional Information

Part D: CERTIFICATION BY RESPONSIBLE OFFICIAL

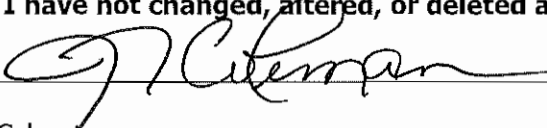
I, the undersigned, hereby certify under penalty of law that I am a Responsible Official and that I have personally examined and am familiar with the information submitted in the document and all of its attachments as to the truth, accuracy, and completeness of this information. I certify based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

I am submitting the Semi-Annual Report with the Annual Compliance Certification: NOT APPLICABLE

(Note: the Semi-Annual Report is due February 1st for the reporting period July 1st through December 31st and August 1st for the reporting period January 1st through June 30th of each calendar year.)

By signing this form, I certify that I have not changed, altered, or deleted any portions of this form.

Responsible Official Signature:



Responsible Official Name: Jeffery Coleman

Responsible Official Title: Refinery Manager

Phone Number: (302) 834-6400 ext.

Part E: SUBMITTAL INFORMATION

1. The Annual Compliance Certification report is due February 1 of each calendar year.

2. The Annual Compliance Certification should be submitted to the following locations:

Original and one (1) copy:

State of Delaware – DNREC
Division of Air Quality
State Street Commons
100 W. Water Street, Suite 6A
Dover, DE 19904
Attention: Division Director

One (1) copy:

United States Environmental Protection Agency
Associate Director of Enforcement (3AP12)
1650 Arch Street
Philadelphia, PA 19103

7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section COMPLIANCE CERTIFICATION (continued)	AQM-1001BB revised
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Facility Name: Delaware City Refining Company, LLC Operating Permit Number: AQM-003/00016 Reporting Period: NOT APPLICABLE

Table 1 – Compliance Status			
If you need additional space, use Table No. 5 or attach additional pages and label as Attachment 1 – Compliance Status			
COLUMN A	COLUMN B	COLUMN C	COLUMN D
Emission Unit Identification	Identification of Each Permit Term or Condition that is the basis of this Certification	Methods Used to Determine Compliance	Compliance Status During Reporting Period Continuous or Intermittent
	See Custom Form Attached		Continuous
			Continuous
			Continuous
			Continuous
			Continuous
			Continuous
			Continuous
			Continuous
			Continuous
			Continuous
			Continuous

<p align="center">7 DE Admin. Code 1130 (Title V) State Operating Permit Program Air Quality Management Section</p> <p align="center">COMPLIANCE CERTIFICATION (continued)</p>	<p align="center">AQM-1001BB revised</p>
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Facility Name: Delaware City Refining Company, LLC Operating Permit Number: AQM-003/00016 Reporting Period: NOT APPLICABLE

Table 2 – COMPLIANCE STATUS – GENERAL CONDITIONS If you need additional space, use Table No. 5 or attach additional pages and label as Attachment 2 – Compliance Status – General Conditions	
COLUMN A	COLUMN B
Permit Term or Condition	Compliance Determination Methodology/Compliance Status
<p>Condition No. 2(a)(2) Any report of deviations required under Conditions 3(c)(2)(ii) or 3(c)(2)(iii) that must be submitted to the Department within ten calendar days of the deviation, may be submitted in the first instance without a certification provided a certification meeting the requirements of Condition 2(a)(1) is submitted to the Department within ten (10) calendar days thereafter, together with any corrected or supplemental information required concerning the deviation.</p>	<p>1. Did you submit a report of deviations required under Condition 3(c)(2)(ii) and/or 3(c)(2)(iii)? N/A</p> <p>1.a. If you marked "YES" indicate the number of reports submitted and the date of each report: NOT APPLICABLE</p> <p>1.b. Did you submit any report identified above within ten (10) calendar days without a certification by the Responsible Official? NOT APPLICABLE</p> <p>1.c. If you marked "YES" to 1.b., indicate the reports that were submitted without the certification by the Responsible Official: NOT APPLICABLE</p> <p>1.d. If you marked "YES" to 1.b. did you submit a report meeting the requirements of Condition 2(a)(1) within ten (10) calendar days following the initial report for each of the reports identified in 1.c.? NOT APPLICABLE</p> <p>If you need additional space, complete Table No. 5.</p>

Table 2 – COMPLIANCE STATUS – GENERAL CONDITIONS

If you need additional space, use Table No. 5 or attach additional pages and label as Attachment 2 – Compliance Status – General Conditions

COLUMN A	COLUMN B
Permit Term or Condition	Compliance Determination Methodology/Compliance Status
<p>Condition No. 2(a)(3) Each document submitted to the Department/EPA pursuant to this permit shall be sent to the following addresses:</p> <p>State of Delaware – DNREC Division of Air Quality State Street Commons 100 W. Water Street, Suite 6A Dover, DE 19904 Attention: Division Director No. of Originals: 1 No. of Copies: 2</p> <p>United States Environmental Protection Agency Associate Director of Enforcement (3AP12) 1650 Arch Street Philadelphia, PA 19103 No. of Copies: 1</p>	<p>2.a. Did you submit any documents? NOT APPLICABLE</p> <p>2.b. If "YES," did you submit to both the Department and EPA using the addresses identified in your Operating Permit? NOT APPLICABLE</p> <p>2.c. Did you submit the correct number of copies for each and every submittal? NOT APPLICABLE</p> <p>2.d. If you marked "NO," to 2.b. and/or 2.c., are you now submitting the document(s) with the Annual Compliance Certification? NOT APPLICABLE</p> <p>If you marked "YES" to 2.d., use Table 6 to attach and identify those documents that are being submitted with the Annual Compliance Certification.</p>
<p>Condition No. 2(h) The Owner/Operator shall pay fees to the Department consistent with the fee schedule established by the Delaware General Assembly.</p>	<p>3. Did you pay fees to the Department consistent with the fee schedule established by the Delaware General Assembly? YES</p>

Table 2 – COMPLIANCE STATUS – GENERAL CONDITIONS

If you need additional space, use Table No. 5 or attach additional pages and label as Attachment 2 – Compliance Status – General Conditions

COLUMN A	COLUMN B
Permit Term or Condition	Compliance Determination Methodology/Compliance Status
<p>Condition No. 2(p) Risk Management Plan</p> <p>1. In the event this stationary source, as defined in the State of Delaware "Accidental Release Prevention (ARP) Regulation" Section 4, is subject to or becomes subject to Section 5 of the "ARP Regulation" (as amended March 11, 2006), the owner or operator shall submit a risk management plan (RMP) to the Environmental Protection Agency's RMP Reporting Center by the date specified in Section 5.10 and required revisions as specified in Section 5.190. A certification statement shall also be submitted as mandated by Section 5.185.</p> <p>2. If this stationary source, as defined in the State of Delaware "ARP Regulation" Section 4, is not subject to Section 5 but is subject or becomes subject to Section 6 of the "ARP Regulation" (as amended March 11, 2006), the owner or operator shall submit a Delaware RMP to the State of Delaware Accidental Release Prevention Group by the date specified in Section 6.6.10 and required revisions as specified by Section 6.6.1.</p>	<p>4. Are you subject to Section 5 of the "ARP Regulation"? YES</p> <p>4.a. If you marked "YES" did you submit the following:</p> <p>4.a.1. A risk management plan by the date specified in Section 5.10? YES</p> <p>4.a.2. Required Revisions as specified in Section 5.190? YES</p> <p>4.a.3. A certification statement as mandated by Section 5.185? YES</p> <p>4.b. If you marked "NO" to 4.a. did you submit a compliance schedule to the Department pursuant to Regulation No. 30 Section 5(d)(8)? NOT APPLICABLE</p> <p>5. Are you subject to Section 6 of the "ARP Regulation"? YES</p> <p>5.a. If you marked "YES" did you submit the following:</p> <p>5.a.1. A Delaware RMP by the date specified in Section 6.10? YES</p> <p>5.a.2. Required revisions as specified by Section 6.60(j)? YES</p> <p>5.b. If you marked "NO" to 5.a. did you submit a compliance schedule to the Department pursuant to Regulation No. 30 Section 5(d)(8)? NOT APPLICABLE</p> <p>6. Are you subject to the provisions of Stratospheric Ozone, 40 CFR Part 82? YES</p> <p>6.a. If you marked "YES" complete Table 1 and indicate your compliance status with respect to each permit term and condition.</p>

Table 2 – COMPLIANCE STATUS – GENERAL CONDITIONS

If you need additional space, use Table No. 5 or attach additional pages and label as Attachment 2 – Compliance Status – General Conditions

COLUMN A	COLUMN B
Permit Term or Condition	Compliance Determination Methodology/Compliance Status
<p>Condition 3(b) Compliance Determination Methodology The Owner/Operator shall maintain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all original strip chart recordings, where appropriate, for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, the permit may specify that records may be maintained in computerized form.</p>	<p>7. Are you maintaining records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application? YES</p>
<p>Condition 3(b)(1)(i) The Owner/Operator shall comply with the operational limitations, monitoring, testing, and record keeping requirements detailed in Condition 3 – Table 1 which are in addition to those in Conditions 3(b)(1)(ii) and 3(b)(2).</p>	<p>8. Did you comply with each Compliance Determination Methodology (i.e. did you conduct the compliance determination methodology as frequently and in the manner specified by the operating permit) specified in Condition 3 – Table 1 for each associated permit term and condition? NOT APPLICABLE</p>

Table 2 – COMPLIANCE STATUS – GENERAL CONDITIONS

If you need additional space, use Table No. 5 or attach additional pages and label as Attachment 2 – Compliance Status – General Conditions

COLUMN A	COLUMN B															
Permit Term or Condition	Compliance Determination Methodology/Compliance Status															
Condition 3(b)(1)(ii) General Testing Requirements Upon written request of the Department, the Owner/Operator shall, at the Owner/Operator's expense, sample the emissions of, or fuel used by, an air contaminant emission source, maintain records and submit reports to the Department on the results of such sampling.	<div>9. Did the Department request that you conduct any sampling of emissions or fuel used? NO</div> <div>9.a. If you marked "YES," provide a brief description of the testing requirement:<table><thead><tr><th>Emission Unit ID</th><th>Date of Sampling</th><th>Compliance Status</th></tr></thead><tbody><tr><td></td><td></td><td>NOT APPLICABLE</td></tr><tr><td></td><td></td><td>NOT APPLICABLE</td></tr><tr><td></td><td></td><td>NOT APPLICABLE</td></tr><tr><td></td><td></td><td>NOT APPLICABLE</td></tr></tbody></table></div> <div>If you need additional space, provide information in Table No. 5.</div> <div>9.b. If you marked "YES," did you conduct the sampling in the timeframe and by the protocol established by the Department for each test required? NOT APPLICABLE</div> <div>9.c. If you marked "YES," did you submit reports to the Department of the results for each test required? NOT APPLICABLE</div> <div>9.d. If you marked "YES," are you maintaining records for each test required? NOT APPLICABLE</div> <div>9.e. If you marked "NO" to 9.b., 9.c., and/or 9.d., submit a deviation report for each and every deviation. Use Table 4 to complete this information.</div>	Emission Unit ID	Date of Sampling	Compliance Status			NOT APPLICABLE			NOT APPLICABLE			NOT APPLICABLE			NOT APPLICABLE
Emission Unit ID	Date of Sampling	Compliance Status														
		NOT APPLICABLE														
		NOT APPLICABLE														
		NOT APPLICABLE														
		NOT APPLICABLE														

Table 2 – COMPLIANCE STATUS – GENERAL CONDITIONS

If you need additional space, use Table No. 5 or attach additional pages and label as Attachment 2 – Compliance Status – General Conditions

COLUMN A	COLUMN B
Permit Term or Condition	Compliance Determination Methodology/Compliance Status
<p>Condition 3(b)(2)(i) General Record Keeping Requirements</p> <p>If required, for each operating scenario identified in Condition 3 – Table 1 of this permit, a log that indicates the operating scenario under which each particular emission unit is operating. The Owner/Operator shall, contemporaneously with changing from one operating scenario to another, record in this log the scenario under which it is operating.</p>	<p>10. Does your permit contain Alternate Operating Scenarios in Condition 3 – Table 1? NO</p> <p>10.a. If you marked "YES," identify the emission units and the Alternate Operating Scenario(s) for each emission unit: NOT APPLICABLE</p> <p>10.b. If you marked "YES," to 10 did you maintain a log for each emission unit and corresponding Alternate Operating Scenario? NOT APPLICABLE</p> <p>10.c. If you marked "YES," to 10 did you contemporaneously with changing from one operating scenario to another, record in this log the scenario under which the emission unit is operating for each emission unit and corresponding Alternate Operating Scenario? NOT APPLICABLE</p> <p>10.d. If you marked "NO" to 10.b. and/or 10.c., complete Table No. 4.</p>
<p>Condition 3(b)(2)(ii) General Record Keeping Requirements</p> <p>The following information to the extent specified in Condition 3 – Table 1 of this permit.</p> <p>A. The date, place, and time of the sampling or measurements.</p> <p>B. The date(s) analyses were performed.</p> <p>C. The Owner/Operator or entity that performed the analysis.</p> <p>D. The analytical techniques or methods used.</p> <p>E. The results of such analyses.</p> <p>F. The operating conditions as existing at the time of sampling or measurement.</p>	<p>11. Are you maintaining the information required? YES</p>
<p>Condition 3(b)(2)(iv)</p> <p>A copy of the written notice request by Condition 3(c)(2)(iii) for each change made for each change made under Condition 4(c) [Operational Flexibility] of this permit shall be maintained with a copy of the permit.</p>	<p>12. Are you maintaining a copy of the written notice for each change made under Condition 4(c) [Operational Flexibility] with a copy of the permit? YES</p>

Table 2 – COMPLIANCE STATUS – GENERAL CONDITIONS

If you need additional space, use Table No. 5 or attach additional pages and label as Attachment 2 – Compliance Status – General Conditions

COLUMN A	COLUMN B
Permit Term or Condition	Compliance Determination Methodology/Compliance Status
<p>Condition 3(c)(1) Specific Reporting/Certification Requirements</p> <p>The Owner/Operator shall comply with the Reporting/Certification Requirement(s) detailed in Condition 3 – Table 1 of this permit, which are in addition to those of Conditions 3(c)(2) and 3(c)(3). Each report that contains any deviation(s) from the terms of Condition 3 – Table 1 shall identify the probable cause of the deviation(s) and any corrective action(s) or preventative measure(s) taken.</p>	<p>13.a. Did you comply with the Reporting/Certification Requirement(s) detailed in Condition 3 – Table 1 of your Operating Permit? NOT APPLICABLE</p> <p>13.b If you marked "NO," did you submit deviation report(s) for each instance where the Reporting/Certification requirements detailed in Condition 3 – Table 1 were not met? NOT APPLICABLE</p> <p>13.c If you marked "NO," to 13.b, are you submitting the information with this Annual Compliance Certification? NOT APPLICABLE</p>
<p>Condition 3(c)(2)(i) General Reporting Requirements</p> <p>The Owner/Operator shall submit to the Department a report of any required monitoring not later than the first day of August (covering the period from January 1 through June 30) and the first day of February (covering the period from July 1 through December 31) of each calendar year. Each report shall identify any deviation(s) from permit requirements since the previous report, any deviation(s) from the monitoring, record keeping and reporting requirements under this permit, and the probable cause of the deviation(s) and any corrective actions or preventative measures taken. If no deviation(s) has occurred such shall be stated in the report.</p>	<p>14. For the reporting period of this compliance certification, did you submit the Semi-Annual Reports by the deadlines specified in the permit? NOT APPLICABLE</p> <p>14.a. If you marked "NO," did you submit the Semi-Annual Report to the Department? NOT APPLICABLE</p> <p>14.b. If you marked "YES" to 14.a., please identify the report(s) that were submitted late: NOT APPLICABLE</p> <p>If you marked "NO" to 14.a., submit a compliance schedule to submit the Semi-Annual Report(s) to the Department. Attach the compliance schedule and label as Attachment No. AQM-1001BB-1.</p>

Table 2 – COMPLIANCE STATUS – GENERAL CONDITIONS

If you need additional space, use Table No. 5 or attach additional pages and label as Attachment 2 – Compliance Status – General Conditions

COLUMN A	COLUMN B
Permit Term or Condition	Compliance Determination Methodology/Compliance Status
<p>Condition 3(c)(2)(ii)(A) In addition to the semi-annual monitoring reports required under Condition 3(c)(2)(i), the Owner/Operator shall submit to the Department supplemental written report(s)/notice(s) identifying all deviations from permit conditions, probable cause of the deviation(s), and any corrective actions or preventative measures as follows: If the Owner/Operator is claiming the affirmative defense of emergency or malfunction as provided in Condition 2(b)(5) of this permit, a notice of any deviation resulting from emergency or malfunction conditions shall be reported to the Department within two (2) working days of the time when the technology-based emission limitations were exceeded. Such notice shall contain a description of the emergency or malfunction, any steps taken to mitigate emissions, and any corrective actions taken.</p>	<p>15. Did you submit any claims of affirmative defense of emergency or malfunction as provided in Condition 2(b)(5) of the operating permit? NOT APPLICABLE</p> <p>15.a. If you marked "YES," identify the notice(s) submitted to the Department including the date of the emergency or malfunction, date notice submitted to the Department and a brief description of the malfunction: NOT APPLICABLE</p>
<p>Condition 3(c)(2)(ii)(B) In addition to the semi-annual monitoring reports required under Condition 3(c)(2)(i), the Owner/Operator shall submit to the Department supplemental written report(s)/notice(s) identifying all deviations from permit conditions, probable cause of the deviations, and any corrective actions or preventative measures as follows: Emission in excess of any permit condition or emissions which create a condition of air pollution shall be reported to the Department immediately upon discovery and after activating the appropriate site emergency plan, in the following manner: 1. Emissions that pose an imminent and substantial danger to public health, safety or the environment must be reported by calling the Department's Environmental Emergency Notification and Complaint Number (800) 662-8802. 2. Emissions in excess of any permit condition or emissions which create a condition of air pollution but do not pose an imminent and substantial danger to public health, safety or the environment must either be called in to the Environmental Emergency Notification and Complaint number (800) 662-8802 or faxed to (302) 739-2466. The ability to fax notifications to the Department may be revoked by the Department upon written notice to the Company and at the Department's sole discretion.</p>	<p>16. Did you report any emissions in excess of any permit condition or emissions which create a condition of air pollution in accordance with Condition 3(c)(2)(ii)(B)? NOT APPLICABLE</p> <p>If you marked "YES," identify the report(s) submitted to the Department including the date of the emissions in excess of any permit condition or emissions which create a condition of air pollution, date of report, and a brief description of the incident: NOT APPLICABLE</p>

Table 2 – COMPLIANCE STATUS – GENERAL CONDITIONS

If you need additional space, use Table No. 5 or attach additional pages and label as Attachment 2 – Compliance Status – General Conditions

COLUMN A	COLUMN B
Permit Term or Condition	Compliance Determination Methodology/Compliance Status
<p>Condition 3(c)(2)(ii)(C) All emissions in excess of any permit condition or emissions which create a condition of air pollution shall be reported to the Department in a written report pursuant to Condition 3(c)(2)(i) and/or the specific reporting requirements listed in Condition 3 – Table 1 of this permit.</p>	<p>17. Did you report any emissions in excess of any permit conditions or emissions which created a condition of air pollution in a written report pursuant to Condition 3(c)(2)(i) and/or the specific reporting requirements listed in Condition 3 – Table 1? NOT APPLICABLE</p> <p>17.b. If you marked "YES," identify the reports submitted to the Department: NOT APPLICABLE</p>
<p>Condition 3(c)(2)(ii)(D) Discharges to the atmosphere in excess of any quantity specified in the 7 Del. C, Section 6208 ("<u>Reporting of a Discharge of a Pollutant or an Air Contaminant</u>") shall be reported, immediately upon discovery and after activating the appropriate site emergency plan, either in person or to the Department's 24 hour complaint line (1-800-662-8802). Discharges in compliance with this permit and excess emissions previously reported under Condition 3(c)(2)(ii)(B) of this permit are exempt from this reporting requirement.</p>	<p>18. Did you report any discharges to the atmosphere in excess of any quantity specified in the 7 Del. C, Section 6028 "<u>Reporting of a Discharge of a Pollutant or an Air Contaminant</u>" Regulation? NOT APPLICABLE</p> <p>18.a. If you marked "YES," identify the number of discharges reported including the date of discharge, reporting personnel, and date you reported: NOT APPLICABLE</p> <p>18.b. If you marked "YES," did you report immediately upon discovery and after activating the appropriate site emergency plan? NOT APPLICABLE</p> <p>17.c. If you marked "YES," did you report in person or to the Department's 24 hour complaint line? NOT APPLICABLE</p>
<p>Condition 3(c)(2)(iv) The Company shall submit to the Department an annual emissions statement in accordance with Regulation No. 17 Section 7 not later than April 30 of each year, or other date as established by the Department, unless an extension by the Department is granted. Such emissions statement shall cover the preceding calendar year.</p>	<p>19. Did you submit your annual emissions statement by the deadline as required by the Department? YES</p>

Table 2 – COMPLIANCE STATUS – GENERAL CONDITIONS

If you need additional space, use Table No. 5 or attach additional pages and label as Attachment 2 – Compliance Status – General Conditions

COLUMN A	COLUMN B
Permit Term or Condition	Compliance Determination Methodology/Compliance Status
<p>Condition 3(c)(2)(v) If required, the Owner/Operator shall submit to the Department a progress report for applicable requirement(s) identified in Condition 5 – Table 1 of this permit. Such reports shall be submitted not later than the first day of August (covering the period from January 1 through June 30 of the current calendar year) and the first day of February (covering the period July 1 through December 31 of the previous calendar year) of each calendar year. Each progress report shall include the following:</p> <p>A. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved.</p> <p>B. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative of corrective measures adopted.</p>	<p>20. Is Condition No. 5 applicable to this facility? NO</p> <p>20.a. If you marked "YES," did you submit the progress reports by August 1 (covering the period January 1 through June 30 of the current calendar year) and February 1 (covering the period July 1 through December 31 of the previous calendar year)? NOT APPLICABLE</p> <p>20.b. If you marked "NO" to 20.a., indicate the date the report(s) was submitted: NOT APPLICABLE</p> <p>20.c. If you marked "YES" to 20.a. did each progress report contain the information specified in Conditions 3(c)(2)(v)(A) and 3(c)(2)(v)(B)? NOT APPLICABLE</p>
<p>Condition 4(a) In addition to the operational flexibility specifically provided in the terms and conditions detailed in Condition 3 – Table 1 of this permit, the Company is authorized to make any changes within the facility which contravenes the terms and conditions of this permit without a permit revision if the change:</p> <ol style="list-style-type: none"> Is not a modification or otherwise prohibited under any provision of Title I of the Act or the State Implementation Plan (SIP); and Does not involve a change in any compliance schedule date; and Does not result in a level of emissions exceeding the emissions allowable under this permit, whether expressed herein as a rate of emissions or in terms of total emissions. 	<p>21. Did all requests submitted under Condition No. 4(a) meet the requirements specified in Condition 4(a)(1) through (3)? NOT APPLICABLE</p> <p>21.a. If you marked "NO," identify the request(s) that failed to meet the criteria and why. If you need additional space, use Table No. 5. NOT APPLICABLE</p>

Table 2 – COMPLIANCE STATUS – GENERAL CONDITIONS

If you need additional space, use Table No. 5 or attach additional pages and label as Attachment 2 – Compliance Status – General Conditions

COLUMN A	COLUMN B
Permit Term or Condition	Compliance Determination Methodology/Compliance Status
<p>Condition 4(b) Before making a change under the provisions of Condition 4(a) of this permit, the Owner and/or Operator shall provide advance written notice to the Department and to the EPA in accordance with Condition 3(c)(2)(iii) of this permit.</p>	<p>22. Did you submit any requests to the Department pursuant to this provision? NOT APPLICABLE</p> <p>22.a. If you marked "YES," provide the date of any and all submittals. Complete all information contained in Part B – Compliance Status – Table 1 for each submittal.</p> <p>NOT APPLICABLE</p>
<p>Condition No. 4(c) The Owner and/or Operator shall keep records of any change made under Condition 4 of this permit in accordance with Condition 3(b)(2)(iv) of this permit.</p>	<p>23. Did you submit a copy of each of the above requests to EPA? NOT APPLICABLE</p>
<p>Condition 3(c)(2)(iii) Prior to making a change as provided in Condition 4 [Operational Flexibility] of this permit the Owner/Operator shall give written notice to the Department and the EPA at least seven (7) calendar days before the change is to be made.</p>	<p>24. Are you maintaining records for each submittal? (Records are to be maintained for a minimum of five (5) years.) YES</p>
	<p>25. Did you make any changes as provided in Condition 4 [Operational Flexibility]? NOT APPLICABLE</p> <p>25.a. If you marked "YES," indicate the number of changes you requested, a brief description of the change, and the date of the request:</p> <p>NOT APPLICABLE</p> <p>25.b. If you marked "YES," did you submit written notice for each change to the Department and EPA Region III at least seven (7) calendar days before the change was made?</p> <p>NOT APPLICABLE</p> <p>25.c. If you marked "NO," proceed to question no. 25.</p>

Table 2 – COMPLIANCE STATUS – GENERAL CONDITIONS

If you need additional space, use Table No. 5 or attach additional pages and label as Attachment 2 – Compliance Status – General Conditions

COLUMN A	COLUMN B
Permit Term or Condition	Compliance Determination Methodology/Compliance Status
<p>Condition 3(c)(2)(iii)(A) The seven (7) day period may be shortened or eliminated as necessary for a change that must be implemented more quickly to address unanticipated conditions posing a significant health, safety, or environmental hazard.</p>	<p>26. Was the change as provided in Condition 4 [Operational Flexibility] shortened or eliminated in order to address unanticipated conditions posing a significant health, safety, or environmental hazard? NOT APPLICABLE</p> <p>26.a. If you marked "NO," state why the seven (7) day period was shortened or eliminated: NOT APPLICABLE</p>
<p>Condition 3(c)(2)(iii)(B) If less than seven (7) calendar days notice is provided because of a need to respond more quickly to such unanticipated conditions, the Company shall provide notice to the Department and to EPA as soon as possible after learning of the need to make the change, together with the reason(s) why advance notice could not be given.</p>	<p>27. Did you provide less than seven (7) calendar days notice for any notice submitted pursuant to Condition 4 [Operational Flexibility]? NOT APPLICABLE</p> <p>27.a. If you marked "YES," identify the notice(s) that were provided with less than seven (7) calendar days notice. Include the date of the notice and a brief description of the change. NOT APPLICABLE</p> <p>27.b. If you marked "YES," did you provide the Department and EPA with notice for each notice as soon as possible after learning of the need to make the change, together with the reason(s) why advance notice could not be given? NOT APPLICABLE</p>
<p>Condition 3(c)(2)(iii)(C) The written notice shall include all of the following information: 1. The identification of the affected emission unit(s) and a description of the change to be made. 2. The date on which the change will occur. 3. Any changes in emissions. 4. Any permit terms and conditions that are affected, including any new applicable requirements.</p>	<p>27. Did the written notice(s) include the information listed in Condition 3(c)(2)(iii)(C)? NOT APPLICABLE</p>

If you indicated a response of "NO" to any of the questions identified within Table No. 2, review and submit as "deviations" using Table No. 4 if the response indicates that a deviation occurred. If you have already reported the deviation, indicate the date and document under which the deviation was reported. If you need additional space to further explain any of your responses under Table No. 2, use Table No. 5.

Regulation No. 30 (Title V) State Operating Permit Program Air Quality Management Section		AQM-1001B (custom form)	
Facility Name: Delaware City Refining Co. LLC	Operating Permit Number: AQM-003/00016 - Parts 1, 2, & 3	Reporting Period: 1/1/2019 - 5/10/2019	

Table 1 (Custom Form) - Compliance Status

Permit Ref	Emission Unit	Source Des.	Emission Point	Requirement Parameter	Limit	Compliance Method	Monitoring Requirement	Monitoring Frequency	Record Keeping	Compliance Status
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PART ONE

Condition 3 Table 1(f)(1)(i)(A)-(I)	40	206-TF-112	Fugitives	VOC	Condition 3 Table 1(f)(1)(i)(A)-(I)	Monitoring/Testing & Record Keeping	Perform annual inspection of the floating roof, seals and fittings	Annually	Inspection Records	Continuous
Condition 3 Table 1(f)(1)(i)(A)-(I)	40	206-TF-112	Fugitives	VOC	Condition 3 Table 1(f)(1)(i)(A)-(I)	Monitoring/Testing & Record Keeping	Perform complete inspection of any cover and single seal per 40 CFR 63, Subpart CC.	Whenever employed for nonoperational reasons or once every 10 years, whichever is more frequent (single seals)	Inspection records	Continuous
Condition 3 Table 1(f)(1)(i)(A)-(I)	40	206-TF-112	Fugitives	VOC	Condition 3 Table 1(f)(1)(i)(A)-(I)	Monitoring/Testing & Record Keeping	Perform complete inspection of any cover and single seal per 40 CFR 63, Subpart CC.	Prior to filling the storage vessel with VOL.	Inspection records	Continuous
Condition 3 Table 1(f)(1)(i)(A)-(I)	40	225-TF-133	Fugitives	VOC	Condition 3 Table 1(f)(1)(i)(A)-(I)	Monitoring/Testing & Record Keeping	Perform annual inspection of the floating roof, seals and fittings	Annually	Inspection Records	Continuous
Condition 3 Table 1(f)(1)(i)(A)-(I)	40	225-TF-133	Fugitives	VOC	Condition 3 Table 1(f)(1)(i)(A)-(I)	Monitoring/Testing & Record Keeping	Perform complete inspection of any cover and single seal per 40 CFR 63, Subpart CC.	Whenever employed for nonoperational reasons or once every 10 years, whichever is more frequent (single seals)	Inspection records	Continuous
Condition 3 Table 1(f)(1)(i)(A)-(I)	40	225-TF-133	Fugitives	VOC	Condition 3 Table 1(f)(1)(i)(A)-(I)	Monitoring/Testing & Record Keeping	Perform complete inspection of any cover and single seal per 40 CFR 63, Subpart CC.	Prior to filling the storage vessel with VOL.	Inspection records	Continuous
Condition 3 Table 1(f)(1)(i)	40	206-TF-112	Fugitives	VOC	Emissions from Tank 206-TF-112 shall not exceed 0.82 tpy on a rolling 12 month basis.	TankESP Pro Version to estimate emissions from Tank 206 based on tank throughput.	Rolling 12 month throughput at Tank 206-TF-112; LDAR monitoring per 40 CFR 63.648 and 40 CFR 60.592.	Monthly	Results of the rolling twelve month VOC emissions, tank throughput records, a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid.	Continuous
Condition 3 Table 1(f)(1)(i)	40	225-TF-133	Fugitives	VOC	Emissions from Tank 225-TF-133 shall not exceed 0.50 tpy on a rolling 12 month basis.	TankESP Pro Version to estimate emissions from Tank 225 based on tank throughput.	Rolling 12 month throughput at Tank 225-TF-133; LDAR monitoring per 40 CFR 63.648 and 40 CFR 60.592.	Monthly	Results of the rolling twelve month VOC emissions, tank throughput records, a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid.	Continuous

Regulation No. 30 (Title V) State Operating Permit Program Air Quality Management Section		AQM-1001B (custom form)	
Facility Name: Delaware City Refining Co. LLC	Operating Permit Number: AQM-003/00016 - Parts 1, 2, & 3	Reporting Period: 1/1/2019 - 5/10/2019	

Table 1 (Custom Form) - Compliance Status

Permit Ref	Emission Unit	Source Des.	Emission Point	Requirement Parameter	Limit	Compliance Method	Monitoring Requirement	Monitoring Frequency	Record Keeping	Compliance Status
Condition 3 Table 1(f)(1)(i)	40	206-TF-112 & 225-TF-133	Fugitives	VOC	Control fugitive VOC emissions through implementation of LDAR requirements per 40 CFR 60. Subpart GGG for new and existing components in light liquid service and per 40 CFR 63 Subpart CC for new and existing components in light liquid HAP service.	Compliance for new components in light liquid HAP service shall be based on compliance with the standards in 40 CFR 63.646. Compliance with the standards in 40 CFR 60, Subpart GGG shall be based on the test methods and procedures in 40 CFR 60.592.	LDAR monitoring per 40 CFR 63.646 and 40 CFR 60.592.	Monthly	Results of the LDAR monitoring program pursuant to 40 CFR 60, Subpart GGG for existing components in light liquid service and in accordance with 40 CFR 63, Subpart CC for new components in light liquid service.	Continuous
Condition 3 Table 1(f)(1)(ii)(A)	40	206-TF-112 & 225-TF-133	Fugitives	VOC	A fixed roof with an internal floating type cover equipped with a continuous closure device between the tank wall and the cover edge. The cover is to be floating at all times, (i.e., off the leg supports) except during initial fill and when the tank is completely emptied	Testing procedures in 60.115a	Testing procedures in 60.115a	Per testing procedures in 60.115a	Results of monitoring and testing	Continuous
Condition 3 Table 1(f)(1)(ii)(B)	40	206-TF-112 & 225-TF-133	Fugitives	VOC	Each opening in the cover except for automatic bleeder vents and the rim space vents is to provide a projection below the liquid surface. Each opening in the cover except for automatic bleeder vents, rim space vents, stub drains and leg sleeves is to be equipped with cover, seal or lid	Testing procedures in 60.115a	Testing procedures in 60.115a	Per testing procedures in 60.115a	Results of monitoring and testing	Continuous
PART TWO										
Condition 3 Table 1 (aa)(1)(i)(F)(3)	10	Oil Water Sump/Sewer System	Fugitives	Benzene/VOC	Closed Vent System and Carbon Adsorption Control Devices: Operate and vent to carbon adsorption control devices at all times that waste is placed in the waste management unit, except when maintenance or repair of the waste management unit cannot be complete	Monitoring, recordkeeping and reporting. Operate and maintain closed vent system and carbon adsorption control devices	1) Daily monitoring of carbon canisters; 2) Periodic visual inspections; 3) Annual monitoring by Instrument; 4) Conduct laboratory audits of all laboratories that perform analysis of benzene NESHAP samples every two years or prior to using a new lab for analysis of benzene samples; 5) Identify and mark all area drains that are storm water drains. [Condition 3 - Table 1 (aa)(1)(iv)]	1) Daily; 2) Quarterly; 3) Annual; 4) biannually; 5) Quarterly	1) Carbon canister monitoring logs; 2) Inspection records; 3) Records of each test of no detectable emissions; 4) Lab audit records; 5) Engineering drawings and Visual round records	Continuous
Condition 3 Table 1 (b)(5)(iv)(A)(1)	15	Marine Piers Product Loading	15-1 or 15-2	VOC	Barge loading of gasoline products (ethanol) shall not exceed 35,000 bbl/hr when loading simultaneously at 2 piers	Monitoring/Testing and Recordkeeping	Monitor the hourly loading rate of all gasoline and ethanol at each pier during loading operations	Continuously	Hourly throughput, type of product, number of piers used and duration of each loading cycle (through data acquisition system).	Continuous
Condition 3 Table 1 (b)(5)(iv)(A)(2)	15	Marine Piers Product Loading	15-1 or 15-2	VOC	Barge loading of gasoline products (ethanol) shall not exceed 25,000 bbl/hr at one pier	Monitoring/Testing and Recordkeeping	Monitor the hourly loading rate of all gasoline and ethanol at each pier during loading operations	Continuously	Hourly throughput, type of product, number of piers used and duration of each loading cycle (through data acquisition system).	Continuous

Regulation No. 30 (Title V) State Operating Permit Program Air Quality Management Section		AQM-1001B (custom form)	
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Table 1 (Custom Form) - Compliance Status

Permit Ref	Emission Unit	Source Des.	Emission Point	Requirement Parameter	Limit	Compliance Method	Monitoring Requirement	Monitoring Frequency	Record Keeping	Compliance Status
Condition 3 Table 1 (b)(5)(ii)(B)	15	Marine Piers Product Loading	15-1 or 15-2	VOC	The rolling twelve month throughput of gasoline products (ethanol) shall not exceed 25,463,000 barrels	Monitoring/Testing and Recordkeeping	Monitor the hourly loading rate of all gasoline and ethanol at each pier during loading operations	Continuously	Hourly throughput, type of product, number of piers used and duration of each loading cycle (through data acquisition system)	Continuous
Condition 3 Table 1 (b)(5)(ii)(C)	15	Marine Piers Product Loading	15-1 or 15-2	VOC	The combined ethanol throughput at the Marine Piers and the Terminal Truck Rack shall not exceed an average of 10,000 BPD in any 12 consecutive months.	Monitoring/Testing and Recordkeeping	Monitor total loading of ethanol at the Marine Piers and the Terminal Truck Rack	Continuously	Rolling 12-month total throughput for Tank 206-TF-112 and Tank 225-TF-133.	Continuous
Condition 3 Table 1 (c)(1)(i)(D) & (c)(4)(i)(A)	21	21-H-701 & 21-H-2	21-1	NOx	0.04 lb/MMBtu heat input on a 3 hour rolling average and 20 lb/hour on a 24-hour rolling average (shall not apply for 24 hrs once fuel is started nor for 24 hrs once black oil charge to unit is stopped)	NOx and (CO2 or O2) CEMS	CEMS monitoring of NOx emissions (monitor NOx, and diluent (CO2 or O2)) (40 CFR 60 App. B)	Continuously	1) CEMS records (data, calibrations, and audit results); 2) Rolling 12-month emissions; 3) Factor adjustments, and the actual daily data capture	Continuous
Condition 3 Table 1 (c)(1)(i)(D) & (c)(4)(i)(B)	21	21-H-701 & 21-H-2	21-1	NOx	Comply with Facility-wide Emission Limit for NOx in Part 1, Condition 3, Table 1 j	NOx and (CO2 or O2) CEMS	CEMS monitoring of NOx emissions (monitor NOx, and diluent (CO2 or O2)) (40 CFR 60 App. B&F)	Continuously	1) CEMS records (data, calibrations, and audit results); 2) Rolling 12-month emission calculations; 3) Factor adjustments, and the actual daily data capture	Continuous
Condition 3 Table 1 (ea)	99	LDAR Components (Facility Wide)	Fugitives	VOC	Per LDAR Component Monitoring Program for Title V Part 2 Units	Per LDAR Component Monitoring Program	Per LDAR Component Monitoring Program	Per LDAR Component Monitoring Program	Per LDAR Component Monitoring Program	Intermittent
PART THREE										
Condition 3 Table 1 (dl)(10)(i)	86	CCU1 and CCU2	84-1; 84-4	H ₂ SO ₄	4.1 TPY from each CCU	Stack test based emission factors and fuel flow rates	Stack testing done in accordance with EPA Reference Method 8	Annual	Stack test results	Continuous