State of Delaware
Department of Natural Resources and Environmental Control
Division of Air and Waste Management
Air Quality Management Section

156 South State Street
Dover, DE 19901

Regulation No. 30 (Title V) Operating Permit
Facility I.D. Number: 1000300016
DRAFT Permit Number: AQM-003/00016 – Part 1 (Renewal 1)(Revision 2)

Effective Date: May xx, 2008 Expiration Date: May 26, 2013
Renewal Application Due Date: May 25, 2012

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")
The Premcor Refining Group Inc. 4550 Wrangle Hill Road Delaware City, Delaware 19706 Responsible Official: John Pickering Title: Vice President and General Manager	Valero Delaware City Refinery
Facility Site Location	**Facility Mailing Address**
Valero Delaware City Refinery 4550 Wrangle Hill Road Delaware City, Delaware 19706	Valero Delaware City Refinery 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.

DRAFT

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Ravi Rangan, P.E. / Date
Engineer
Engineering & Compliance Branch
(302) 323-4542

DRAFT

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Paul E. Foster, P.E. / Date
Program Manager
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Condition 1- Emission Unit Identification

*[Reference: 7 **DE Admin. Code** 1130 Section 3.3 dated 11/15/93]*

a. Emission Units Information.

Emission Unit	Emission Point	Emission Unit Description
HDS	29-1	Catalytic Hydrodesulfurizer Train 1 feed heater (29-H-101) and fractionator heater (29-H-8)
	29-2	Catalytic Hydrodesulfurizer Train 2 feed/fractionator heater (29-H-2), Train 3 feed heater (29-H-3) and fractionator reboiler heater (29-H-9)
	29-3	Catalytic Hydrodesulfurizer Train 4 feed heater (29-H-4) and Train 4 fractionator heater (29-H-7)
	29-4	Catalytic Hydrodesulfurizer Train 5 fractionator heater (29-H-6) and Train 5 feed heater (29-H-5)
Tetra	fugitives	Tanks
	32-1	Tetra unit feed heater (32-H-101)
SHU	33-1	Selective hydrogenation unit start up heater (33-H-1)
	33-2	Selective hydrogenation unit reboiler heater (33-H-2)
Olefins	34-1	Olefins reboiler heater (34-H-101)
HC	36-1	Hydrocracker unit feed heater (36-H-1)

Emission Unit	Emission Point	Emission Unit Description
	36-2	Hydrocracker unit vacuum column reboiler (36-H-2)
	36-2	Hydrocracker unit fractionator reboiler (36-H-3)
FES	40-1	Refinery frozen earth propane storage flare system
TF	Various	Refinery Tank Farm classified under 11 groups based on type of construction, type of seal, vapor pressure of the stored liquid and the regulatory applicability of different regulations.
EP	fugitives	Ether Plant

b. Regulation No. 1102 Permit Identification.

This table identifies the underlying permits whose provisions have been incorporated into this Title V permit and specifies the reference number that will be used to identify the source of the underlying permit condition throughout this Title V permit.

Reference Number	Full Regulation No. 1102 Permit Designation
APC-82/0633	**APC-82/0633-OPERATION** issued February 8, 1985. Heater Unit 29-H-101
APC-81/0790	**APC-81/0790-OPERATION** issued June 17, 1981. Heater Unit 29-H-2.
APC-81/0791	**APC-81/0791-OPERATION** issued June 17, 1981. Heater Unit 29-H-3.
APC-81/0792	**APC-81/0792-OPERATION** issued June 17, 1981. Heater Unit 29-H-4.
APC-81/0793	**APC-81/0793-OPERATION** issued June 17, 1981. Heater Unit 29-H-5.
APC-81/0794	**APC-81/0794-OPERATION** issued June 17, 1981. Heater Unit 29-H-6.
APC-81/0795	**APC-81/0795-OPERATION** issued June 17, 1981. Heater Unit 29-H-7.
APC-81/0796	**APC-81/0796-OPERATION** issued June 17, 1981. Heater Unit 29-H-8.
APC-81/0797	**APC-81/0797-OPERATION** issued June 17, 1981. Heater Unit 29-H-9.
APC-81/0873	**APC-81/0873-OPERATION** issued August 21, 1981. Hydrodesulfurizer Train I.
APC-81/0874	**APC-81/0874-OPERATION** issued August 21, 1981. Hydrodesulfurizer Train II.
APC-81/0875	**APC-81/0875-OPERATION** issued August 21, 1981. Hydrodesulfurizer Train III.
APC-81/0876	**APC-81/0876-OPERATION** issued August 21, 1981. Hydrodesulfurizer Train IV.
APC-81/0877	**APC-81/0877-OPERATION** issued August 21, 1981. Hydrodesulfurizer Train V.
APC-81/0832	**APC-81/0832-OPERATION (Amendment 1)(HON)** issued October 23, 1997. Benzene Loading Facility.
APC-81/0833	**APC-81/0833-OPERATION** issued February 24, 1982. Aromatics Fractionation and Storage Facility.
APC-82/0979	**APC-82/0979-OPERATION** issued September 16, 1982. Nitrogen Grade Toluene Facility.
APC-81/0802	**APC-81/0802-OPERATION** issued June 17, 1981. Heater Unit 32-H-101.
APC-81/0805	**APC-81/0805-OPERATION** issued June 17, 1981. Heater Unit 33-H-1.
APC-81/0806	**APC-81/0806-OPERATION** issued June 17, 1981. Heater Unit 33-H-2.

APC-81/0822	**APC-81/0822-OPERATION (Amendment 1)** issued June 12, 1992. Olefins Plant.
APC-81/0808	**APC-81/0808-OPERATION** issued June 17, 1981. Heater Unit 134-H-101.
APC-81/0966	**APC-81/0966-OPERATION** issued September 9, 1981. Hydrocracker Unit and Process Heaters 36-H-1, 36-H-2, and 36-H-3.
APC-80/0869(A5)	**APC-80/0869-OPERATION (Amendment 5)(VOC RACT)(NSPS)** issued November 4, 1999. Intermediate Product Tank Farm.
APC-80/0870(A3)	**APC-80/0870-OPERATION (Amendment 3)(VOC RACT)(NSPS)** issued March 29, 2000. Crude Oil Tank Farm.
APC-80/0870(A2)	**APC-80/0870-OPERATION (Amendment 2)(VOC RACT)(NSPS)** issued October 12, 1994. Crude Oil Tank Farm.
APC-81/0120	**APC-81/0120-OPERATION (Amendment 2)(RACT)** issued November 6, 1996. Sour Water Treatment Crude Unit.
APC-80/0868	**APC-80/0868-OPERATION** issued April 30, 1980. Product Tank Farm.
APC-80/0868-C/O	**APC-80/0868-CONSTRUCTION/OPERATION (NSPS)(RACT)(MACT)** dated March 29, 2006 for the Ethanol Blending Project
APC-91/0553	**APC-91/0553-OPERATION (RACT)(MACT)** issued January 30, 1995. Ether Plant.

Condition 2 - General Requirements

a. Certification.

1. Each document submitted to the Department/EPA as required by this permit shall be certified by a Responsible Official as to truth, accuracy, and completeness. Such certification shall be signed by a Responsible Official and shall contain the following language: "I certify, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete." *[Reference: 7 **DE Admin. Code** 1130 Section 5.6 dated 11/15/93 and 6.3.1 dated 12/11/00]*

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 discovery 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 calendar days thereafter, together with any corrected or supplemental information required concerning the deviation. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.3.3.4 dated 12/11/00]*

3. Each document submitted to the Department/EPA pursuant to this permit shall be sent to the following addresses:

State of Delaware – DNREC Division of Air and Waste Management Air Quality Management Section 156 South State Street Dover, DE 19901 ATTN: Program Administrator	Section Chief United States Environmental Protection Agency Associate Director of Enforcement (3AP12) 1650 Arch Street Philadelphia, PA 19103
No. of Originals: **1** & No. of Copies: **1**	No. of Copies: **1**

b. Compliance.

1. The Owner and/or Operator shall comply with all terms and conditions of this permit. Any noncompliance with this permit constitutes a violation of the applicable requirements under the Clean Air Act, and/or 7 **DE Admin. Code** 1100, and is grounds for an enforcement action; for

permit termination, revocation, and reissuance or modification; or for denial of a permit renewal. *[Reference:* 7 ***DE Admin. Code*** *1130 Section 6.1.7.1 dated 12/11/00]*

2.
   i. For applicable requirements with which the source is in compliance, the Owner and/or Operator shall continue to comply with such requirements. *[Reference:* 7 ***DE Admin. Code*** *1130 Sections 5.4.8.3.1 dated 11/15/93 and 6.3.3 dated 12/11/00]*

   ii. For applicable requirements that will become effective during the term of this permit, the Owner and/or Operator shall meet such requirements on a timely basis unless a more detailed schedule is expressly required by the applicable requirement. *[Reference:* 7 ***DE Admin. Code*** *1130 Sections 5.4.8.3.2 dated 11/15/93 and 6.3.3 dated 12/11/00]*

3. Nothing in Condition 2(b)(1) of this permit shall be construed to preclude the Owner and/or Operator from making changes consistent with Condition 2(m)(3) [Minor Permit Modifications] or Condition 4(a) [Operational Flexibility]. *[Reference:* 7 ***DE Admin. Code*** *1130 Sections 6.8 dated 12/11/00 and 7.5.1.5 dated 12/11/00]*

4. The fact that it would have been necessary to halt or reduce an activity in order to maintain compliance with the terms and conditions of this permit shall not constitute a defense for the Owner and/or Operator in any enforcement action. Nothing in this permit shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in assessing penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious that the impacts of continuing operations. *[Reference:* 7 ***DE Admin. Code*** *1130 Section 6.1.7.2 dated 12/11/00]*

5. The Owner and/or Operator may seek to establish that noncompliance with a technology-based emission limitation under this permit was due to an emergency or malfunction if both the record keeping requirements in Condition 3(b)(2)(iii) and the reporting requirements in Condition 3(c)(2)(ii)(A) are satisfied. *[Reference:* 7 ***DE Admin. Code*** *1130 Section 6.7.2 dated 12/11/00]*

6.
   i. In any enforcement proceeding, the Owner and/or Operator seeking to establish the occurrence of an emergency or malfunction has the burden of proof. *[Reference:* 7 ***DE Admin. Code*** *1130 Section 6.7.4 dated 12/11/00]*

   ii. The provisions of 7 **DE Admin. Code** 1130 pertaining to Emergency/Malfunctions as defined in Conditions Nos. 2(b)(5); 2(b)(6); 3(b)(2)(iii); and 3(c)(2)(ii)(A) of this permit are in addition to any emergency or malfunction provision contained in any applicable requirement. *[Reference:* 7 ***DE Admin. Code*** *1130 Section 6.7.5 dated 12/11/00]*

7. Reserved.

8. If required, the schedule of compliance in Condition 5 of this permit is supplemental to and shall not sanction noncompliance with the applicable requirements upon which it is based. *[Reference:* 7 ***DE Admin. Code*** *1130 Section 5.4.8.3.3 dated 11/15/93]*

9. Nothing in this permit shall be interpreted to preclude the use of any credible evidence to demonstrate noncompliance with any term of this permit. *[Reference: 62 FR 8314 dated 2/24/97]*

10. All terms and conditions of this permit are enforceable by the Department and by the U.S. Environmental Protection Agency ("EPA") unless specifically designated as "State Enforceable Only" *[Reference:* 7 ***DE Admin. Code*** *1130 Section 6.2.1 dated 12/11/00]*

c. **Confidentiality**. The Owner and/or Operator may make a claim of confidentiality for any information or records submitted to the Department. However, by submitting a permit application, the Owner and/or Operator waives any right to confidentiality as to the contents of its permit, and the permit contents will not be entitled to protection under 7 **Del. C.**, Ch 60, § 6014. *[Reference:* 7 ***DE Admin. Code*** *1130 Sections 5.1.4 dated 11/15/93, 6.1.3.3.5 dated 12/11/00, and 6.1.7.5 dated 12/11/00]*

1. Confidential information shall meet the requirements of 7 **Del. C.**, Ch 60, § 6014, and 29 **Del. C.**, Ch 100. *[Reference: 7 **DE Admin. Code** 1130 Section 5.1.4 dated 11/15/93]*

2. If the Owner and/or Operator submits information to the Department under a claim of confidentiality, the Owner and/or Operator shall also submit a copy of such information directly to the EPA, if the Department requests that the Owner and/or Operator do so. *[Reference: 7 **DE Admin. Code** 1130 Section 5.1.4 dated 11/15/93]*

d. **Construction, Installation, or Alteration**. The Owner/Operator shall not initiate construction, installation, or alteration of any equipment or facility or air contaminant control device which will emit or prevent the emission of an air contaminant prior to submitting an application to the Department under Regulation No. 1102, and, when applicable, Regulation No. 1125, and receiving approval of such application from the Department; except as exempted in the State of Delaware Regulation No. 1102 Section 2.2. *[Reference: 7 **DE Admin. Code** 1102 Section 2.1 dated 6/1/97 and 7 **DE Admin. Code** 1130 Section 7.2.3 dated 12/11/00]*

e. **Definitions/Abbreviations**. Except as specifically provided for below, for the purposes of this permit, terms used herein shall have the same meaning accorded to them under the applicable requirements of the Clean Air Act and 7 **DE Admin. Code** 1100.

1. "Act" means the Clean Air Act, as amended by the Clean Air Act Amendments of November 15, 1990, 42 U.S.C. 7401 et seq. *[Reference: 7 **DE Admin. Code** 1130 Section 2 dated 11/15/93]*

2. "AP-42" means the Compilation Of Air Pollutant Emission Factors, Fifth Edition, AP-42, dated January 15, 1995, as amended with Supplements "A" dated February 1996, "B" dated November 1996, "C" dated November 1997, "D" dated August 1998, "E" dated September 1999, and "F" dated September 2000 and the December 2001 update, the December 2002 update and the December 2003 update.

3. "CFR" means Code of Federal Regulations.

4. "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the sources, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error. *[Reference: 7 **DE Admin. Code** 1130 Section 6.7.1 dated 12/11/00]*

5. "Malfunction" means any sudden and unavoidable failure of air pollution control equipment or of a process to operate in a normal or usual manner, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the malfunction. A malfunction shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error. *[Reference: 7 **DE Admin. Code** 1130 Section 6.7.1 dated 12/11/00]*

6. "Number 2 fuel oil" and "No. 2 fuel oil" means distillate oil.

7. "Reg." and "Regulation" mean the regulations covered under 7 **DE Admin. Code** 1100.

8. "Regulations Governing the Control of Air Pollution" means the codification of those regulations enacted by the Delaware Department of Natural Resources and Environmental Control, in accordance with 7 **Del. C.,** Ch 60, § 6010.

f. **Duty to Supplement**.

1. Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the Owner and/or Operator shall promptly submit to the

Department such supplementary facts or corrected information. *[Reference: 7 **DE Admin. Code** 1130 Section 5.2 dated 11/15/93]*

2. The Owner and/or Operator shall promptly submit to the Department information as necessary to address any requirements that become applicable to the source after the date it filed a complete application but prior to the release of a corresponding draft permit. *[Reference: 7 **DE Admin. Code** 1130 Section 5.2 dated 11/15/93]*

3. The Owner and/or Operator shall furnish to the Department, upon receipt of a written request and within a reasonable time specified by the Department:

   i. Any information that the Department determines is reasonably necessary to evaluate or take final action on any permit application submitted in accordance with Condition 2(l) or 2(m) of this permit. The Owner and/or Operator may request an extension to the deadline the Department may impose on the response for such information. *[Reference: 7 **DE Admin. Code** 1130 Section 5.1.2.3 dated 11/15/93]*

   ii. Any information that the Department requests to determine whether cause exists to modify, terminate, or revoke this permit, or to determine compliance with the terms and conditions of this permit. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.5 dated 12/11/00]*

   iii. Copies of any records required to be kept by this permit. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.5.7 dated 12/11/00]*

g. **Emission Trading**. No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.9 dated 12/11/00]*

h. **Fees**. The Owner/Operator shall pay fees to the Department consistent with the fee schedule established by the Delaware General Assembly. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.8 dated 12/11/00 and Section 9.0 dated 11/15/93]*

i. **Inspection and Entry Requirements**. Upon presentation of identification, the Owner/Operator shall allow authorized officials of the Department to perform the following:

1. Enter upon the Owner/Operator's premises where a source is located or an emissions-related activity is conducted, or where records that must be kept under the terms and conditions of this permit are located. *[Reference: 7 **DE Admin. Code** 1130 Section 6.3.2.1 dated 12/11/00]*

2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of this permit. *[Reference: 7 **DE Admin. Code** 1130 Section 6.3.2.2 dated 12/11/00]*

3. Inspect, at reasonable times and using reasonable safety practices, any facility, equipment (including monitoring and air pollution control equipment), practice, or operation regulated or required under this permit. *[Reference: 7 **DE Admin. Code** 1130 Section 6.3.2.3 dated 12/11/00]*

4. Sample or monitor, at reasonable times, any substance or parameter for the purpose of assuring compliance with this permit or any applicable requirement. *[Reference: 7 **DE Admin. Code** 1130 Section 6.3.2.4 dated 12/11/00]*

j. **Permit and Application Consultation**. The Owner/Operator is encouraged to consult with Department personnel before submitting an application or, at any other time, concerning the operation, construction, expansion, or modification of any installation, or concerning the required pollution control devices or system, the efficiency of such devices or system, or the pollution problem related to the installation. *[Reference: 7 **DE Admin. Code** 1130 Section 5.1.1.7 dated 11/15/93]*

k. **Permit Availability**. The Owner/Operator shall have available at the facility at all times a copy of this permit and shall provide a copy of this permit to the Department upon request. *[Reference: 7 **DE Admin. Code** 1102 Section 8.1 dated 6/1/97]*

l. Permit Renewal. This permit expires 5 years from the date of issuance except as provided in Condition 2(l)(3) below. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.2 dated 12/11/00]*

1. Applications for permit renewal shall be subject to the same procedural requirements, including those for public participation, affected state comment, and EPA review, that apply to initial permit issuance under 7 **DE Admin. Code** 1130 Section 7.1, except that an application for permit renewal may address only those portions of the permit that the Department determines require revision, supplementing, or deletion, incorporating the remaining permit terms by Reference: from the previous permit. The Department may similarly, in issuing a draft renewal permit or proposed renewal permit, specify only those portions that will be revised, supplemented, or deleted, incorporating the remaining permit terms by Reference. *[Reference: 7 **DE Admin. Code** 1130 Section 7.3.1 dated 12/11/00]*
2. The Owner and/or Operator's right to operate shall cease upon the expiration date unless a timely and complete renewal application has been submitted to the Department *no later than 12 months prior to the expiration date of the permit*. *[Reference: 7 **DE Admin. Code** 1130 Section 7.3.2 dated 12/11/00]*
3. The Department shall review each application for completeness and shall inform the applicant within 60 days of receipt if the application is incomplete. Unless the Department requests additional information or otherwise notifies the applicant of incompleteness within 60 days of an application, an application will be deemed complete if it contains the information required by the application form and 7 **DE Admin. Code** 1130 Section 5.4. *[Reference: 7 **DE Admin. Code** 1130 Section 5.1.2.1 dated 11/15/93*
4. If a timely and complete application for a permit renewal is submitted to the Department pursuant to 7 **DE Admin. Code** 1130, Section 5.1.2.4 (dated 11/15/93) and Section 7.3.1 (dated 12/11/00) and the Department, through no fault of the Owner and/or Operator, fails to take final action to issue or deny the renewal permit before the end of the term of this permit, then this permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted for the permit shall continue in effect during that time. *[Reference: 7 **DE Admin. Code** 1130 Section 7.3.3 dated 12/11/00]*

m. Permit Revision and Termination.

1.
   i. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00]*
   ii. Except as provided under Condition 2(m)(3) ["Minor Permit Modification"], the filing of a request by the Owner and/or Operator for a permit modification, revocation and reissuance, or termination, or of a modification of planned changes or anticipated noncompliance does not stay any term or condition of this permit. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00 and 7.5.1.5 dated 12/11/00]*
2. "Administrative Permit Amendment." When required, the Owner and/or Operator shall submit to the Department a request for an administrative permit amendment in accordance with 7 **DE Admin. Code** 1130 Section 7.4. *[Reference: 7 **DE Admin. Code** 1130 Section 7.4 dated 12/11/00]*
3. "Minor Permit Modification." When required, the Owner and/or Operator shall submit to the Department an application for a minor permit modification in accordance with 7 **DE Admin. Code** 1130 Section 7.5.1 and 7.5.2. *[Reference: 7 **DE Admin. Code** 1130 Section 7.5.1 dated 12/11/00 and 7.5.2 dated 12/11/00]*
   i. For a minor permit modification, during the period of time between the time the Owner and/or Operator makes the change or changes proposed in the minor permit modification application and the time that the Department takes action on the application, the Owner and/or Operator shall comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this period the Owner and/or Operator, at its own risk, need

not comply with the existing terms and conditions of this permit that it seeks to modify. *[Reference: 7 **DE Admin. Code** 1130 Section 7.5.1.5 dated 12/11/00 and 7.5.2.5 dated 12/11/00]*

ii. If the Owner and/or Operator fail to comply with its proposed permit terms and conditions during this time period, the existing terms and conditions of this permit may be enforced against the Owner and/or Operator. *[Reference: 7 **DE Admin. Code** 1130 Section 7.5.1.5 dated 12/11/00 and 7.5.2.5 dated 12/11/00]*

4. "Significant Permit Modification." When required, the Owner and/or Operator shall submit to the Department an application for a significant permit modification in accordance with 7 **DE Admin. Code** 1130 Section 7.5.3. *[Reference: 7 **DE Admin. Code** 1130 Section 7.5.3 dated 12/11/00]*

5.

i. When the Owner and/or Operator is required to meet the requirements under Section 112(g) of the Act or to obtain a preconstruction permit under 7 **DE Admin. Code** 1100, the Owner and/or Operator shall file a complete application to revise this permit within 12 months of commencing operation of the construction or modification. *[Reference: 7 **DE Admin. Code** 1130 Section 5.1.1.4 dated 11/15/93]*

ii. When the Owner and/or Operator is required to obtain a preconstruction permit, the Owner and/or Operator may submit an application to revise this permit for concurrent processing. The revision request for this permit when submitted for concurrent processing shall be submitted to the Department with the Owner and/or Operator's preconstruction review application or at such later time as the Department may allow. Where this permit would prohibit such construction or change in operation, the Owner and/or Operator shall obtain a permit revision before commencing operation. *[Reference: 7 **DE Admin. Code** 1102 Sections 11.2.10, 11.5 and 12.4, dated 6/11/06, and 7 **DE Admin. Code** 1130 Section 5.1.1.4 dated 11/15/93]*

iii. Where an application is not submitted for concurrent processing, the Owner and/or Operator shall obtain an operating permit under 7 **DE Admin. Code** 1100 prior to commencing operation of the construction or modification to cover the period between the date operation is commenced and until such time as operation is approved under 7 **DE Admin. Code** 1130. *[Reference: 7 **DE Admin. Code** 1102 Section 2.1 dated 6/11/06]*

6. "Permit Termination." The Owner and/or Operator may at any time apply for termination of this permit in accordance with 7 **DE Admin. Code** 1130 Section 7.8.4 or Section 7.8.5. *[Reference: 7 **DE Admin. Code** 1130 Sections 7.8.4 dated 12/11/00 and 7.8.5 dated 12/11/00]*

n. <u>Permit Transfer</u>.

1. A change in ownership or operational control of this facility shall be treated as an administrative permit amendment where the Department has determined that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new owner has been submitted to the Department. *[Reference: 7 **DE Admin. Code** 1130 Section 7.4.1.4 dated 12/11/00]*

2. In addition to any written agreement submitted by the Owner and/or Operator in accordance with Condition 2(n)(1), the Owner and/or Operator shall have on file at the Department a statement meeting the requirements of 7 **Del. C.,** Ch 79, Section 7902. *This permit condition is state enforceable only*. *[Reference: 7 **Del. C.,** Ch 79 Section 7902 dated 8/28/2007]*

3. The written agreement required in Condition 2(n)(1) of this permit shall be provided to the Department within a minimum of 30 calendar days prior to the specific date for transfer and shall indicate that the transfer is agreeable to both the current and new owner. *[Reference: 7 **DE Admin. Code** 1102 Section 7.1 dated 6/1/97]*

o. <u>Property Rights</u>. This permit does not convey any property rights of any sort, or any exclusive privilege. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.4 dated 12/11/00]*

p. <u>Risk Management Plan Submissions</u>.

1. In the event this stationary source, as defined in the State of Delaware 7 **DE Admin. Code** 1201 "Accidental Release Prevention Regulation" Section 4.0, is subject to or becomes subject to Section 5.0 of 7 **DE Admin. Code** 1201 (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. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.4 dated 12/11/00, 7 **DE Admin. Code** 1201 as amended March 11, 2006 and Delaware; Approval of Accidental Release Prevention Program, Federal Register Vol. 6, No. 11 pages 30818-22 dated June 8, 2001]*

2. If this stationary source, as defined in 7 **DE Admin. Code** 1201 Section 4.0, is not subject to Section 5.0 but is subject or becomes subject to Section 6.0 (as amended March 11, 2006), the owner or operator shall submit a Delaware RMP to the State of Delaware's Accidental Release Prevention group by the date as specified in Section 6.6.10 and required revisions as specified by Section 6.6.1. *Note: State enforceable only. [Reference: 7 **DE Admin. Code** 1201 as amended March 11, 2006]*

q. Protection of Stratospheric Ozone.

When applicable, this Facility shall comply with the following requirements: *[Reference: 40 CFR Part 82 "Protection of Stratospheric Ozone" revised as of 7/1/97 and 7 **DE Admin. Code** 1130 Section 2.0 dated 11/15/93]*

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

   i. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a process that uses a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.

   ii. The placement of the required warning statement must comply with the requirements pursuant to §82.108.

   iii. The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.

   iv. No person may modify, remove, or interfere with the required warning statement except as described in §82.112.

2. Any person servicing, maintaining, or repairing appliances, except for motor vehicles, shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. In addition, Subpart F applies to refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment.

   i. Persons owning appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to §82.154 and §82.156.

   ii. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.

   iii. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.

   iv. Persons performing maintenance, service, repair, or disposal of appliances must certify with the Administrator pursuant to §82.158 and §82.162.

   v. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to §82.166. ("MVAC-like appliance" as defined at §82.152)

   vi. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.

3. Owners/Operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR Part 82, Subpart F §82.166.
4. If the permittee manufactures, transforms, destroys, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR Part 82, Subpart A, "Production and Consumption Controls".
5. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the MVAC, the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, "Servicing of Motor Vehicle Air Conditioners".
   i. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. These systems are regulated under 40 CFR Part 82, Subpart F.
6. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed as acceptable in the Significant new New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G, Significant New Alternatives Policy Program.

r. **Severability**. The provisions of this permit are severable. If any part of this permit is held invalid, the application of such part to other persons or circumstances and the remainder of this permit shall not be affected thereby and shall remain valid and in effect. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.6 dated 12/11/00]*

Condition 3- Specific Requirements

a. **Emission Limitations Emission Standards, Operational Limitations, and Operational Standards**. The Owner/Operator shall comply with the limitations and standards detailed in Condition 3 – Table 1 of this permit. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.1dated 12/11/00]*

b. **Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping).** The Owner/Operator shall maintain all of the information required under Conditions 3(b)(1) and 3(b)(2) of this permit for a minimum of 5 years from such information's date of record. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.3.2.2 dated 12/11/00]*

1.

   i. Specific Requirements. 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 Condition 3(b)(2) of this permit. *[Reference: 7 **DE Admin. Code** 1130 Sections 6.1.1 dated 12/11/00, 6.1.3.1 dated 12/11/00, and 6.1.10 dated 12/11/00]*

   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. *[Reference: 7 **DE Admin. Code** 1117 Section 2.2 dated 7/17/84]*

   iii. The Department must observe all stack emission testing and monitor certification testing including any test audits conducted on the monitors as part of the Quality Assurance Program for the results to be considered for acceptance unless the Department determines in advance, in writing, that the test need not be observed. Further, the Department may in its discretion determine based on its observation of the test that it need not observe the entire test. *[Reference 7 **DE Admin. Code** 1117 Section 2.2, dated 7/17/84]*

   iv. All monitor performance specification testing and stack emissions testing shall require the submission of a "Source Sampling Guidelines and Preliminary Survey Form" which must be found

acceptable to the Department at least 30 days prior to the testing. *[Reference 7 **DE Admin. Code** 1120, Section 1.4, dated 12/7/88]*

v. The results of all monitor performance specification testing and stack emission testing shall be submitted to the Department, in triplicate, within 60 days after completion of the testing. *[Reference 7 **DE Admin. Code** 1120, Section 1.4, dated 12/7/88]*

2. General Record Keeping Requirements. The Owner/Operator shall record, at a minimum, all of the following information:

i. 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 and/or Operator shall, contemporaneously with changing from one operating scenario to another, record in this log the time at which the operating scenario under which it is operating is changed. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.10 dated 12/11/00]*

ii. The following information to the extent specified in Condition 3 – Table 1 of this permit. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.3.2.1 dated 12/11/00]*

A. The date, place, and time of the sampling or measurements. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.3.2.1.1 dated 12/11/00]*

B. The dates analyses were performed. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.3.2.1.2 dated 12/11/00]*

C. The Owner and/or Operator or entity that performed the analyses. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.3.2.1.3 dated 12/11/00]*

D. The analytical techniques or methods used. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.3.2.1.4 dated 12/11/00]*

E. The results of such analyses. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.3.2.1.5 dated 12/11/00]*

F. The operating conditions as existing at the time of sampling or measurement. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.3.2.1.6 dated 12/11/00]*

iii. If the Owner and/or Operator is claiming the affirmative defense of emergency or malfunction as provided in Condition 2(b)(5); a properly signed, contemporaneous operating logs, or other relevant evidence which indicates that: *[Reference: 7 **DE Admin. Code** 1130 Section 6.7.3 dated 12/11/00]*

A. An emergency or malfunction occurred and the causes of the emergency or malfunction. *[Reference: 7 **DE Admin. Code** 1130 Section 6.7.3.1 dated 12/11/00]*

B. The facility was at the time of the emergency or malfunction being operating in a prudent and professional manner and in compliance with the generally accepted industry operations and maintenance procedures. *[Reference: 7 **DE Admin. Code** 1130 Section 6.7.3.2 dated 12/11/00]*

C. During the period of the emergency or malfunction the Owner and/or Operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements of this permit. *[Reference: 7 **DE Admin. Code** 1130 Section 6.7.3.3 dated 12/11/00]*

iv. A copy of the written notice required by Condition 3(c)(2)(iii) for each change made under Condition 4(c) [Operational Flexibility] of this permit shall be maintained with a copy of this permit. *[Reference: 7 **DE Admin. Code** 1130 Section 6.8.1 dated 12/11/00]*

c. Reporting and Compliance Certification Requirements.

1. Specific Reporting/Certification Requirements. The Owner and/or Operator shall comply with the Reporting/Certification Requirements detailed in Condition 3 – Table 1 of this permit, which are in addition to those of Conditions 3(c)(2) and 3(c)(3) of this permit. Each report that contains any deviations from the terms of Condition 3– Table 1 shall identify the probable cause of the deviations

and any corrective actions or preventative measures taken. *[Reference: 7 **DE Admin. Code** 1130 Sections 6.1.3.3 dated 12/11/00, 6.1.3.3.3.3 dated 12/11/00, and 6.1.3.3.3.4 dated 12/11/00]*

2. General Reporting Requirements.

   i. The Owner and/or 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 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 report shall identify any deviations from the monitoring, record keeping, and reporting requirements under this permit; and the probable cause of the deviations; and any corrective actions or preventative measures taken. If no deviations have occurred, such shall be stated in the report. *[Reference: 7 **DE Admin. Code** 1130 Sections 6.1.3.3.1 dated 12/11/00, 6.1.3.3.2 dated 12/11/00, and 6.1.3.3.3.4 dated 12/11/00]*

   ii. In addition to the semiannual monitoring reports required under Condition 3(c)(2)(i), the Owner and/or Operator shall submit to the Department supplemental written reports and/or notices identifying all deviations from permit conditions, probable cause of the deviations, and any corrective actions or preventative measures as follows: *[Reference: 7 **DE Admin. Code** 1130 Sections 6.1.3.3.3.3 dated 12/11/00 and 6.1.3.3.3.4 dated 12/11/00]*

      A. If the Owner and/or 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 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. *[Reference: 7 **DE Admin. Code** 1130 Sections 6.1.3.3.3.1 dated 12/11/00 and 6.7.3.4 dated 12/11/00]*

      B. 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: *[Reference: 7 **DE Admin. Code** 1130 Sections 6.1.3.3.3.3 dated 12/11/00 and 6.1.3.3.3.2 dated 12/11/00]*

         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. *[Reference: 7 **DE Admin. Code** No 1130, Section 6.1.3.3.3.2 dated 12/11/2000]*

         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. *[Reference: 7 **DE Admin. Code** No 1130, Section 6.1.3.3.3.2 dated 12/11/2000]*

      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)(1) and/or the specific reporting requirements listed in Condition 3 – Table 1 of this permit. *[Reference: 7 **DE Admin. Code** 1130 Sections 6.1.3.3.3.3 dated 12/11/00 and 6.1.3.3.3.4 dated 12/11/00]*

      D. Discharges to the atmosphere in excess of any quantity specified in the 7 **DE Admin. Code** 1203 ("**Reporting of a Discharge of a Pollutant or an Air Contaminant**") shall be reported, immediately upon discovery and after activating the appropriate site emergency plan, either in person or to the Department's 24-hour Environmental Emergency Notification and 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. *[Reference:* 7 ***DE Admin. Code*** *1130 Section 6.*1.3.3.3.5 *dated 12/11/00 and* 7 ***DE Admin. Code*** *1203]*

iii. Prior to making a change as provided in Condition 4 [Operational Flexibility] of this permit the Owner and/or Operator shall give written notice to the Department and EPA at least seven calendar days before the change is to be made. *[Reference:* 7 ***DE Admin. Code*** *1130 Section 6.8.1 dated 12/11/00]*

A. The seven 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. *[Reference:* 7 ***DE Admin. Code*** *1130 Section 6.8.1 dated 12/11/00]*

B. If less than seven calendar days notice is provided because of a need to respond more quickly to such unanticipated conditions, the Owner and/or Operator shall provide notice to the Department and EPA as soon as possible after learning of the need to make the change, together with the reasons why advance notice could not be given. *[Reference:* 7 ***DE Admin. Code*** *1130 Section 6.8.1 dated 12/11/00]*

C. The written notice shall include all of the following information: *[Reference:* 7 ***DE Admin. Code*** *1130 Section 6.8.1 dated 12/11/00]*

1. The identification of the affected emission units 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.

iv. The Owner and/or Operator shall submit to the Department an annual emissions statement in accordance with 7 **DE Admin. Code** 1117 Section 7.0 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. *[Reference:* 7 ***DE Admin. Code*** *1117 Section 7 .0 dated 1/11/93]*

v. If required, the Owner and/or Operator shall submit to the Department a progress report for applicable requirements 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: *[Reference:* 7 ***DE Admin. Code*** *1130 Sections 5.4.8 dated 11/15/93 and 6.3.4 dated 12/11/00]*

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.* *[Reference: 7* ***DE Admin. Code*** *1130 Section 6.3.4.1 dated 12/11/00]*

B. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted. *[Reference: 7* ***DE Admin. Code*** *1130 Section 6.3.4.2 dated 12/11/00]*

vi. Nothing herein shall relieve the Owner and/or Operator from any reporting requirements under federal, state, or local laws. *[Reference: 7* ***DE Admin. Code*** *1130 Section 6.1.3.3.3.5 dated 12/11/00]*

3. General Compliance Certification Requirements.

i. Compliance with terms and conditions of this permit shall be certified to the Department not later than the first day of February of each year unless the terms or conditions in Condition 3– Table 1 of this permit require compliance certifications to be submitted more frequently. Such certification shall cover the previous calendar year and shall be submitted on Form AQM-1001BB.

The Compliance Certification shall include the following information: *[Reference: 7 **DE Admin. Code** 1130 Section 6.3.5.1 dated 12/11/00]*

A. The identification of each term or condition of the permit that is the basis of the certification. *[Reference: 7 **DE Admin. Code** 1130 Section 6.3.5.3.1 dated 12/11/00]*

B. The Owner and/or Operator's current compliance status, as shown by monitoring data and other information reasonably available to the Owner and/or Operator. *[Reference: 7 **DE Admin. Code** 1130 Section 6.3.5.3.2 dated 12/11/00]*

C. Such certification shall indicate whether compliance was continuous or intermittent during the covered period. *[Reference: 7 **DE Admin. Code** 1130 Section 6.3.5.3.3 dated 12/11/00]*

D. The methods used for determining the compliance status of the Owner and/or Operator, currently and over the reporting period as required by the monitoring, record keeping, and reporting required under Condition 3. *[Reference: 7 **DE Admin. Code** 1130 Section 6.3.5.3.4 dated 12/11/00]*

E. Such other facts as the Department may require to determine the compliance status of the source. *[Reference: 7 **DE Admin. Code** 1130 Section 6.3.5.3.5 dated 12/11/00]*

ii. Each compliance certification shall be submitted to the Department and EPA and shall be certified in accordance with Condition 2(a) of this permit. *[Reference: 7 **DE Admin. Code** 1130 Section 6.3.5.4 dated 12/11/00]*

iii. Any additional information possessed by the Owner and/or Operator that demonstrates non-compliance with any applicable requirement must also be used as the basis for compliance certifications. *[Reference: 62 FR 8314 dated 2/24/97]*

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
a. Emission Unit 29: Catalytic Hydrodesulfurizer Trains 29-1 through 29-5 and Process Heaters 29-H-101 and 29-H-2 through 29-H-9; Emission Points 29-1 through 29-4		
1. Particulate Emissions i. Emission Standard: The Owner/Operator shall not cause or allow the emission of particulate matter in excess of 0.3 lb/mmBTU heat input, maximum 2-hour average. *[Reference 7 **DE Admin. Code** 1104 Section 2.1 dated 2/1/81]* ii. Operational Limitation: The process heaters 29-H-2 through 29-H-9 and 29-H-101 are subject to the following fuel usage restrictions: *[Reference 7 **DE Admin. Code** 1130 Section 6.1.3.2 dated 12/11/00]* A. 29-H-3, 29-H-4, 29-H-5, 29-H-7 and 29-H-9 shall only combust desulfurized RFG. In addition, 29-H-9 may combust process vent gas from 29-D-36, Alky Merox, and Poly Merox. B. 29-H-2 may combust either natural gas or desulfurized RFG. In addition, it may combust process off gas from the Alky Merox, Poly Merox and vent gas from 29-D-36. C. 29-H-6 and 29-H-8 may combust either natural gas or desulfurized RFG. In addition, they may combust process off gas from the ether plant Merichem vapors. D. 29-H-101 may combust either natural gas or desulfurized RFG. In addition, it may combust vapors displaced from benzene storage and loading operations subject to the requirements in Condition 3 - Table 1(ba) of this permit.	iii. Compliance Method: Compliance with this emission standard and these operation limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements and the following: *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00]* A. Compliance with the emission standard is based on compliance with the NSPS limit of 0.1 grain/dscf limit of H_2S in RFG. B. Compliance with the operational limitation shall be demonstrated by record keeping. iv. Monitoring/Testing: The Owner/Operator shall continuously monitor and record the concentration (dry basis) of H_2S in RFG before it is combusted in any fuel burning device. The monitoring instrument shall be located downstream of all process steps that increase the concentration of H_2S in RFG prior to its being combusted in any fuel burning device. The H_2S CEMS shall conform to the requirements of Performance Specification 7 of 40 CFR 60, Appendix "B" and comply with the Quality assurance requirements of 40 CFR 60, Appendix "F". The relative accuracy evaluation shall be conducted using Method 11 of 40 CFR 60, Appendix "A." *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]* v. Record Keeping: In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Owner/Operator shall: *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]*	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]* 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]*

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
	A. The Owner/Operator shall maintain records of the fuel combusted in each unit. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]*	
2. Sulfur Dioxide (SO_2) i. Emission Standards: A. [RESERVED] B. The Owner/Operator shall not burn in any fuel gas combustion device any fuel gas including process off-gases from 29-D-36, Alky Merox, Poly Merox, Merichem vapors, and benzene vapors that contain H_2S in excess of 0.1 grain/DSCF on a three hour rolling average. *[Reference 7 **DE Admin. Code** 1120, Section 11 dated 11/27/85 and 40 CFR 60.104(a)(1) dated 10/17/2000 and 7 **DE Admin. Code** 1108 Section 2.1 dated 12/8/1983]*	ii. Compliance Method: Compliance with this emission standard and these operation limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements and the following: *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00]* A. **[RESERVED]** B. Compliance with Emission Standard (B) shall be based on the H_2S CEMS for the RFG and on the monitoring requirements required by the AMP. iii. Monitoring/Testing: A. The Owner/Operator shall continuously monitor and record the concentration (dry basis) of H_2S in RFG before it is combusted in any fuel burning device. The monitoring instrument shall be located downstream of all process steps that increase the concentration of H_2S in RFG prior to its being combusted in any fuel burning device. The H_2S CEMS shall conform to the requirements of Performance Specification 7 of 40 CFR 60, Appendix "B" and comply with the Quality assurance requirements of 40 CFR 60, Appendix "F". The relative accuracy evaluation shall be conducted using Method 11 of 40 CFR 60, Appendix "A." *[Reference: Regulation No. 30 Section 6.1.3.1.2 dated 12/11/00]* B. The H_2S content of the process off-gases shall be monitored according to the approved Alternate Monitoring Program. *[Reference letter from Motiva dated 9/12/2001 to Judy Katz, Air Protection Division Director, US EPA Region 3]* iv. Recordkeeping:	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]* 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]*

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
	A. The Owner/Operator shall keep records of all H_2S CEMS calibration, maintenance, quarterly cylinder gas audits and annual relative accuracy test audits for at least 5 years. *[Reference Regulation No. 30 Section 6.1.3.2 dated 12/11/00]* B. The Owner/Operator shall maintain records of the monitored data required by the Alternate Monitoring Plans. *[Reference: Letter from Motiva dated 9/21/2001 to Judy Katz, Air Protection Division Director, US EPA Region 3]*	
3. Nitrogen Oxides (NO_X) i. Emission Standards: A. For 29-H-101: NO_x emissions shall not exceed those achieved by the installation of either low excess air and low NO_x burner technology or flue gas recirculation technology. *[Reference: 7 **DE Admin. Code** 1112, Section 3.3.1 dated 11/24/93]* B. For Units 29-H-101 and Units 29-H-2 through 29-H-9: NO_X emissions shall not exceed those achieved through an annual tune up performed by qualified personnel. *[Reference: 7 **DE Admin. Code** 1112, Section 3.3.2 dated 11/24/93]*	ii. Compliance Method: Compliance with this emission standard and these operation limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements and the following: *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00]* A. For 29-H-101: Compliance demonstration with Emission Standard (A) shall be based on the operation and maintenance of the Low NO_X burners in accordance with the manufacturer's specifications. B. For Units 29-H-2 through 29-H-9: Compliance demonstration with Emission Standard (B) shall be by conducting an annual tune up of each unit by qualified personnel. iii. Monitoring & Testing: *[Reference Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.1.2 dated 12/11/00]* A. [RESERVED] B. For Units 29-H-2 through 29-H-9: None in addition to the annual tune up required in Compliance Method (B). iv. Record Keeping: That required by Conditions 3(b)(1)(ii) and 3(b)(2) of this permit. *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.1.2 and 6.2.1 dated 12/11/00]*	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]* 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]*

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
4. Visible Emissions Standard: i. 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 percent 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]*	ii. Compliance Method: Compliance with this emission standard and these operation limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements. *[Reference:* 7 ***DE Admin. Code*** *1130 Section 6.1.7.3 dated 12/11/00]* iii. Monitoring/Testing: A. Visual observations in accordance with paragraph (C) below shall be conducted within one (1) week of the annual tune-up. *[Reference* 7 ***DE Admin. Code*** *1130 Section 61.3 dated 12/11/00]* B. 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 (C) below. 2. If no visible emissions are observed, no further action is required. *[Reference 7* ***DE Admin Code*** *1130 Section 6.1.3. dated 12/11/00]* C. 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 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*	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]* 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]*

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
	1.5.3 dated 12/7/88] iv. 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 Sections 6.1.3.1.2 dated 12/11/00]* A. Observation records shall be maintained and made available to the Department upon request. B. Records of all maintenance performed on these units shall be maintained and made available to the Department upon request.	
ba. **Emission Unit 32**: Benzene Emissions From Benzene Storage Tanks 331-TC-1, 332-TC-1, 570-TC-10; and the Benzene Transfer Facility at the Tetra Unit; and the Transfer Rack (Emission Point 32-1)		
1. Benzene Emissions: i. Emission Standards for Unit 32-H-101 when waste is introduced into the flame zone: A. Process heater 32-H-101 shall reduce benzene emissions to an exit concentration of not greater than 20 ppmv (dry) corrected to 3 percent O_2 during all benzene loading cycles. *[Reference: 40 CFR Part 63.126(b)(1), 7/1/05 ed.]* B. Unit 32-H-101 shall reduce the inlet emissions of total organic HAP emissions from the storage tanks 331-TC-1, 332-TC-1 and 570-TC-10 by 95 weight percent or greater. *[Reference: 40 CFR 61.271(c) dated 12/14/2000 and 40 CFR Part 63.119(e)(1), 7/1/05 ed.]* ii. Operational Limitations: A. Process Heater 32-H-101 shall be the primary control device for benzene vapors	iii. Compliance Method: *[Reference **APC-81/0832** and 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 dated 12/11/00]* A. Compliance with Emission Standard (A) and Operational Limitation (A) is based upon continuously monitoring the firebox temperature of unit 32-H-101 during all benzene loading cycles unless the Owner/Operator is complying with operational limitation B. B. Compliance with Emission Standard (B) shall be based on compliance with Compliance Method (A) in addition to continuously monitoring the firebox temperature in Unit 32-H-101 when it is serving as the control device for the closed vent system of the storage tanks unless the Owner/Operator is complying with operational limitation B. C. Compliance with Operational Limitation (B) shall be demonstrated by conducting a stack test at the maximum loading rate to	vi. Reporting Requirement: 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]* A. A Notification of Compliance Status (NCS) in accordance with 40 CFR Part 63.152 shall be submitted semi-annually, no later than 60 days after the end of each 6 month period. The 6 month periods for this facility shall end on June 30 and December 31, respectively each year. B. All periods when Unit 29-H-101 is used in place of Unit 32-H-101. This notification may be submitted quarterly. C. Storage vessel reports in accordance with 40 CFR Part 63.122 and transfer operations reports in accordance with 40 CFR Part 63.129.

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
displaced from storage vessels and during loading operations. The waste vent stream shall be introduced into the flame zone of unit 32-H-101 and the minimum firebox temperature for each three (3) hour loading cycle shall not be less than 50°F below 845°F (i.e., 795°F) which was the average firebox temperature recorded during the performance test following completion of construction. *[Reference: APC-81/0832 Condition No. 11]* B. As an alternative to Operational Limitation A, the benzene vent stream may be introduced with the fuel into process heater 32-H-101 or the alternate control device 29-H-101. However, the Owner/Operator shall not operate either control device in the pre-mixed mode of operation except for the purpose of compliance testing prior to completing the stack test which demonstrates compliance. *[Reference Reg. No. 30, Section 6(a)(3)(i)(B) dated 12/11/00]* C. The benzene product flow in each rail car loading arm shall be restricted to 155 gallons per minute. The flow rate for simultaneous loading of tank trucks or rail cars shall not exceed a maximum of 620 gallons per minute. *[Reference: APC-81/0832 Condition 8]* D. Benzene loading operations shall not be carried out simultaneously in railcars and tanker trucks. *[Reference: APC-81/0832 Condition 5]* E. Benzene loading operations may be carried out only in accordance with all of the following scenarios: 1. When Process Heater 32-H-101 or 29-H-101 are operating properly.	demonstrate that pre-mixing the waste in either 32-H-101 or 29-H-101 with the fuel will achieve compliance with the 98% destruction efficiency or exit concentration of 20 ppmvd corrected to 3% O_2. The stack test shall be conducted with each heater used as a control device. D. Compliance with Operational Limitation (C) for rail cars shall be based on flow restrictors sealed by the Division of Weights and Measures. Compliance for tank trucks shall be based on the quantity loaded and the loading time. E. Compliance with Operational Limitation (D) shall be determined by maintaining a log of all periods of loading tanker trucks and railcars. F. Compliance with Operational Limitation (E)(1) shall be based on compliance with Compliance Method (A) above. G. Compliance with Operational Limitation (E)(2) shall be based on record keeping of a log indicating that a DOT test label is present and valid. *[Reference: 40 CFR Part 63.130(e), 7/1/05 ed.]* H. Compliance with Operational Limitation (E)(3) shall be based on operation of the system according to manufacturer's specifications. I. Compliance with Operational Limitation (E)(4) shall be based upon record keeping. J. Compliance with Operational Limitation (E)(5) shall be based on record keeping. K. Compliance with Operational Limitation (E)(6) shall be based on the LDAR requirement of Table 1.fb.3.ii and record keeping. L. Compliance with Operational Limitation (E)(7) shall be based on compliance with 40 CFR 63.127(d)(2). iv. Monitoring/Testing Requirement: A. The Owner/Operator shall continuously monitor	D. Results of stack test required to demonstrate compliance with Operational Limitation B in accordance with Condition 3(b)(1)(v). *[Reference: APC-81/0832 Conditions 13 and 17]* 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]*

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
[Reference: APC-81/0832 Condition 6] 2. When the tanker trucks or railcars have been connected to the transfer rack's vapor collection system. *[Reference: APC-81/0832 Condition 14 and 40 CFR 63.126(e) dated 7/1/05]* 3. Each vapor collection system shall be designed and operated such that the organic vapors collected at one loading arm will not pass through another loading arm in the rack to the atmosphere. *[Reference: APC-81/0832 Condition No.15]* 4. For each Group 1 transfer rack the owner or operator shall load organic HAP's into only tank trucks and railcars which: a. Have a current certification in accordance with the U.S. Department of Transportation pressure test requirements of 49 CFR part 180 for tank trucks and 49 CFR 173.31 for railcars; or b. Have been demonstrated to be vapor-tight within the preceding 12 months, as determined by the procedures in Sec. 63.128(f) of this subpart. Vapor-tight means that the truck or railcar tank will sustain a pressure change of not more than 750 Pa within 5 minutes after it is pressurized to a minimum of 4,500 Pa. *[Reference 40 CFR 63.126(e) dated 7/1/05]* 5. The owner or operator of a transfer rack subject to the provisions of this subpart shall load organic HAP's to only tank trucks or railcars equipped	the firebox temperature in Unit 32-H-101 during all benzene loading cycles. *[Reference: APC-81/0832 Condition 11]* B. For the vapor collection system and storage tanks 331-TC-1, 332-TC-1 and 570-TC-10 the Owner and operator shall: *[Reference: 40 CFR Part 63.148, 7/1/05 ed.]* 1. Conduct annual visual inspections for visible, audible, or olfactory indications of leaks. 2. For each fixed roof, cover, and enclosure, the owner or operator shall conduct initial visual inspections and semi-annual visual inspections for visible, audible, or olfactory indications of leaks as specified in 40 CFR Part 63 subpart G §63.133 through 63.137. 3. Leaks, as indicated by visual inspections, shall be repaired as soon as practicable, except as provided in paragraph (iv)(B)(4) below. A first attempt at repair shall be made no later than 5 calendar days after the leak is detected. Repair shall be completed no later than 15 calendar days after the leak is detected. 4. Delay of repair for which leaks have been detected is allowed if the repair is technically infeasible without a shutdown or if the owner or operator determines that emissions resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair. Repair of such equipment shall be complete by the end of the next shutdown. 5. For each vapor collection system or closed vent system that contains bypass lines that could divert a vent stream away from the control device and to the atmosphere, the owner or operator shall: a. Install, calibrate, maintain, and operate	

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
with vapor collection equipment that is compatible with the transfer rack's vapor collection system. *[Reference 40 CFR 63.126(f) dated 7/1/05]* 6. The owner or operator of a transfer rack subject to the provisions of this subpart shall ensure that no pressure-relief device in the transfer rack's vapor collection system or in the organic hazardous air pollutants loading equipment of each tank truck or railcar shall begin to open during loading. Pressure relief devices needed for safety purposes are not subject to this paragraph. *[Reference 40 CFR 63.126(h) dated 7/1/05]* 7. Each valve in the vent system that would divert the vent stream to the atmosphere, either directly or indirectly, shall be secured in a non-diverting position using a carseal or a lock-and-key type configuration, or shall be equipped with a flow indicator. Equipment such as low leg drains, high point bleeds, analyzer vents, open-ended valves or lines, and pressure relief devices needed for safety purposes is not subject to this paragraph. *[Reference 40 CFR 63.126(i) dated 7/1/05]*	a flow indicator that determines whether vent stream flow is present at least once every 15 minutes. Records shall be generated as specified in §63.118(a)(3). The flow indicator shall be installed at the entrance to any bypass line; or b. Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. c. Equipment such as low leg drains, high point bleeds, analyzer vents, open-ended valves or lines, and pressure relief valves needed for safety purposes are not subject to this paragraph. 6. Any parts of the vapor collection system, closed vent system, fixed roof, cover, or enclosure that are designated as unsafe to inspect are exempt from the inspection requirements of this section if: a. The owner or operator determines that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential danger; and b. The owner or operator has a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times. *[Reference 7 **DE Admin Code** 1130 Section 6.1.3.1.1 dated 12/11/00]*	

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
	C. Conduct compliance stack testing of 32-H-101 and 29-H-101 in accordance with a Department approved protocol. *[Reference 7 **DE Admin Code** 1130 Section 6.1.3.1.1dated 12/11/00]* 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]* A. Continuous records of the firebox temperature monitored during all benzene loading cycles. *[Reference: APC-81/0832 Condition No.12]* B. A log identifying the process heater operating as the control device. *[Reference: APC-81/0832 Condition No.12]* C. Storage vessel records in accordance with Section 63.123 for all storage tanks at the Tetra unit. *[Reference: APC-81/0832 Condition No.12]* D. Log showing periods of tanker truck and railcar loading. *[Reference: APC-81/0832 Condition No.12]* E. The Company shall record the information specified as follows: 1. Identification of all parts of the vapor collection system, closed vent system, fixed roof cover, or enclosure that are designated as unsafe to inspect and therefore exempt from (iv)(B)(1) and (iv)(B)(2) above. 2. Identification of all parts of the vapor collection system, closed vent system, fixed roof cover, or enclosure that are designated as difficult to inspect, and therefore exempt from (iv)(B)(1) and (iv)(B)(2) above, with an explanation of why the equipment is difficult to inspect, and the plan for inspecting the equipment. 3. For each vapor collection system or closed	

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
	vent system that contains by-pass lines that could divert a vent stream away from the control device to the atmosphere, the Company shall keep a record of the following: a. Where a flow indicator is used, hourly records of whether the flow indicator specified in (iv)(B)(5)(a) was operating and whether a diversion was detected at any time during the hour as well as records of all times of all periods when the vent stream is diverted or the flow indicator is not operating; b. Where a seal mechanism is used to comply with (iv)(B)(5)(b) the Company shall record whether the monthly visual inspection of the seals or closure mechanisms has been done and record when the seal mechanism is broken, the bypass line valve position has changed, or the key for the lock-and-key has been checked out, and records of any car seal that has broken; 4. For each visual inspection conducted in accordance with (iv)(B)(1) & (iv)(B)(2) during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected. *[Reference 7 DE Admin Code 1130 Section 6.1.3.1.2 dated 12/11/00]*	
bb. Emission Unit 32: Volatile Organic Compound (VOC) Emissions from Benzene Storage tanks 331-TC-1, 332-TC-1, 570-TC-10; and the Benzene Transfer Facility at the Tetra Unit; and the Transfer Rack (Emission Point 32-1) (Volatile Organic Compounds (VOCs) SOCMI HON Conditions for Equipment Leaks)		
1. General Standards: i. Emission Standard: A. The provisions apply to the pumps,	iii. Compliance Method: Determination of whether such operation and maintenance procedures required by the	vi. Reporting Requirement: In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of

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
compressors, agitators, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, instrumentation systems, and control devices or closed vent systems that operate in HAP service 300 hours or more during the calendar year. *[Reference: 40 CFR 63, Subpart H, §63.160(a) dated 7/1/05]* B. Service definitions: 1. In gas/vapor service means that a piece of equipment in organic hazardous air pollutant service contains a gas or vapor at operating conditions. *[Reference: 40 CFR 63, Subpart H, §63.161 dated 7/1/05]* 2. In heavy liquid service means that a piece of equipment in organic hazardous air pollutant service is not in gas/vapor service or in light liquid service. *[Reference: 40 CFR 63, Subpart H, §63.161 dated 7/1/05]* 3. In light liquid service means that a piece of equipment in organic hazardous air pollutant service contains a liquid that meets the following conditions: a. The vapor pressure of one or more of the organic compounds is greater than 0.3 kilopascals at 20 deg. C, b. The total concentration of the pure organic compounds constituents having a vapor pressure greater than 0.3 kilopascals at 20 deg. C is equal to or greater than 20 percent by weight of the total process stream, and c. The fluid is a liquid at operating conditions. Note: Vapor pressures may be determined by the methods described in 40 CFR 60, Subpart VV, §60.485(e)(1) dated 7/1/00. *[Reference: 40 CFR 63, Subpart H, §63.161*	Operational Limitations are being used will be based on information available to the Department which may include, but not limited to, monitoring results, review of operation and maintenance procedures (including the startup, shutdown, and malfunction plan), review of operation and maintenance records, and inspection of the source. *[Reference 40 CFR 63.6(e)(1)(i) dated 7/1/05]* iv. Monitoring/Testing: A. Each piece of equipment in a process unit to which this section applies shall be identified such that it can be distinguished readily from equipment that is not subject to this section. Identification of the equipment does not require physical tagging of the equipment. For example, the equipment may be identified on a plant site plan, in log entries, or by designation of process unit boundaries by some form of weatherproof identification. *[Reference: 40 CFR 63, Subpart H, §63.162(c) dated 7/1/05]* B. Equipment that is in vacuum service is excluded from the requirements of this section. *[Reference: 40 CFR 63, Subpart H, §63.162(d) dated 7/1/05]* C. *Reserved.* D. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures (including the startup, shutdown, and malfunction plan required in paragraph (ii)(B) of this section), review of operation and maintenance records, and inspection of the source. *[Reference: 40 CFR 63, Subpart A, §63.6(e) dated 7/1/00]*	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]* A. [RESERVED] . B. Periodic startup, shutdown, and malfunction reports. If actions taken by the Owner/Operator during a startup, shutdown, or malfunction of an affected source (including actions taken to correct a malfunction) are consistent with the procedures specified in the source's startup, shutdown, and malfunction plan, the Owner/Operator shall state such information in a startup, shutdown, and malfunction report. Reports shall only be required if a startup, shutdown, or malfunction occurred during the reporting period. The startup, shutdown, and malfunction report shall consist of a letter, containing the name, title, and signature of the Owner/Operator or other responsible official who is certifying its accuracy, that shall be submitted to the Department semiannually. The startup, shutdown, and malfunction report shall be delivered or postmarked by the January 22 and July 22 of each year for the periods of May 1 - November 30 and December 1 - June 31 respectively. This report may be submitted simultaneously with the periodic report required by Section 12(v) of this unit. *[Reference: 40 CFR 63, Subpart A, §63.10(d) dated 7/1/00]* C. Immediate startup, shutdown, and malfunction reports. Any time an action taken by an Owner/Operator during a startup, shutdown, or malfunction (including actions taken to correct a

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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
dated 7/1/00] ii. Operational Limitations: A. Operation and maintenance: 1. At all times, including periods of startup, shutdown, and malfunction, owners or operators shall operate and maintain any affected source, including associated air pollution control equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. During a period of startup, shutdown, or malfunction, this general duty to minimize emissions requires that the owner or operator reduce emissions from the affected source to the greatest extent which is consistent with safety and good air pollution control practices. The general duty to minimize emissions during a period of startup, shutdown, or malfunction does not require the owner or operator to achieve emission levels that would be required by the applicable standard at other times if this is not consistent with safety and good air pollution control practices, nor does it require the Owner/Operator to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. 2. Malfunctions must be corrected as soon as practicable after their occurrence in accordance with the startup, shutdown, and malfunction plan required in paragraph (B) of this section. To the extent that an unexpected event arises during a startup, shutdown, or malfunction, the Owner/Operator must comply by	v. Recordkeeping: 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]* A. All records and information required by this section shall be maintained in a manner that can be readily accessed at the plant site. *[Reference: Regulation 30, Section 6(a)(3) dated 12/11/00]* B. [Reserved] C. The Owner/Operator must maintain a current SSM plan and must make the plan available upon request for inspection and copying by the Department. In addition, if the SSM plan is subsequently revised, the Owner/Operator must maintain each previous (i.e., superseded) version of the SSM plan, and must make each such previous version available for inspection and copying by the Administrator, for a period of 5 years after each revision to the plan. The Administrator may at any time request in writing that the Owner/Operator submit a copy of any SSM plan (or a portion thereof) which is maintained at the affected source or in the possession of the Owner/Operator. Upon receipt of such a request, the Owner/Operator must promptly submit a copy of the requested plan (or a portion thereof) to the Administrator. The Administrator must request that the Owner/Operator submit a particular SSM plan (or a portion thereof) whenever a member of the public submits a specific and reasonable request to examine or to receive a copy of that plan or portion of a plan. The Owner/Operator may elect to submit the required copy of any SSM plan to the Administrator in an electronic format. If the Owner/Operator claims that any	malfunction) is not consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the Owner/Operator shall report the actions taken for that event within 2 working days after commencing actions inconsistent with the plan followed by a letter within 7 working days after the end of the event. The immediate report required under this paragraph shall consist of a telephone call (or facsimile (FAX) transmission) to the Department within 2 working days after commencing actions inconsistent with the plan, and it shall be followed by a letter, delivered or postmarked within 7 working days after the end of the event, that contains the name, title, and signature of the Owner/Operator or other responsible official who is certifying its accuracy, explaining the circumstances of the event, the reasons for not following the startup, shutdown, and malfunction plan, and whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred. *[Reference: 40 CFR 63, Subpart A, §63.10(d) dated 7/1/00]* vii. Compliance 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]*

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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
minimizing emissions during such a startup, shutdown, or malfunction event consistent with safety and good air pollution control practices. *[Reference: 40 CFR 63, Subpart A, §63.6(e)(1) dated 7/1/05]* B. Startup, shutdown, and malfunction (SSM) plan. 1. The Owner/Operator must develop and implement a written startup, shutdown, and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the relevant standard. The purpose of the startup, shutdown, and malfunction plan is to: a. Ensure that, at all times, the Owner/Operator operates and maintains each affected source, including associated air pollution control equipment, in a manner which satisfies the general duty to minimize emissions established by Operational Limitation (A)(1) of this section; b. Ensure that owners or operators are prepared to correct malfunctions as soon as practicable after their occurrence in order to minimize excess emissions of hazardous air pollutants; and c. Reduce the reporting burden associated with periods of startup, shutdown, and malfunction (including corrective action taken to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation).	portion of such a SSM plan is confidential business information entitled to protection from disclosure under section 114(c) of the Act or 40 CFR 2.301, the material which is claimed as confidential must be clearly designated in the submission. *[Reference: 40 CFR 63, Subpart A, §63.6(e)(3)(v) dated 7/1/05]* D. General recordkeeping requirements: 1. The Owner/Operator of an affected source subject to the provisions of this part shall maintain files of all information (including all reports and notifications) required by this section recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. 2. The Owner/Operator of an affected source subject to the provisions of this part shall maintain relevant records for such source of: a. The occurrence and duration of each startup, shutdown, or malfunction of operation (i.e., process equipment); b. The occurrence and duration of each malfunction of the air pollution control equipment; c. All maintenance performed on the air pollution control equipment; d. Actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and air pollution control equipment to its	

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
2. During periods of startup, shutdown, and malfunction, the Owner/Operator must operate and maintain such source (including associated air pollution control equipment) in accordance with the procedures specified in the startup, shutdown, and malfunction plan developed under paragraph (B)(1) of this section. 3. When actions taken by the Owner/Operator during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) are consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the Owner/Operator shall keep records for that event that demonstrate that the procedures specified in the plan were followed. These records may take the form of a "checklist," or other effective form of recordkeeping, that confirms conformance with the startup, shutdown, and malfunction plan for that event. The Owner/Operator shall confirm that actions taken during the relevant reporting period during periods of startup, shutdown, and malfunction were consistent with the startup, shutdown and malfunction plan in the semiannual startup, shutdown, and malfunction report required in 40 CFR 63.10(d)(5). 4. To satisfy the requirements of this section to develop an SSM plan, the Owner/Operator may use the affected source's standard operating procedures (SOP) manual, or an Occupational Safety and Health Administration (OSHA) or other plan, provided the alternative plans meet all the requirements of this section and are	normal or usual manner of operation) when such actions are different from the procedures specified in the affected source's startup, shutdown, and malfunction plan; e. All information necessary to demonstrate conformance with the affected source's startup, shutdown, and malfunction plan when all actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan. (The information needed to demonstrate conformance with the startup, shutdown, and malfunction plan may be recorded using a "checklist," or some other effective form of recordkeeping, in order to minimize the recordkeeping burden for conforming events); f. All required measurements needed to demonstrate compliance with a relevant standard (including, but not limited to, raw performance testing measurements, and raw performance evaluation measurements, that support data that the source is required to report); g. All results of performance tests, and opacity and visible emission observations; h. All measurements as may be necessary to determine the conditions	

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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
made available for inspection when requested by the Administrator. *[Reference: 40 CFR 63, Subpart A, §63.6(e)(3)(vi) dated 7/1/05]* 5. Based on the results of a determination made under 40 CFR 63.6(e)(2) of this section, the Department may require that an Owner/Operator of an affected source make changes to the SSM plan for that source. The Department may require reasonable revisions to a startup, shutdown, and malfunction plan, if the Department finds that the plan: a. Does not address a startup, shutdown, or malfunction event that has occurred; b. Fails to provide for the operation of the source (including associated air pollution control equipment) during a startup, shutdown, or malfunction event in a manner consistent with good air pollution control practices for minimizing emissions; c. Does not provide adequate procedures for correcting malfunctioning process and/or air pollution control equipment as quickly as practicable; or d. Includes an event that does not meet the definition of startup, shutdown, or malfunction listed in §63.2. *[Reference: 40 CFR 63, Subpart A, §63.6(e)(3)(vii) dated 7/1/05]* 6. The Owner/Operator may periodically revise the startup, shutdown, and malfunction plan as necessary to satisfy the requirements of this section or to reflect changes in equipment or procedures at the affected source. Unless the Department provides otherwise, the Owner/Operator may make such revisions to the SSM plan	of performance tests and performance evaluations; i. All documentation supporting notifications of compliance status. *[Reference: 40 CFR 63, Subpart A, §63.10(b) dated 7/1/00]*	

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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
without prior approval. However, each revision to an SSM plan must be reported in the semiannual report required by §63.10(d)(5). If the SSM plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction but was not included in the startup, shutdown, and malfunction plan at the time the Owner/Operator developed the plan, the Owner/Operator shall revise the startup, shutdown, and malfunction plan within 45 days after the event to include detailed procedures for operating and maintaining the source during similar malfunction events and a program of corrective action for similar malfunctions of process or air pollution control equipment. In the event that the Owner/Operator makes any revision to the SSM plan which alters the scope of the activities at the source which are deemed to be a startup, shutdown, or malfunction, or otherwise modifies the applicability of any emission limit, work practice requirement in a standard established under this part, the revised plan shall not take effect until after the Owner/Operator has provided a written notice describing the revision to the Department. *[Reference: 40 CFR 63, Subpart A, §63.6(e)(3)(viii) dated 7/1/05]* 7. The Owner/Operator must adopt a SSM plan which conforms to the provisions of §63.6 and the Owner/Operator must operate and maintain the source in accordance with the procedures specified in the current SSM plan. Any revisions made to the SSM plan in accordance with the procedures established by §63.6 shall not		

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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
be deemed to constitute permit revisions under 40 CFR Part 70 and 71. None of the procedures specified by the SSM plan shall be deemed to fall within the permit shield provision in section 504(f) of the Act. *[Reference: 40 CFR 63, Subpart A, §63.6(e)(3)(ix) dated 7/1/05]*		
2. **Pumps in Light Liquid Service.** i. Emission Standard: The Owner/Operator shall monitor and repair each pump that is in light liquid service according to the provisions of this section. *[Reference: 40 CFR 63, Subpart H, §63.163(a) dated 7/1/05]*	ii. Compliance Method: Compliance with this emission standard and these operation limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00]* iii. Monitoring/Testing: A. The Owner/Operator of a process unit subject to this subpart shall monitor each pump monthly to detect leaks by the method specified in 40 CFR 63, Subpart H, §63.180(b) dated 7/1/00 and shall comply with the requirements of paragraphs (A) through (C) of this section, except as provided in paragraphs (D) through (H) of this section. 1. The instrument reading, as determined by the method specified in 40 CFR 63.180(b), that defines a leak is 1,000 parts per million. 2. Each pump shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. *[Reference: 40 CFR 63, Subpart H, §63.163(b) dated 7/1/00]* B. Leak Repair 1. When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is	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: *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]* A. [RESERVED]. B. Other reporting requirements are covered under Condition 3 - Table 1(bb)(12). vi. Compliance 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]*

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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
	detected, except as provided in §63.163(C)(3) or Section 9 of this unit. 2. A first attempt at repair shall be made no later than 5 calendar days after the leak is detected. First attempts at repair include, but are not limited to, the following practices where practicable: a. Tightening of packing gland nuts. b. Ensuring that the seal flush is operating at design pressure and temperature. 3. Repair is not required unless an instrument reading of 2,000 parts per million or greater is detected at the pump. *[Reference: 40 CFR 63, Subpart H, §63.163(c) dated 7/1/00]* C. Pump Quality Improvement: 1. If calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak, the Owner/Operator shall implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63, Subpart H, §63.176 dated 7/1/00. 2. The number of pumps at a process unit shall be the sum of all the pumps in organic HAP service, except that pumps found leaking in a continuous process unit within 1 month after start-up of the pump shall not count in the percent leaking pumps calculation for that one monitoring period only. 3. Percent leaking pumps shall be determined by the following equation: $\%P_L=((P_L-P_S)/(P_T-P_S))X100$ where,	

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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
	$\%P_L$ = Percent leaking pumps P_L = Number of pumps found leaking P_T = Total number of pumps in organic HAP service, including those meeting the criteria of paragraphs (D) and (E) of this section. P_S = Number of pumps leaking within 1 month of start-up during the current monitoring period. *[Reference: 40 CFR 63, Subpart H, §63.163(d) dated 7/1/00]* D. Each pump equipped with a dual mechanical seal system that includes a barrier fluid system is exempt from the requirements of paragraphs (A) through (C) of this section, provided the following requirements are met: 1. Each dual mechanical seal system is: a. Operated with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or b. Equipped with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of Section 10 of this unit; or c. Equipped with a closed-loop system that purges the barrier fluid into a process stream. 2. The barrier fluid is not in light liquid service. 3. Each barrier fluid system is equipped with a sensor that will detect failure of the seal system, the barrier fluid system, or both. 4. Each pump is checked by visual inspection each calendar week for indications of liquids dripping from the pump seal.	

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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
	a. If there are indications of liquids dripping from the pump seal at the time of the weekly inspection, the pump shall be monitored as specified in 40 CFR 63, Subpart H, §63.180(b) dated 7/1/00 to determine if there is a leak of organic HAP in the barrier fluid. b. If an instrument reading of 1,000 parts per million or greater is measured, a leak is detected. 5. Each sensor as described in paragraph (D)(3) of this section is observed daily or is equipped with an alarm. 6. Other leak determinations: a. The Owner/Operator determines, based on design considerations and operating experience, criteria applicable to the presence and frequency of drips and to the sensor that indicates failure of the seal system, the barrier fluid system, or both. b. If indications of liquids dripping from the pump seal exceed the criteria established in paragraph (D)(6)(a) of this section, or if, based on the criteria established in paragraph (D)(6)(a) of this section, the sensor indicates failure of the seal system, the barrier fluid system, or both, a leak is detected. c. 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 9 of this unit. d. A first attempt at repair shall be made no later than 5 calendar days after	

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	each leak is detected. *[Reference: 40 CFR 63, Subpart H, §63.163(e) dated 7/1/00]* E. Any pump that is designed with no externally actuated shaft penetrating the pump housing is exempt from the requirements of paragraphs (A) and (B) of this section. *[Reference: 40 CFR 63, Subpart H, §63.163(f) dated 7/1/00]* F. Any pump equipped with a closed-vent system capable of capturing and transporting any leakage from the seal or seals to a process or to a fuel gas system or to a control device that complies with the requirements of Section 10 of this unit is exempt from the requirements of paragraphs (A) through (D) of this section. *[Reference: 40 CFR 63, Subpart H, §63.163(g) dated 7/1/00]* G. If more than 90 percent of the pumps at a process unit meet the criteria in either paragraph (D) or (E) of this section, the process unit is exempt from the requirements of paragraph (C) of this section. *[Reference: 40 CFR 63, Subpart H, §63.163(i) dated 7/1/00]* H. Any pump that is designated, as described as an unsafe-to-monitor pump is exempt from the requirements of paragraphs (A) through (D) of this section if: 1. The Owner/Operator of the pump determines that the pump is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with paragraphs (A) through (C) of this section; and 2. The Owner/Operator of the pump has a written plan that requires monitoring of the pump as frequently as practical during safe-to-monitor times, but not more	

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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
	frequently than the periodic monitoring schedule otherwise applicable. *[Reference: 40 CFR 63, Subpart H, §63.163(j) dated 7/1/00]* I. When each leak is detected the following requirements apply: 1. A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment. 2. The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and no leak has been detected during the follow-up monitoring. If the Owner/Operator elects to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in and no leak is detected during that monitoring. 3. The identification which has been placed on equipment determined to have a leak, except for a valve or for a connector that is subject to the provisions of Section 11(iii)(C)(1)(a), may be removed after it is repaired. *[Reference: 40 CFR 63, Subpart H, §63.162(f) dated 7/1/00]* iv. Recordkeeping: 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]* A. All records and information required by this section shall be maintained in a manner that can be readily accessed at the plant site. *[Reference: 40 CFR 63, Subpart H, §63.181(a) dated*	

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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
	7/1/00] B. The following information pertaining to all equipment in each process unit subject to this section shall be recorded: 1. A list of identification numbers for equipment that the Owner/Operator elects to equip with a closed-vent system and control device, under the provisions of paragraph (iii)(F) of this section. 2. The following information shall be recorded for each dual mechanical seal system: a. Design criteria required in paragraph (iii)(D)(6)(a) of this section and an explanation of the design criteria; and b. Any changes to these criteria and the reasons for the changes. 3. The following information pertaining to all pumps subject to the provisions of paragraph (iii)(H) of this section shall be recorded: a. Identification of equipment designated as unsafe to monitor, difficult to monitor, or unsafe to inspect and the plan for monitoring or inspecting this equipment. b. A list of identification numbers for the equipment that is designated as difficult to monitor, an explanation of why the equipment is difficult to monitor, and the planned schedule for monitoring this equipment. c. A list of identification numbers for connectors that are designated as unsafe to repair and an explanation why the connector is unsafe to repair. *[Reference: 40 CFR 63, Subpart H, §63.181(b) dated 7/1/00]* C. For visual inspections of equipment subject to the provisions of this section, the	

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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
	Owner/Operator shall document that the inspection was conducted and the date of the inspection. The Owner/Operator shall maintain records as specified in paragraph (D) of this section for leaking equipment identified in this inspection. *[Reference: 40 CFR 63, Subpart H, §63.181(c) dated 7/1/00]* D. When a leak is detected, information shall be recorded and kept for 5 years as required by Section 12(iv)(C) of this unit. *[Reference: 40 CFR Part 63, Subpart 63.181(d), dated 7/1/2000]*	
3. **Compressors:** i. Operational Limitations: A. Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in paragraphs (iii)(E) and (iii)(F) of this section. *[Reference: 40 CFR 63, Subpart H, §63.164(a) dated 7/1/00]* B. Each compressor seal system as required in paragraph (A) of this section shall be: 1. Operated with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or 2. Equipped with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of Section 10 of this unit; or 3. Equipped with a closed-loop system that purges the barrier fluid directly into a process stream. *[Reference: 40 CFR 63, Subpart H, §63.164(b) dated 7/1/00]* C. The barrier fluid shall not be in light liquid service. *[Reference: 40 CFR 63, Subpart H,*	ii. Compliance Method: Compliance with this emission standard and these operation limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00]* iii. Monitoring/Testing: A. Each barrier fluid system as described in paragraphs (i)(A) through (i)(C) of this section shall be equipped with a sensor that will detect failure of the seal system, barrier fluid system, or both. *[Reference: 40 CFR 63, Subpart H, §63.164(d) dated 7/1/00]* B. Leak Observations: 1. Each sensor as required in paragraph (A) of this section shall be observed daily or shall be equipped with an alarm. 2. The Owner/Operator shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. *[Reference: 40 CFR 63, Subpart H, §63.164(e) dated 7/1/00]* C. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under paragraph	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: *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]* A. [RESERVED]. B. Other reporting requirements are covered under Condition 3 - Table 1(bb)(12). vi. Compliance 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]*

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
§63.164(c) dated 7/1/00]	(B)(2) of this section, a leak is detected. *[Reference: 40 CFR 63, Subpart H, §63.164(f) dated 7/1/00]* D. Leak Repair: 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 9 of this unit. 2. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. *[Reference: 40 CFR 63, Subpart H, §63.164(g) dated 7/1/00]* E. A compressor is exempt from the requirements of this section if it is equipped with a closed-vent system to capture and transport leakage from the compressor drive shaft seal back to a process or a fuel gas system or to a control device that complies with the requirements of Section 10 of this unit. *[Reference: 40 CFR 63, Subpart H, §63.164(h) dated 7/1/00]* F. Any compressor that is designated, as described in paragraph (iv)(B)(2) of this unit, to operate with an instrument reading of less than 500 parts per million above background, is exempt from the requirements of this section if the compressor: 1. Is demonstrated to be operating with an instrument reading of less than 500 parts per million above background, as measured by the method specified in 40 CFR 63, Subpart H, §63.180(c) dated 7/1/00; and 2. Is tested for compliance with paragraph (F)(1) of this section initially upon designation, annually, and at other times requested by the Department. *[Reference: 40 CFR 63, Subpart H, §63.164(i) dated*	

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
	7/1/00] G. When each leak is detected the following requirements apply: 1. A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment. 2. The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and no leak has been detected during the follow-up monitoring. If the Owner/Operator elects to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in and no leak is detected during that monitoring. 3. The identification which has been placed on equipment determined to have a leak, except for a valve or for a connector that is subject to the provisions of Section 11(iii)(C)(1)(a), may be removed after it is repaired. *[Reference: 40 CFR 63, Subpart H, §63.162(f) dated 7/1/00]* iv. Recordkeeping: 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]* A. All records and information required by this section shall be maintained in a manner that can be readily accessed at the plant site. *[Reference: 40 CFR 63, Subpart H, §63.181(a) dated 7/1/00]* B. The following information pertaining to all equipment in each process unit subject to this	

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
	section shall be recorded: 1. A list of identification numbers for equipment that the Owner/Operator elects to equip with a closed-vent system and control device, under the provisions of paragraph (iii)(E) of this section. 2. A list of identification numbers for compressors that the Owner/Operator elects to designate as operating with an instrument reading of less than 500 parts per million above background, under the provisions of paragraph (iii)(F) of this section. 3. The following information shall be recorded for each dual mechanical seal system: a. Design criteria required in paragraph (iii)(B)(2) of this section and an explanation of the design criteria; and b. Any changes to these criteria and the reasons for the changes. *[Reference: 40 CFR 63, Subpart H, §63.181(b) dated 7/1/00]* C. When a leak is detected, information shall be recorded and kept for 5 years as required by Section 12(iv)(C) of this unit. *[Reference: 40 CFR Part 63, Subpart 63.181(d), dated 7/1/2000]* D. The dates and results of each compliance test required for compressors subject to the provisions in paragraph (iii)(F) of this section. The results shall include: 1. The background level measured during each compliance test. 2. The maximum instrument reading measured at each piece of equipment during each compliance test. *[Reference: 40 CFR 63, Subpart H, §63.181(f) dated 7/1/00]*	
4. **Pressure Relief Devices in Gas/Vapor**	ii. Compliance Method:	v. Reporting:

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
Service. i. Emission Standard: Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with an instrument reading of less than 500 parts per million above background except as provided in paragraph (iii)(B) of this section, as measured by the method specified in 40 CFR 63, Subpart H, §63.180(c) dated 7/1/00. *[Reference: 40 CFR 63, Subpart H, §63.165(a) dated 7/1/00]*	Compliance with this emission standard and these operation limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00]* iii. Monitoring/Testing: A. Reseating Valves: 1. After each pressure release, the pressure relief device shall be returned to a condition indicated by an instrument reading of less than 500 parts per million above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in Section 9 of this unit. 2. No later than 5 calendar days after the pressure release and being returned to organic HAP service, the pressure relief device shall be monitored to confirm the condition indicated by an instrument reading of less than 500 parts per million above background, as measured by the method specified in 40 CFR 63, Subpart H, §63.180(c) dated 7/1/00. *[Reference: 40 CFR 63, Subpart H, §63.165(b) dated 7/1/00]* B. Any pressure relief device that is routed to a process or fuel gas system or equipped with a closed-vent system capable of capturing and transporting leakage from the pressure relief device to a control device as described in Section 10 of this unit is exempt from the requirements of paragraphs (i) and (iii)(A) of this section. *[Reference: 40 CFR 63, Subpart H, §63.165(c) dated 7/1/00]* C. Rupture Disks: 1. Any pressure relief device that is equipped with a rupture disk upstream of the	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]* A. [RESERVED]. B. Other reporting requirements are covered under Condition 3 - Table 1(bb)(12). vi. Compliance 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]*

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
	pressure relief device is exempt from the requirements of paragraphs (i) and (iii)(A), provided the Owner/Operator complies with the requirements in paragraph (C)(2). 2. After each pressure release, a rupture disk shall be installed upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in Section 9 of this unit. *[Reference: 40 CFR 63, Subpart H, §63.165(d) dated 7/1/00]* iv. Recordkeeping 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]* A. All records and information required by this section shall be maintained in a manner that can be readily accessed at the plant site. *[Reference: 40 CFR 63, Subpart H, §63.181(a) dated 7/1/00]* B. The following information pertaining to all equipment in each process unit subject to this section shall be recorded: 1. A list of identification numbers for equipment that the Owner/Operator elects to equip with a closed-vent system and control device, under the provisions of paragraph (iii)(B) of this section. 2. A list of identification numbers for pressure relief devices equipped with rupture disks, under the provisions of paragraph (iii)(A) of this section. *[Reference: 40 CFR 63, Subpart H, §63.181(b) dated 7/1/00]* C. When a leak is detected, information shall be	

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
	recorded and kept for 5 years as required by section 12(v)(C) of this unit. *[Reference: 40 CFR 63, Subpart H, §63.181(d) dated 7/1/00]*	
5. **Sampling Connection Systems.** i. Operational Standards: A. Each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system. Gases displaced during filling of the sample container are not required to be collected or captured. *[Reference: 40 CFR 63, Subpart H, §63.166(a) dated 7/1/00]* B. Each closed-purge, closed-loop, or closed-vent system as required in paragraph (A) of this section shall: 1. Return the purged process fluid directly to the process line; or 2. Collect and recycle the purged process fluid to a process; or 3. Be designed and operated to capture and transport the purged process fluid to a control device that complies with the requirements of Section 10 of this unit; or 4. Collect, store, and transport the purged process fluid to a system or facility identified in paragraph (B)(4)(a), (b), or (c) of this section. a. A waste management unit, as defined in 40 CFR 63, Subpart G, §63.111 dated 7/1/00, if the waste management unit is subject to, and operated in compliance with the provisions of subpart G applicable to group 1 wastewater streams. If the purged process fluid does not contain any organic HAP listed in Table 9 of subpart G, the waste management unit need not be subject to, and operated in compliance with the requirements of 40 CFR part 63, subpart G applicable	ii. Compliance Method: Compliance with this emission standard and these operation limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00]* iii. Monitoring/Testing: None. iv. Recordkeeping: 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]* A. All records and information required by this section shall be maintained in a manner that can be readily accessed at the plant site. *[Reference: 40 CFR 63, Subpart H, §63.181(a) dated 7/1/00]* B. When a leak is detected, information shall be recorded and kept for 5 years as required by section 12(C) of this unit. *[Reference: 40 CFR 63, Subpart H, §63.181(d) dated 7/1/00]*	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: *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]* A. [RESERVED] B. Other reporting requirements are covered under Condition 3 - Table 1(bb)(12). vi. Compliance 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]*

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
to group 1 wastewater streams provided the facility has an NPDES permit or sends the wastewater to an NPDES permitted facility. b. A treatment, storage, or disposal facility subject to regulation under 40 CFR parts 262, 264, 265, or 266, all dated 7/1/00; or c. A facility permitted, licensed, or registered by a State to manage municipal or industrial solid waste, if the process fluids are not hazardous waste as defined in 40 CFR part 261 dated 7/1/00. *[Reference: 40 CFR 63, Subpart H, §63.166(b) dated 7/1/00]* C. In-situ sampling systems and sampling systems without purges are exempt from the requirements of Operational Standards (A) and (B). *[Reference: 40 CFR 63, Subpart H, §63.166(c) dated 7/1/00]*		
6. **Open-ended Valves or Lines.** i. Operational Standard: A. Equipment Requirements: 1. Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in Operational Standards (D) and (E). 2. The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. *[Reference: 40 CFR 63, Subpart H, §63.167(a) dated 7/1/00]* B. Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.	ii. Compliance Method: Compliance with this emission standard and these operation limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00]* iii. Monitoring/Testing: None. iv. Recordkeeping: In addition to the requirements of Conditions 3(b)(1)(ii) of this permit, the Company shall: A. All records and information required by this section shall be maintained in a manner that can be readily accessed at the plant site. *[Reference: 40 CFR 63, Subpart H, §63.181(a) dated 7/1/00]*	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: *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]* A. [RESERVED]. B. Other reporting requirements are covered under Condition 3 - Table 1(bb)(12). vi. Compliance 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]*

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
[Reference: 40 CFR 63, Subpart H, §63.167(b) dated 7/1/00] C. When a double block and bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with Operational Standard (A) at all other times. *[Reference: 40 CFR 63, Subpart H, §63.167(c) dated 7/1/00]* D. Open-ended valves or lines in an emergency shutdown system which are designed to open automatically in the event of a process upset are exempt from the requirements of Operational Standards (A), (B) and (C). *[Reference: 40 CFR 63, Subpart H, §63.167(d) dated 7/1/00]* E. Open-ended valves or lines containing materials which would autocatalytically polymerize or, would present an explosion, serious overpressure, or other safety hazard if capped or equipped with a double block and bleed system as specified in Operational Standards (A) through (C) are exempt from the requirements of Operational Standards (A) through (C). *[Reference: 40 CFR 63, Subpart H, §63.167(e) dated 7/1/00]*		
7. **Valves in Gas/Vapor Service and in Light Liquid Service.** i. Emission Standard: The Owner/Operator shall monitor and repair valves that are either in gas service or in light liquid service according to the provisions of this section. *[Reference: 40 CFR 63, Subpart H, §63.168(a) dated 7/1/00]*	ii. Compliance Method: Compliance with this emission standard and these operation limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00]* iii. Monitoring/Testing: A. The Owner/Operator of a source subject to this subpart shall monitor all valves, except as provided in paragraphs (F) and (G) of this section, at the intervals specified in paragraph (B) of this section and shall comply with all	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: *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]* A. [RESERVED]. B. Other reporting requirements are covered under Condition 3 - Table 1(bb)(12). vi. Compliance Certification: That required by Condition 3(c)(3) of this permit. *[Reference: 7 **DE Admin Code** 1130*

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
	other provisions of this section, except as provided in Section 9 of this unit. 1. The valves shall be monitored to detect leaks by the method specified in 40 CFR 63, Subpart H, §63.180(b) dated 7/1/00. 2. The instrument reading that defines a leak in each phase of the standard is 500 parts per million or greater. *[Reference: 40 CFR 63, Subpart H, §63.168(b) dated 7/1/00]* B. The Owner/Operator shall monitor valves for leaks at the intervals specified below: 1. At process units with 2 percent or greater leaking valves, calculated according to paragraph (C) of this section, the Owner/Operator shall monitor each valve once per month or implement a Quality Improvement program for valves that comply with the requirements of §63.175(d) and (e) and monitor on a quarterly basis. 2. At process units with less than 2 percent leaking valves, the Owner/Operator shall monitor each valve once each quarter, except as provided in paragraphs (B)(3) and (B)(4) of this section. 3. At process units with less than 1 percent leaking valves, the Owner/Operator may elect to monitor each valve once every 2 quarters. 4. At process units with less than 0.5 percent leaking valves, the Owner/Operator may elect to monitor each valve once every 4 quarters. *[Reference: 40 CFR 63, Subpart H, §63.168(d) dated 7/1/00]* C. Calculating Leaking Valves: 1. Percent leaking valves at a process unit shall be determined by the following	*Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]*

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
	equation: **$\%V_L=(V_L/(V_T+V_C))$ x 100** where: $\%V_L$= Percent leaking valves as determined through periodic monitoring. V_L= Number of valves found leaking excluding nonrepairables as provided in paragraph (C)(3)(a) of this section. V_T= Total valves monitored, in a monitoring period excluding valves monitored as required by (D)(3) of this section. V_C= Optional credit for removed valves=0.67 x net number (i.e., total removed-total added) of valves in organic HAP service removed from process unit after October 24, 1994 or after the date of initial startup for new sources. If credits are not taken, then V_C=0. 2. For use in determining monitoring frequency, as specified in paragraph (B) of this section, the percent leaking valves shall be calculated as a rolling average of two consecutive monitoring periods for monthly, quarterly, or semiannual monitoring programs; and as an average of any three out of four consecutive monitoring periods for annual monitoring programs. 3. Nonrepairable valves: a. Nonrepairable valves shall be included in the calculation of percent leaking	

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
	valves the first time the valve is identified as leaking and nonrepairable and as required to comply with paragraph (C)(3)(b) of this section. Otherwise, a number of nonrepairable valves (identified and included in the percent leaking calculation in a previous period) up to a maximum of 1 percent of the total number of valves in organic HAP service at a process unit may be excluded from calculation of percent leaking valves for subsequent monitoring periods. b. If the number of nonrepairable valves exceeds 1 percent of the total number of valves in organic HAP service at a process unit, the number of nonrepairable valves exceeding 1 percent of the total number of valves in organic HAP service shall be included in the calculation of percent leaking valves. *[Reference: 40 CFR 63, Subpart H, §63.168(e) dated 7/1/00]* D. Leak repair: 1. 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 9 of this unit. 2. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. 3. When a leak has been repaired, the valve shall be monitored at least once within the first 3 months after its repair. a. The monitoring shall be conducted as specified in 40 CFR 63, Subpart H, §63.180 (b) and (c) dated 7/1/00, as	

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
	appropriate, to determine whether the valve has resumed leaking. b. Periodic monitoring required by paragraphs (A) and (B) of this section may be used to satisfy the requirements of this paragraph (D)(3) if the timing of the monitoring period coincides with the time specified in this paragraph (D)(3). Alternatively, other monitoring may be performed to satisfy the requirements of this paragraph (D)(3), regardless of whether the timing of the monitoring period for periodic monitoring coincides with the time specified in this paragraph (D)(3). c. If a leak is detected by monitoring that is conducted pursuant to paragraph (D)(3) of this section, the Owner/Operator shall follow the following provisions to determine whether that valve must be counted as a leaking valve for purposes of paragraph (C) of this subpart. i. If the Owner/Operator elected to use periodic monitoring required by paragraphs (A) and (B) of this section to satisfy the requirements of paragraph (D)(3) of this section, then the valve shall be counted as a leaking valve. ii. If the Owner/Operator elected to use other monitoring, prior to the periodic monitoring required by paragraphs (A) and (B), to satisfy the requirements of paragraph (D)(3), then the valve shall be	

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
	counted as a leaking valve unless it is repaired and shown by periodic monitoring not to be leaking. *[Reference: 40 CFR 63, Subpart H, §63.168(f) dated 7/1/00]* E. First attempts at repair include, but are not limited to, the following practices where practicable: 1. Tightening of bonnet bolts, 2. Replacement of bonnet bolts, 3. Tightening of packing gland nuts, and 4. Injection of lubricant into lubricated packing. *[Reference: 40 CFR 63, Subpart H, §63.168(g) dated 7/1/00]* F. Any valve that is designated as unsafe-to-monitor is exempt from the requirements of paragraphs (A) through (D) of this section if: 1. The Owner/Operator determines that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with paragraphs (A) and (B) of this section; and 2. The Owner/Operator has a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. *[Reference: 40 CFR 63, Subpart H, §63.168(h) dated 7/1/00]* G. Any valve that is designated as a difficult-to-monitor valve is exempt from the requirements of paragraphs (A) and (B) of this section if: 1. The Owner/Operator determines that the valve cannot be monitored without elevating the monitoring personnel more	

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
	than 2 meters above a support surface or it is not accessible at anytime in a safe manner; 2. The process unit within which the valve is located is an existing source or the Owner/Operator designates less than 3 percent of the total number of valves in a new source as difficult-to-monitor; and 3. The Owner/Operator follows a written plan that requires monitoring of the valve at least once per calendar year. *[Reference: 40 CFR 63, Subpart H, §63.168(i) dated 7/1/00]* H. When each leak is detected the following requirements apply: 1. A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment. 2. The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and no leak has been detected during the follow-up monitoring. If the Owner/Operator elects to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in and no leak is detected during that monitoring. 3. The identification which has been placed on equipment determined to have a leak, except for a valve or for a connector that is subject to the provisions of Section 11(iii)(C)(1)(a), may be removed after it is repaired. *[Reference: 40 CFR 63, Subpart H, §63.162(f) dated 7/1/00]* iv. Recordkeeping:	

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
	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]* A. All records and information required by this section shall be maintained in a manner that can be readily accessed at the plant site. *[Reference: 40 CFR 63, Subpart H, §63.181(a) dated 7/1/00]* B. The following information pertaining to all equipment in each process unit subject to this section shall be recorded: 1. A schedule for monitoring valves subject to the provisions of paragraph (iii)(B) of this section. 2. The following information pertaining to all valves subject to the provisions of paragraphs (iii)(F) and (G) of this section shall be recorded: a. Identification of equipment designated as unsafe to monitor, difficult to monitor, or unsafe to inspect and the plan for monitoring or inspecting this equipment. b. A list of identification numbers for the equipment that is designated as difficult to monitor, an explanation of why the equipment is difficult to monitor, and the planned schedule for monitoring this equipment. 3. A list of valves removed from and added to the process unit, as described in paragraph (iii)(C)(1) of this section, if the net credits for removed valves is expected to be used. *[Reference: 40 CFR 63, Subpart H, §63.181(b) dated 7/1/00]* C. When a leak is detected, information shall be recorded and kept for 5 years as required by	

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
	section 12(iv)(C) of this unit. *[Reference: 40 CFR 63, Subpart H, §63.181(d) dated 7/1/00]*	
8. **Pumps, Valves, Connectors, and Agitators in Heavy Liquid Service; Instrumentation Systems; and Pressure Relief Devices in Liquid Service.** i. Emission Standard: The Owner/Operator shall monitor and repair pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service according to the provisions of this section. *[Reference: 40 CFR 63, Subpart H, §63.169(a) dated 7/1/00]*	ii. Compliance Method: Compliance with this emission standard and these operation limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00]* iii. Monitoring/Testing: A. Pumps, valves, connectors, and agitators in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and instrumentation systems shall be monitored within 5 calendar days by the method specified in 40 CFR 63, Subpart H, §63.180(b) dated 7/1/00, if evidence of a potential leak to the atmosphere is found by visual, audible, olfactory, or any other detection method. If such a potential leak is repaired as required in paragraphs (C) and (D) of this section, it is not necessary to monitor the system for leaks by the method specified in 40 CFR 63, Subpart H, §63.180(b) dated 7/1/00. *[Reference: 40 CFR 63, Subpart H, §63.169(a) dated 7/1/00]* B. If an instrument reading of 10,000 parts per million or greater for agitators, 2,000 parts per million or greater for pumps, or 500 parts per million or greater for valves, connectors, instrumentation systems, and pressure relief devices is measured, a leak is detected. *[Reference: 40 CFR 63, Subpart H, §63.169(b) dated 7/1/00]* C. Leak Repair: 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 9 of this unit.	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: *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]* A. [RESERVED]. B. Other reporting requirements are covered under Condition 3 - Table 1(bb)(12). vi. Compliance 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]*

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
	2. The first attempt at repair shall be made no later than 5 calendar days after each leak is detected. 3. For equipment identified in paragraph (A) of this section that is not monitored by the method specified in 40 CFR 63, Subpart H, §63.180(b) dated 7/1/00, repaired shall mean that the visual, audible, olfactory, or other indications of a leak to the atmosphere have been eliminated; that no bubbles are observed at potential leak sites during a leak check using soap solution; or that the system will hold a test pressure. *[Reference: 40 CFR 63, Subpart H, §63.169(c) dated 7/1/00]* D. First attempts at repair include, but are not limited to, the practices described under paragraphs 2(iii)(B)(2) and 7(iii)(E) of this unit, for pumps and valves, respectively. *[Reference: 40 CFR 63, Subpart H, §63.169(d) dated 7/1/00]* E. When each leak is detected the following requirements apply: 1. A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment. 2. The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and no leak has been detected during the follow-up monitoring. If the Owner/Operator elects to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in and no leak is detected during that monitoring. 3. The identification which has been placed on equipment determined to have a leak,	

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
	except for a valve or for a connector that is subject to the provisions of Section 11(iii)(C)(1)(a), may be removed after it is repaired. *[Reference: 40 CFR 63, Subpart H, §63.162(f) dated 7/1/00]* iv. Recordkeeping: 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]* A. All records and information required by this section shall be maintained in a manner that can be readily accessed at the plant site. *[Reference: 40 CFR 63, Subpart H, §63.181(a) dated 7/1/00]* B. The following information pertaining to all equipment in each process unit subject to this section shall be recorded: 1. Identification of instrumentation systems subject to the provisions of this subpart. 2. Individual components in an instrumentation system need not be identified. *[Reference: 40 CFR 63, Subpart H, §63.181(b) dated 7/1/00]* C. The dates and results of the monitoring following a pressure release for each pressure relief device subject to the provisions in paragraphs (i)(A) and (iii)(A) of this section. The results shall include: 1. The background level measured during each compliance test. 2. The maximum instrument reading measured at each piece of equipment during each compliance test. *[Reference: 40 CFR 63, Subpart H, §63.181(f) dated*	

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
	7/1/00] D. Owner/Operator of equipment in heavy liquid service shall comply with the requirements of either paragraph (C)(1) or (C)(2) of this section, as provided in paragraph (C)(3) of this section. 1. Retain information, data, and analyses used to determine that a piece of equipment is in heavy liquid service. 2. When requested by the Department, demonstrate that the piece of equipment or process is in heavy liquid service. 3. A determination or demonstration that a piece of equipment or process is in heavy liquid service shall include an analysis or demonstration that the process fluids do not meet the definition of "in light liquid service." Examples of information that could document this include, but are not limited to, records of chemicals purchased for the process, analyses of process stream composition, engineering calculations, or process knowledge. *[Reference: 40 CFR 63, Subpart H, §63.181(i) dated 7/1/00]*	
9. **Delay of Repair.** i. Operational Standard: A. Delay of repair of equipment for which leaks have been detected is allowed if repair within 15 days is technically infeasible without a process unit shutdown. Repair of this equipment shall occur by the end of the next process unit shutdown. *[Reference: 40 CFR 63, Subpart H, §63.171(a) dated 12/14/00]* B. Delay of repair of equipment for which leaks have been detected is allowed for equipment that is isolated from the process and that does not remain in organic HAP service. *[Reference: 40 CFR 63, Subpart H, §63.171(b)*	ii. Compliance Method: Compliance with this emission standard and these operation limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00]* iii. Monitoring/Testing: None required for this section. iv. Recordkeeping: All records and information required by this section shall be maintained in a manner that can be readily accessed at the plant site. *[Reference: 40 CFR 63,*	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: *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]* A. [RESERVED]. B. Other reporting requirements are covered under Condition 3 - Table 1(bb)(12). vi. Compliance 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]*

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
dated 7/1/00] C. Delay of repair for valves, connectors, and agitators is also allowed if: 1. The Owner/Operator determines that emissions of purged material resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair, and 2. When repair procedures are effected, the purged material is collected and destroyed or recovered in a control device complying with Section 10 of this unit. *[Reference: 40 CFR 63, Subpart H, §63.171(c) dated 7/1/00]* D. Delay of repair for pumps is also allowed if: 1. Repair requires replacing the existing seal design with a new system that the Owner/Operator has determined under the provisions of 40 CFR 63, Subpart H, §63.176(d) dated 7/1/00 will provide better performance or: a. A dual mechanical seal system that meets the requirements of Section (2)(iii)(D) of this unit, b. A pump that meets the requirements of Section (2)(iii)(E) of this unit, or c. A closed-vent system and control device that meets the requirements of Section (2)(iii)(F) of this unit; and 2. Repair is completed as soon as practicable, but not later than 6 months after the leak was detected. *[Reference: 40 CFR 63, Subpart H, §63.171(d) dated 7/1/00]* E. Delay of repair beyond a process unit shutdown will be allowed for a valve if valve assembly replacement is necessary during the process unit shutdown, valve assembly	*Subpart H, §63.181(a) dated 7/1/00]*	

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
supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the second process unit shutdown will not be allowed unless the third process unit shutdown occurs sooner than 6 months after the first process unit shutdown. *[Reference: 40 CFR 63, Subpart H, §63.171(e) dated 7/1/00]*		
10. **Closed-vent Systems and Control Devices.** i. Operational Standards: A. Owners or operators of closed-vent systems and control devices used to comply with provisions of this subpart shall comply with the provisions of this section. *[Reference: 40 CFR 63, Subpart H, §63.172(a) dated 7/1/00]* B. Recovery or recapture devices (e.g., condensers and absorbers) shall be designed and operated to recover the organic hazardous air pollutant emissions or volatile organic compounds emissions vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 parts par million by volume, whichever is less stringent. *[Reference: 40 CFR 63, Subpart H, §63.172(b) dated 7/1/00]* C. Enclosed combustion devices shall be designed and operated to reduce the organic hazardous air pollutant emissions or volatile organic compounds emissions vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 parts per million by volume, on a dry basis, corrected to 3 percent oxygen, whichever is less stringent, or to provide a minimum residence time of 0.50 seconds at a minimum temperature of 760 deg. C. *[Reference: 40 CFR 63, Subpart H, §63.172(c) dated 7/1/00]* D. Flares used to comply with this subpart shall	ii. Compliance Method: Compliance with this emission standard and these operation limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00]* iii. Monitoring/Testing: A. Except as provided in paragraphs (F) and (G) of this section, each closed-vent system shall be inspected according to the procedures and schedule specified in paragraphs (A)(1) and (A)(2) of this section. 1. If the closed-vent system is constructed of hard-piping, the Owner/Operator shall: a. Conduct an initial inspection according to the procedures in paragraph (B) of this section, and b. Conduct annual visual inspections for visible, audible, or olfactory indications of leaks. 2. If the vapor collection system or closed-vent system is constructed of duct work, the Owner/Operator shall: a. Conduct an initial inspection according to the procedures in paragraph (B) of this section, and b. Conduct annual inspections according to the procedures in paragraph (B) of this section.	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: *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]* A. [RESERVED]. B. Other reporting requirements are covered under Condition 3 - Table 1(bb)(12). vi. Compliance 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]*

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
comply with the requirements of 40 CFR 63, Subpart A, §63.11(b) dated 7/1/00. (Covered as part of Unit 12.) *[Reference: 40 CFR 63, Subpart H, §63.172(d) dated 7/1/00]* E. Owners or operators of control devices that are used to comply with the provisions of this subpart shall monitor these control devices to ensure that they are operated and maintained in conformance with their design. *[Reference: 40 CFR 63, Subpart H, §63.172(e) dated 7/1/00]* F. Whenever organic HAP emissions are vented to a closed-vent system or control device used to comply with the provisions of this subpart, such system or control device shall be operating. *[Reference: 40 CFR 63, Subpart H, §63.172(m) dated 7/1/00]*	*[Reference: 40 CFR 63, Subpart H, §63.172(f) dated 7/1/00]* B. Each closed-vent system shall be inspected according to the procedures in 40 CFR 63, Subpart H, §63.180(b) dated 7/1/00 of this subpart. *[Reference: 40 CFR 63, Subpart H, §63.172(g) dated 7/1/00]* C. Leaks, as indicated by an instrument reading greater than 500 parts per million above background or by visual inspections, shall be repaired as soon as practicable, except as provided in paragraph (D) of this section. 1. A first attempt at repair shall be made no later than 5 calendar days after the leak is detected. 2. Repair shall be completed no later than 15 calendar days after the leak is detected, except as provided in paragraph (D) of this section. *[Reference: 40 CFR 63, Subpart H, §63.172(h) dated 7/1/00]* D. Delay of repair of a closed-vent system for which leaks have been detected is allowed if the repair is technically infeasible without a process unit shutdown or if the Owner/Operator determines that emissions resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair. Repair of such equipment shall be complete by the end of the next process unit shutdown. *[Reference: 40 CFR 63, Subpart H, §63.172(i) dated 7/1/00]* E. For each closed-vent system that contains bypass lines that could divert a vent stream away from the control device and to the atmosphere, the Owner/Operator shall comply with the provisions of either paragraph (E)(1) or (E)(2) of this section, except as provided in paragraph (E)(3) of this section.	

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
	1. Install, set or adjust, maintain, and operate a flow indicator that takes a reading at least once every 15 minutes. Records shall be generated as specified in 40 CFR 63, Subpart G, §63.118(a)(3) dated 7/1/00. The flow indicator shall be installed at the entrance to any bypass line; or 2. Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. 3. Equipment such as low leg drains, high point bleeds, analyzer vents, open-ended valves or lines, and pressure relief valves needed for safety purposes are not subject to this paragraph. *[Reference: 40 CFR 63, Subpart H, §63.172(j) dated 7/1/00]* F. Any parts of the closed-vent system that are designated as unsafe to inspect are exempt from the inspection requirements of paragraphs (A)(1) and (A)(2) of this section if: 1. The Owner/Operator determines that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential danger as a consequence of complying with paragraph (A)(1) or (A)(2) of this section; and 2. The Owner/Operator has a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times, but not more frequently than annually. *[Reference: 40 CFR 63, Subpart H, §63.172(k) dated*	

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
	7/1/00] G. Any parts of the closed-vent system that are designated as difficult to inspect are exempt from the inspection requirements of paragraphs (A)(1) and (a)(2) of this section if: 1. The Owner/Operator determines that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface; and 2. The Owner/Operator has a written plan that requires inspection of the equipment at least once every 5 years. *[Reference: 40 CFR 63, Subpart H, §63.172(l) dated 7/1/00]* H. When each leak is detected the following requirements apply: 1. A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment. 2. The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and no leak has been detected during the follow-up monitoring. If the Owner/Operator elects to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in and no leak is detected during that monitoring. 3. The identification which has been placed on equipment determined to have a leak, except for a valve or for a connector that is subject to the provisions of Section 11(iii)(C)(1)(a), may be removed after it is repaired. *[Reference: 40 CFR 63, Subpart H, §63.162(f) dated 7/1/00]*	

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
	iv. Recordkeeping: 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]* A. All records and information required by this section shall be maintained in a manner that can be readily accessed at the plant site. *[Reference: 40 CFR 63, Subpart H, §63.181(a) dated 7/1/00]* B. When a leak is detected, information shall be recorded and kept for 5 years as required by section 12(C) of this unit. *[Reference: 40 CFR 63, Subpart H, §63.181(d) dated 7/1/00]* C. The Owner/Operator shall maintain records of the information specified in paragraphs (C)(1) through (C)(3) of this section for closed-vent systems and control devices. The records specified in paragraph (C)(1) of this section shall be retained for the life of the equipment. The records specified in paragraphs (C)(2) and (C)(3) of this section shall be retained for 5 years. 1. The following design specifications and performance demonstrations: a. Detailed schematics, design specifications of the control device, and piping and instrumentation diagrams. b. The dates and descriptions of any changes in the design specifications. c. The flare design (i.e., steam-assisted, air-assisted, or non-assisted) and the results of the compliance demonstration required by §63.11(b). d. A description of the parameter or parameters monitored, as required in	

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
	paragraph (i)(E) of this unit, to ensure that control devices are operated and maintained in conformance with their design and an explanation of why that parameter (or parameters) was selected for the monitoring. 2. Records of operation of closed-vent systems and control devices, as specified in paragraphs (C)(2)(a) through (C)(2)(c) of this section. a. Dates and durations when the closed-vent systems and control devices required in sections 2 through 5 of this unit are not operated as designed as indicated by the monitored parameters, including periods when a flare pilot light system does not have a flame. b. Dates and durations during which the monitoring system or monitoring device is inoperative. c. Dates and durations of start-ups and shutdowns of control devices required in sections 2 through 5 of this unit. 3. Records of inspections of closed-vent systems, as specified in paragraphs (C)(3)(a) and (C)(3)(b) of this section. a. For each inspection conducted in accordance with the provisions of paragraphs (iii)(A)(1) and (2) of this section during which no leaks were detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected. b. For each inspection conducted in accordance with the provisions of paragraphs (iii)(A)(1) and (2) of this	

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
	section during which leaks were detected, the information specified in section 11(C) of this unit shall be recorded. *[Reference: 40 CFR 63, Subpart H, §63.181(g) dated 7/1/00]*	
11. **Connectors in Gas/vapor Service and in Light Liquid Service.** i. Emission Limitation: The Owner/Operator shall monitor all connectors in gas/vapor service and in light liquid service according to the provisions of this section. *[Reference: 40 CFR 63, Subpart H, §63.174(a) dated 7/1/00]*	ii. Compliance Method: Compliance with this emission standard and these operation limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00]* iii. Monitoring/Testing: A. The Owner/Operator shall monitor all connectors in gas/vapor and light liquid service, except as provided in paragraphs (E) through (G) of this section, at the intervals specified in paragraph (B) of this section. 1. The connectors shall be monitored to detect leaks by the method specified in 40 CFR 63, Subpart H, §63.180(b) dated 7/1/00. 2. If an instrument reading greater than or equal to 500 parts per million is measured, a leak is detected. *[Reference: 40 CFR 63, Subpart H, §63.174(a) dated 7/1/00]* B. The Owner/Operator shall monitor for leaks at the frequencies specified in paragraphs (B)(1) through (B)(5) of this section except as provided in paragraph (C)(2) of this section. 1. Once per year (i.e., 12-month period), if the percent leaking connectors in the process unit was 0.5 percent or greater during the last required annual or biennial monitoring period. 2. Once every 2 years, if the percent leaking connectors was less than 0.5 percent during the last required monitoring period. The Owner/Operator may comply with this	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: *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]* A. [RESERVED]. B. Other reporting requirements are covered under Condition 3 - Table 1(bb)(12). vi. Compliance 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]*

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
	paragraph by monitoring at least 40 percent of the connectors in the first year and the remainder of the connectors in the second year. The percent leaking connectors will be calculated for the total of all monitoring performed during the 2-year period. 3. If the Owner/Operator of a process unit in a biennial leak detection and repair program calculates less than 0.5 percent leaking connectors from the 2-year monitoring period, the Owner/Operator may monitor the connectors one time every 4 years. The Owner/Operator may comply with the requirements of this paragraph by monitoring at least 20 percent of the connectors each year until all connectors have been monitored within 4 years. 4. If a process unit complying with the requirements of paragraph (B) of this section using a 4-year monitoring interval program has greater than or equal to 0.5 percent but less than 1 percent leaking connectors, the Owner/Operator shall increase the monitoring frequency to one time every 2 years. The Owner/Operator may comply with the requirements of this paragraph by monitoring at least 40 percent of the connectors in the first year and the remainder of the connectors in the second year. The Owner/Operator may again elect to use the provisions of paragraph (B)(3) of this section when the percent leaking connectors decreases to less than 0.5 percent. 5. If a process unit complying with requirements of paragraph (B)(3) of this section using a 4-year monitoring interval program has 1 percent or greater leaking connectors, the Owner/Operator shall increase the monitoring	

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
	frequency to one time per year. The Owner/Operator may again elect to use the provisions of paragraph (B)(3) of this section when the percent leaking connectors decreases to less than 0.5 percent. *[Reference: 40 CFR 63, Subpart H, §63.174(b) dated 7/1/00]* C. Other Monitoring: 1. Opened connectors: a. Except as provided in paragraph (C)(1)(b) of this section, each connector that has been opened or has otherwise had the seal broken shall be monitored for leaks when it is reconnected or within the first 3 months after being returned to organic hazardous air pollutants service. If the monitoring detects a leak, it shall be repaired according to the provisions of paragraph (D) of this section, unless it is determined to be nonrepairable, in which case it is counted as a nonrepairable connector for the purposes of paragraph (H) of this section. b. As an alternative to the requirements in paragraph (C)(1)(a) of this section, an Owner/Operator may choose not to monitor connectors that have been opened or otherwise had the seal broken. In this case, the Owner/Operator may not count nonrepairable connectors for the purposes of paragraph (H) of this section. The Owner/Operator shall calculate the percent leaking connectors for the monitoring periods described in paragraph (B) of this section, by setting the nonrepairable component, C_{AN}, in the equation in paragraph (H)(2) of this section to zero for all monitoring periods. c. An Owner/Operator may switch	

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
	alternatives described in paragraphs (C)(1)(a) and (b) of this section at the end of the current monitoring period he is in, provided that it is reported as required in Section 12 of this unit and begin the new alternative in annual monitoring. The initial monitoring in the new alternative shall be completed no later than 12 months after reporting the switch. 2. As an alternative to the requirements of paragraph (B) of this section, each screwed connector 2 inches or less in nominal inside diameter installed in a process unit before December 31, 1992, may: a. Comply with the requirements of Section 8 of this unit, and b. Be monitored for leaks within the first 3 months after being returned to organic hazardous air pollutants service after having been opened or otherwise had the seal broken. If that monitoring detects a leak, it shall be repaired according to the provisions of paragraph (D) of this section. *[Reference: 40 CFR 63, Subpart H, §63.174(c) dated 7/1/00]* D. 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 paragraph (F) of this section and in Section 9 of this unit. A first attempt at repair shall be made no later than 5 calendar days after the leak is detected. *[Reference: 40 CFR 63, Subpart H, §63.174(d) dated 7/1/00]* E. Any connector that is designated as an unsafe-to-monitor, difficult to monitor, or unsafe to inspect connector is exempt from the	

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
	requirements of paragraph (A) of this section if: 1. The Owner/Operator determines that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with paragraphs (A) through (D) of this section; and 2. The Owner/Operator has a written plan that requires monitoring of the connector as frequently as practicable during safe to monitor periods, but not more frequently than the periodic schedule otherwise applicable. *[Reference: 40 CFR 63, Subpart H, §63.174(f) dated 7/1/00]* F. Any connector that is designated as an unsafe-to-repair connector is exempt from the requirements of paragraphs (A) and (D) of this section if: 1. The Owner/Operator determines that repair personnel would be exposed to an immediate danger as a consequence of complying with paragraph (D) of this section; and 2. The connector will be repaired before the end of the next scheduled process unit shutdown. *[Reference: 40 CFR 63, Subpart H, §63.174(g) dated 7/1/00]* G. Inaccessible/Ceramic connectors 1. Any connector that is inaccessible or is ceramic or ceramic-lined (e.g., porcelain, glass, or glass-lined), is exempt from the monitoring requirements of paragraphs (A) and (D) of this section and from the recordkeeping and reporting requirements of Section 12 of this unit. An inaccessible connector is one that is: a. Buried;	

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
	b. Insulated in a manner that prevents access to the connector by a monitor probe; c. Obstructed by equipment or piping that prevents access to the connector by a monitor probe; d. Unable to be reached from a wheeled scissor-lift or hydraulic-type scaffold which would allow access to connectors up to 7.6 meters (25 feet) above the ground; e. Inaccessible because it would require elevating the monitoring personnel more than 2 meters above a permanent support surface or would require the erection of scaffold; or f. Not able to be accessed at any time in a safe manner to perform monitoring. Unsafe access includes, but is not limited to, the use of a wheeled scissor-lift on unstable or uneven terrain, the use of a motorized man-lift basket in areas where an ignition potential exists, or access would require near proximity to hazards such as electrical lines, or would risk damage to equipment. 2. If any inaccessible or ceramic or ceramic-lined connector is observed by visual, audible, olfactory, or other means to be leaking, the leak shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in Section 9 of this unit and paragraph (F) of this section. 3. A first attempt at repair shall be made no later than 5 calendar days after the leak is detected.	

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
	[Reference: 40 CFR 63, Subpart H, §63.174(h) dated 7/1/00] H. For use in determining the monitoring frequency, subsequent to the first monitoring period for connectors as specified in paragraph (B) of this section, the percent leaking connectors shall be calculated using the following equation: $\%C_L = [(C_L - C_{AN})/(C_t + C_C)] \times 100$ where: $\%C_L$= Percent leaking connectors as determined through periodic monitoring required in paragraphs (A) and (B) of this section. C_L= Number of connectors, including nonrepairables, measured at 500 parts per million or greater, by the method specified in 40 CFR 63, Subpart H, §63.180(b) dated 7/1/00. C_{AN}= Number of allowable nonrepairable connectors, as determined by monitoring required in paragraphs (B)(3) and (C) of this section, not to exceed 2 percent of the total connector population, C_t. C_t= Total number of monitored connectors, including nonrepairables, in the process unit. C_C= Optional credit for removed connectors = 0.67 x net (i.e., total removed-total added) number of connectors in organic hazardous air pollutants service removed from the process unit after October 24, 1994. If credits are not taken, then C_C= 0. *[Reference: 40 CFR 63, Subpart H, §63.174(i) dated 7/1/00]*	

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
	I. Optional credit for removed connectors. If an Owner/Operator eliminates a connector subject to monitoring under paragraph (B) of this section, the Owner/Operator may receive credit for elimination of the connector, as described in paragraph (H) of this section, provided the requirements in paragraphs (I)(1) through (I)(4) are met. 1. The connector was welded after December 31, 1992. 2. The integrity of the weld is demonstrated by monitoring it according to the procedures in 40 CFR 63, Subpart H, §63.180(b) or by testing using X-ray, acoustic monitoring, hydrotesting, or other applicable method. 3. Welds created after December 31, 1992 but before October 24, 1994 were monitored or tested by January 24, 1995. 4. Welds created after December 31, 1994 are monitored or tested within 3 months after being welded. 5. If an inadequate weld is found or the connector is not welded completely around the circumference, the connector is not considered a welded connector and is therefore not exempt from the provisions of this subpart. *[Reference: 40 CFR 63, Subpart H, §63.174(j) dated 7/1/00]* J. When each leak is detected the following requirements apply: 1. A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment. 2. The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and no	

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
	leak has been detected during the follow-up monitoring. If the Owner/Operator elects to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in and no leak is detected during that monitoring. 3. The identification which has been placed on equipment determined to have a leak, except for a valve or for a connector that is subject to the provisions of Section 11(iii)(C)(1)(a), may be removed after it is repaired. *[Reference: 40 CFR 63, Subpart H, §63.162(f) dated 7/1/00]* iv. Recordkeeping: 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]* A. All records and information required by this section shall be maintained in a manner that can be readily accessed at the plant site. *[Reference: 40 CFR 63, Subpart H, §63.181(a) dated 7/1/00]* B. The following information pertaining to all equipment in each process unit subject sections 2 through 11 shall be recorded: 1. A schedule for monitoring connectors subject to the provisions of paragraph 7(iii)(B) of this section. 2. Identification of screwed connectors subject to the requirements of paragraph (iii)(C)(2) of this section. Identification can be by area or grouping as long as the total number within each group or area is recorded.	

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
	3. The following information pertaining to all connectors subject to the provisions of paragraphs (iii)(E) and (F) of this section shall be recorded: a. Identification of equipment designated as unsafe to monitor, difficult to monitor, or unsafe to inspect and the plan for monitoring or inspecting this equipment. b. A list of identification numbers for the equipment that is designated as difficult to monitor, an explanation of why the equipment is difficult to monitor, and the planned schedule for monitoring this equipment. c. A list of identification numbers for connectors that are designated as unsafe to repair and an explanation why the connector is unsafe to repair. 4. A list of connectors removed from and added to the process unit, as described in (iii)(H) of this section, and documentation of the integrity of the weld for any removed connectors, as required in paragraph (iii)(J) of this section. This is not required unless the net credits for removed connectors are expected to be used. *[Reference: 40 CFR 63, Subpart H, §63.181(b) dated 7/1/00]* C. When a leak is detected, information shall be recorded and kept for 5 years as required by section 12(iv)(C) of this unit. *[Reference: 40 CFR 63, Subpart H, §63.181(d) dated 7/1/00]*	
12. **General Recordkeeping and Reporting Requirements.** i. Operational Limitations: None.	ii. Compliance Method: Compliance with this emission standard and these operation limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements. *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00]*	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: *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]*

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
	iii. Monitoring/Testing: None. iv. Recordkeeping: 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]* A. All records and information required by this unit shall be maintained in a manner that can be readily accessed at the plant site. This could include physically locating the records at the plant site or accessing the records from a central location by computer at the plant site. *[Reference: 40 CFR 63, Subpart H, §63.181(a) dated 7/1/00]* B. The following information pertaining to all equipment in each process unit subject to the requirements in Sections 1 - 11 of this unit shall be recorded: 1. A list of identification numbers for equipment (except connectors exempt from monitoring and recordkeeping identified in Section 11 and instrumentation systems) subject to the requirements of this unit. Connectors need not be individually identified if all connectors in a designated area or length of pipe subject to the provisions of this subpart are identified as a group, and the number of connectors subject is indicated. 2. Physical tagging of the equipment to indicate that it is in organic HAP service is not required. Equipment subject to the provisions of this subpart may be identified on a plant site plan, in log entries, or by other appropriate methods.	A. [RESERVED]. B. The Owner/Operator shall submit Periodic Reports containing the information in paragraphs (C) and (D) of this section shall be submitted semiannually by January 19 and July 19 of each year. Each periodic report shall cover the pervious 6 month period of May 1 - November 31 and December 1 - April 30 respectively. *[Reference: 40 CFR 63, Subpart H, §63.182(d)(1) dated 7/1/00]* C. For each process unit complying with the provisions of sections 2 through 11 of this unit, the summary information listed in paragraphs (1) through (12) of this section for each monitoring period during the 6-month period. 1. The number of valves for which leaks were detected as described in section 7(iii)(A) of this unit, the percent leakers, and the total number of valves monitored; 2. The number of valves for which leaks were not repaired as required in section 7(iii)(D) of this unit, identifying the number of those that are determined nonrepairable; 3. The number of pumps for which leaks were detected as described in section 2(iii)(A) of this unit, the percent leakers, and the total number of pumps monitored; 4. The number of pumps for which leaks were not repaired as required in section 2(iii)(B) of this unit; 5. The number of compressors for which leaks were detected as described in section 3(iii)(C) of this unit; 6. The number of compressors for which

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
	[Reference: 40 CFR 63, Subpart H, §63.181(b) dated 7/1/00] C. When each leak is detected, the following information shall be recorded and kept for 5 years: 1. The instrument and the equipment identification number and the operator name, initials, or identification number. 2. The date the leak was detected and the date of first attempt to repair the leak. 3. The date of successful repair of the leak. 4. Maximum instrument reading measured by Method 21 of 40 CFR part 60, appendix A dated 7/1/00, after it is successfully repaired or determined to be nonrepairable. 5. "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak. a. The Owner/Operator may develop a written procedure that identifies the conditions that justify a delay of repair. The written procedures may be included as part of the startup/shutdown/malfunction plan, required by Section 1 of this unit, for the source or may be part of a separate document that is maintained at the plant site. In such cases, reasons for delay of repair may be documented by citing the relevant sections of the written procedure. b. If delay of repair was caused by depletion of stocked parts, there must be documentation that the spare parts were sufficiently stocked on-site before depletion and the reason for depletion. 6. Dates of process unit shutdowns that occur	leaks were not repaired as required in section 3(iii)(D) of this unit; 7. The number of connectors for which leaks were detected as described in section 11(iii)(A) of this unit, the percent of connectors leaking, and the total number of connectors monitored; 8. The number of connectors for which leaks were not repaired as required in section 11(iii)(D) of this unit, identifying the number of those that are determined nonrepairable; 9. The facts that explain any delay of repairs and, where appropriate, why a process unit shutdown was technically infeasible. 10. The results of all monitoring to show compliance with sections 3(iii)(F), 4(i)(A) and 10(iii)(A) of this unit conducted within the semiannual reporting period. 11. If applicable, the initiation of a monthly monitoring program under section 7(B)(1)(a of this unit, or a quality improvement program under 40 CFR 63, Subpart H, §63.176 dated 7/1/00. 12. If applicable, notification of a change in connector monitoring alternatives as described in section 11(iii)(C)(1) of this unit. *[Reference: 40 CFR 63, Subpart H, §63.182(d) dated 7/1/2000]* C. Any revisions to items reported in an earlier Notification of Compliance Status, as listed in paragraphs (1) through (4) of this section, if the method of compliance has changed since the last report. 1. Process unit identification. 2. Number of each equipment type (e.g., valves, pumps) excluding equipment in

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
	while the equipment is unrepaired. 7. Opened connectors: a. Identification, either by list, location (area or grouping), or tagging of connectors that have been opened or otherwise had the seal broken since the last monitoring period required in section 11(iii)(B) of this unit, as described in section 11(iii)(C)(1), unless the Owner/Operator elects to comply with the provisions of section 11 (iii)(C)(2). b. The date and results of monitoring as required in section 11(iii)(C) of this unit. If identification of connectors that have been opened or otherwise had the seal broken is made by location under paragraph (C)(7)(a) of this section, then all connectors within the designated location shall be monitored. 8. Copies of the periodic reports as specified in paragraph (v) of this section, if records are not maintained on a computerized database capable of generating summary reports from the records. *[Reference: 40 CFR 63, Subpart H, §63.181(d) dated 7/1/00]*	vacuum service. 3. Method of compliance with the standard (for example, "monthly leak detection and repair" or "equipped with dual mechanical seals"). *[Reference: 40 CFR 63, Subpart H, §63.182(d)(4) dated 7/1/2000]* vi. Compliance 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]*
bc. Emission Unit 32: Process heater 32-H-101; Emission Point 32-1.		
1. Particulate Matter. i. Emission Standard: The Owner/Operator shall not cause or allow the emission of particulate matter in excess of 0.3 lb/mmBTU heat input, maximum 2-hour average. *[Reference: 7 **DE Admin Code** 1104 Section 2.1 dated 2/1/81]*	iii. Compliance Method: Compliance with this emission standard and these operation limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements and the following: *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00* A. Compliance with the Emission Standard is based	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]* vii. Certification Requirement: That required by Condition 3(c)(3) of this permit. *[Reference: 7 **DE Admin Code** 1130*

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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
ii. Operational Limitations: A. The Owner/Operator shall only combust desulfurized RFG as the primary fuel. *[Reference 7 **DE Admin Code** 1130 Section 6.1.3.2 dated 12/11/00]* B. In addition, the Owner/Operator may combust vented vapors from the Alky Merox and Poly Merox processes and benzene vapors displaced from storage and loading operations as described under Section ba. *[Reference: 40 CFR 63.113 and 40 CFR 63.116(e) both dated 1/17/1997]*	on compliance with the NSPS limit of 0.1 grain/dscf limit of H_2S in RFG. B. Compliance with the Operational Limitation A shall be demonstrated by record keeping. C. Compliance with Operational Limitation B shall be based on introducing the process gas into the flame zone of 32-H-101, except that when benzene vapors are controlled by this process heater the Owner/Operator may alternatively pre mix the benzene waste with the fuel as prescribed in Operational Limitation ba.1.ii.B. iv. Monitoring/Testing: The Owner/Operator shall continuously monitor the H_2S content in the RFG. *[Reference 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]* v. Record Keeping: In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Owner/Operator shall: *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]* A. The Owner/Operator shall maintain fuel usage records for each unit. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]*	*Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]*
2. **Sulfur Dioxide (SO_2).** i. Emission Standards: A. [RESERVED] B. The Owner/Operator shall not burn in any fuel gas combustion device any fuel gas including process off-gases from Alky Merox, Poly Merox, and benzene vapors that contains H_2S in excess of 0.1 grain/DSCF on a three hour rolling average. *[Reference: 7 **DE Admin Code** 1120, Section 11 dated 11/27/85 and 40 CFR 60.104(a)(1) dated 10/2/90 and Paragraph 24 and Attachment 2 of Civil Action No. H-01-0978, Heaters and Boilers Consent Decree between the USA, Plaintiff and the States of Delaware and Louisiana, and the Northwest*	iii. Compliance Method: Compliance with this emission standard and these operation limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements and the following: *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00]* A Continuous Emissions Monitoring System (CEMS) shall be used to demonstrate compliance with Emission Standard (B) for the primary fuel. B. Compliance with Emission Standard (B) shall be based on monitoring. **C. [RESERVED]**	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]* 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]*

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
Air Pollution Authority of the State of Washington, Plaintiff-Interveners versus Motiva Enterprises LLC, Defendant, entered on March 21, 2001 and7 ***DE Admin. Code*** *1108 Section 2.1 dated 12/8/1983].*	iv. Monitoring/Testing: A. The Owner/Operator shall continuously monitor and record the concentration (dry basis) of H_2S in RFG before it is combusted in any fuel burning device. The monitoring instrument shall be located downstream of all process steps that increase the concentration of H_2S in RFG prior to its being combusted in any fuel burning device. The H_2S CEMS shall conform to the requirements of Performance Specification 7 of 40 CFR 60, Appendix "B" and comply with the Quality assurance requirements of 40 CFR 60, Appendix "F". The relative accuracy evaluation shall be conducted using Method 11 of 40 CFR 60, Appendix "A." *[Reference: 7* ***DE Admin Code*** *1130 Section 6.1.3.1.2 dated 12/11/00]* B. The H_2S content of the process off-gasses shall be monitored according to the approved Alternate Monitoring Program. *[Reference: Letter from Motiva dated 9/12/2001 to Judy Katz, Air Protection Division Director, US EPA Region 3].* v. Recordkeeping: 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]* A. The Owner/Operator shall keep records of all H_2S CEMS calibration, maintenance, quarterly cylinder gas audits and annual relative accuracy test audits for at least 5 years. *[Reference Reference: 7* ***DE Admin Code*** *1130 Section 6.1.3.1.1 dated 12/11/00]* B. The Owner/Operator shall maintain records of the monitoring data required by the alternate Monitoring Plans. *[Reference: Letter from Motiva dated 9/12/2001 to Judy Katz, Air Protection Division Director, US EPA Region 3].*	

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
3. **Nitrogen Oxides (NO_x).** i. Emission Standard: A. NO_x emissions shall not exceed 0.20 lb/mmBtu. *[Reference: **APC-81/0832(A1)** Condition No. 9]* B. [RESERVED]	ii. Compliance Method: Compliance with this emission standard and these operation limitations will be demonstrated by adherence to the appropriate monitoring, testing, QA/QC, and recordkeeping requirements and the following: *[Reference: 7 **DE Admin. Code** 1130 Section 6.1.7.3 dated 12/11/00* A. Compliance with the emission standard (A) shall be demonstrated by conducting an annual stack test. *[Reference: **APC-81/0832(A1)** Condition No. 9]* B. [RESERVED] iii. Monitoring & Testing: The annual stack test shall conform to the procedures described in Reference Method 7 in 40 CFR 60, Appendix "A". *[Reference 7 **DE Admin Code** 1130 Section 6.1.3.2 dated 12/11/00]* iv. Recordkeeping: 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]* A. All stack test data and results. B. [RESERVED] C. [RESERVED] *[Reference 7 **DE Admin Code** 1130 Section 61.3.2 dated 12/11/00]*	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]* 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]*
4. **Visible Emissions Standard:** i. 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 percent 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]*	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 6.1.7.3 dated 12/11/00]* iii. Monitoring/Testing: A. Visual observations in accordance with paragraph (C) below shall be conducted within	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]* 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]*

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
	one (1) week of the annual tune-up. *[Reference 7 **DE Admin Code** 1130 Section 6.1.3 dated 12/11/00]* B. 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 (C) below. 2. If no visible emissions are observed, no further action is required. *[Reference Reg. No. 30 Section 6(a)(3) dated 12/11/00]* C. In accordance with Subsection 1.5.3 of 7 **DE Admin Code** 1120, 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]* iv. 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]* A. Observation records shall be maintained and made available to the Department upon	

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
	request. B. Records of all maintenance performed on these units shall be maintained and made available to the Department upon request. *[Reference 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]*	
c. **Emission Unit 33**: Selective Hydrogenation Unit and Process Heaters 33-H-1 and 33-H-2; Emissions Points 33-1 and 33-2		
1. **Particulate Matter.** i. Emission Standard: The Owner/Operator shall not cause or allow the emission of particulate matter in excess of 0.3 lb/mmBTU heat input, maximum 2-hour average. *[Reference: 7 **DE Admin Code** 1104 Section 2.1 dated 2/1/81]* ii. Operational Limitation: The Owner/Operator shall only combust desulfurized RFG or natural gas in units 33-H-1 and 33-H-2. *[Reference 7 **DE Admin Code** 1130 Section 6.1.3.2 dated 12/11/00]*	iii. Compliance Method: *[Reference 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]* A. Compliance with the emission standard is based on compliance with the NSPS limit of 0.1 grain/dscf limit of H_2S in RFG. B. Compliance with the operational limitation shall be demonstrated by record keeping. iv. Monitoring/Testing: The Owner/Operator shall continuously monitor the H_2S content in the RFG. *[Reference 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]* v. Record Keeping: In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Owner/Operator shall: *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]* A. The Owner/Operator shall maintain records of fuel usage in each unit. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]*	vi. 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]* 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]*
2. **Sulfur Dioxide (SO_2).** i. Emission Standard: [RESERVED] ii. Operational Limitation: The Owner/Operator shall not burn in any fuel gas combustion device any fuel gas that contains more H_2S in excess of 0.1 grain/DSCF on a three hour rolling average. *[Reference 7 **DE Admin Code** 1120, Section 11 dated 11/27/85*	iii. Compliance Method: *[Reference 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]* A. A Continuous Emissions Monitoring System (CEMS) shall be used to demonstrate compliance with the operational limitation. B. [RESERVED] iv. Monitoring/Testing: The Owner/Operator shall continuously monitor and record the concentration (dry basis) of H_2S in RFG before it is combusted in any fuel burning device.	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]* 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]*

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
and 40 CFR 60.104(a)(1) dated 10/2/90 and 7 ***DE Admin. Code*** *1108 Section 2.1 dated 12/8/1983]*	The monitoring instrument shall be located downstream of all process steps that increase the concentration of H_2S in RFG prior to its being combusted in any fuel burning device. The H_2S CEMS shall conform to the requirements of Performance Specification 7 of 40 CFR 60, Appendix "B" and comply with the Quality assurance requirements of 40 CFR 60, Appendix "F". The relative accuracy evaluation shall be conducted using Method 11 of 40 CFR 60, Appendix "A." *[Reference 7* ***DE Admin Code*** *1130 Section 6.1.3.1.2 dated 12/11/00]* v. Recordkeeping: 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]* A. The Owner/Operator shall keep records of all H_2S CEMS calibration, maintenance, quarterly cylinder gas audits and annual relative accuracy test audits for at least 5 years.	
3. **Nitrogen Oxides (NO_x).** i. Operational Limitation: For 33-H-2: NO_x emissions shall not exceed those achieved through an annual tune up performed by qualified personnel. *[Reference 7* ***DE Admin Code*** *1112, Section 3.3.2 dated 11/24/93]*	ii. Compliance Method: *[Reference 7* ***DE Admin Code*** *1130 Section 6.1.3.1.2 dated 12/11/00]* For 33-H-2: Compliance demonstration with the Operational Limitation shall be by conducting an annual tune up of each unit by qualified personnel. iii. Monitoring & Testing: For Unit 33-H-2: None in addition to the annual tune up. *[Reference 7* ***DE Admin Code*** *1130 Section 6.1.3.1.2 dated 12/11/00]* iv. Recordkeeping: 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]* A. A log of all tune ups performed.	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]* 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]*

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
	B. Documentation of qualifications of personnel responsible for conducting the tune up.	
4. **Visible Emissions Standard:** 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 percent 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]*	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 dated 12/11/00]* iii. Monitoring/Testing: A. Visual observations in accordance with paragraph (C) below shall be conducted within one (1) week of the annual tune-up. *[Reference 7 **DE Admin Code** 1130 Section 6.1.3 dated 12/11/00]* B. 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 (C) below. 2. If no visible emissions are observed, no further action is required. *[Reference 7 **DE Admin Code** 1130 Section 6.1.3 dated 12/11/00]* C. In accordance with Subsection 1.5(c) of Regulation No. 20, 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	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]* 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]*

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
	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]* iv. 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]* A. Observation records shall be maintained and made available to the Department upon request. B. Records of all maintenance performed on these units shall be maintained and made available to the Department upon request. *[Reference Reg. No.30, Section 6(a)(3)(i)(B) dated 12/11/00]*	
d. **Emissions Unit 34**: Olefins Plant and Process Heater 134-H-101; Emission Point 34-1.		
1. **Particulate Matter.** i. Emission Standard: The Owner/Operator shall not cause or allow the emission of particulate matter in excess of 0.3 lb/mmBTU heat input, maximum 2-hour average. *[Reference 7 **DE Admin Code** 1104 Section 2.1 dated 2/1/81]* ii. Operational Limitation: The Owner/Operator shall only combust desulfurized RFG or natural gas in unit 134-H-101. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]*	iii. Compliance Method: *[Reference 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]* A. Compliance with the emission standard is based on compliance with the NSPS limit of 0.1 grain/dscf limit of H_2S in RFG. B. Compliance with the operational limitation shall be demonstrated by record keeping. iv. Monitoring/Testing: *[Reference 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]* The Owner/Operator shall continuously monitor the H_2S content in the RFG. v. Record Keeping: In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Owner/Operator shall: *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]*	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]* 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]*

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
	A. The Owner/Operator shall maintain fuel usage records of Unit 134-H-101. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]*	
2. **Sulfur Dioxide (SO_2).** i. Emission Standards: [RESERVED] ii. Operational Limitation: The Owner/Operator shall not burn in any fuel gas combustion device any fuel gas that contains H_2S in excess of 0.1 grain/DSCF on a three hour rolling average. *[Reference 7 **DE Admin Code** 1120, Section 11 dated 11/27/85 and 40 CFR 60.104(a)(1) dated 10/2/90 and 7 **DE Admin. Code** 1108 Section 2.1 dated 12/8/1983]*	iii. Compliance Method: *[Reference: Regulation No. 30 Section 6(a)(3)(i)(B) dated 12/11/00]* A. A Continuous Emissions Monitoring System (CEMS) for H_2S shall be used to demonstrate compliance with the operational limitation. B. [RESERVED] iv. Monitoring/Testing: The Owner/Operator shall continuously monitor and record the concentration (dry basis) of H_2S in RFG before it is combusted in any fuel burning device. The monitoring instrument shall be located downstream of all process steps that increase the concentration of H_2S in RFG prior to its being combusted in any fuel burning device. The H_2S CEMS shall conform to the requirements of Performance Specification 7 of 40 CFR 60, Appendix "B" and comply with the Quality assurance requirements of 40 CFR 60, Appendix "F". The relative accuracy evaluation shall be conducted using Method 11 of 40 CFR 60, Appendix "A." *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]* v. Recordkeeping: 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]* The Owner/Operator shall keep records of all H_2S CEMS calibration, maintenance, quarterly cylinder gas audits and annual relative accuracy test audits for at least five (5) years.	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]* 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]*
3. **Nitrogen Oxides (NO_x).** i. Operational Standard:	ii. Compliance Method: *[Reference Regulation No. 30 Section 6(a)(3)(ii) dated 12/11/00]*	vi. Reporting: That required by Conditions 2(a), 2(b)(9),

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
For 134-H-101: NO_x emissions shall not exceed those achieved through an annual tune up performed by qualified personnel. *[Reference 7 **DE Admin Code** 1112, Section 3.3.2 dated 11/24/1993]*	For 134-H-101: Compliance demonstration with the Operational Standard shall be by conducting an annual tune up of each unit by qualified personnel. iii. Monitoring & Testing: *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]* A. For Unit 134-H-101: None in addition to the annual tune up required by the Operational Standard. B. Conduct a visible emissions evaluation after conclusion of the annual tune up in accordance with Condition 3 - Table 1.db.4. iv. 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]* A. A log of all tune ups performed. B. Documentation of qualifications of personnel responsible for conducting the tune up.	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]* 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]*
4. **Visible Emissions Standard:** i. 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 percent 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]*	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 dated 12/11/00]* iii. Monitoring/Testing: A. Visual observations in accordance with paragraph (C) below shall be conducted within one (1) week of the annual tune-up. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3 dated 12/11/00]* B. 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	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]* 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]*

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
	(C) below. 2. If no visible emissions are observed, no further action is required. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3 dated 12/11/00]* C. In accordance with Subsection 1.5(c) of Regulation No. 20, 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(c) dated 12/7/88]* iv. 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]* A. Observation records shall be maintained and made available to the Department upon request. B. Records of all maintenance performed on these units shall be maintained and made available to the Department upon request. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]*	
e. <u>Emissions Unit 36</u>: Hydrocracker Unit, Process Heaters 36-H-1, 36-H-2 and 36-H-3; Emission Points 36-1 and 36-2.		
1. **Particulate Matter.** i. Emission Standard: The Owner/Operator shall not cause or allow	iii. Compliance Method: *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]* A. Compliance with the Emission Standard is	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.

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
the emission of particulate matter in excess of 0.3 lb/mmBTU heat input, maximum 2-hour average. *[Reference: 7 **DE Admin Code** 1104 Section 2.1 dated 2/1/81]* ii. Operational Limitation: The Owner/Operator shall only combust desulfurized RFG or natural gas in Units 36-H-1, 36-H-2 and 36-H-3. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]*	based on compliance with the NSPS limit of 0.1 grain/dscf limit of H_2S in RFG. B. Compliance with the Operational Limitation shall be demonstrated by record keeping. iv. Monitoring/Testing: The Owner/Operator shall continuously monitor the H_2S content in the RFG. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]* 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]* A. The Owner/Operator shall maintain fuel usage records of Units 36-H-1, 36-H-2 and 36-H-3. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]*	*[Reference :7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]* 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]*
2. **Sulfur Dioxide (SO_2).** i. Emission Standard: [RESERVED] ii. Operational Limitation: The Owner/Operator shall not burn in any fuel gas combustion device any fuel gas that contains more H_2S in excess of 0.1 grain/DSCF on a three hour rolling average. *[Reference Regulation No. 20, Section 11 dated 11/27/85 and 40 CFR 60.104(a)(1) dated XXXX and 7 **DE Admin. Code** 1108 Section 2.1 dated 12/8/1983]*	iii. Compliance Method: *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]* A. A Continuous Emissions Monitoring System (CEMS) shall be used to demonstrate compliance with the operational limitation. B. [RESERVED] iv. Monitoring/Testing: The Owner/Operator shall continuously monitor and record the concentration (dry basis) of H_2S in RFG before it is combusted in any fuel burning device. The monitoring instrument shall be located downstream of all process steps that increase the concentration of H_2S in RFG prior to its being combusted in any fuel burning device. The H_2S CEMS shall conform to the requirements of Performance Specification 7 of 40 CFR 60, Appendix "B" and comply with the Quality assurance requirements of 40 CFR 60, Appendix "F". The relative accuracy evaluation shall be conducted using Method 11 of 40 CFR 60, Appendix "A." *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]*	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]* 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]*

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
	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]* A. The Owner/Operator shall keep records of all H_2S CEMS calibration, maintenance, quarterly cylinder gas audits and annual relative accuracy test audits for at least 5 years.	
3. **Nitrogen Oxides (NO_x).** i. Operational Limitation: For Units 36-H-1, 36-H-2 and 36-H-3: NO_x emissions shall not exceed those achieved through an annual tune up performed by qualified personnel. *[Reference: 7 **DE Admin Code** 1112, Section 3.3.2 dated 11/24/1993]*	ii. Compliance Method: For Units 36-H-1, 36-H-2 and 36-H-3: Compliance demonstration with the Operational Limitation shall be by conducting an annual tune up of each unit by qualified personnel. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]* iii. Monitoring & Testing: *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.2 dated 12/11/00]* A. For Units 36-H-1, 36-H-2 and 36-H-3: None in addition to the annual tune up. B. Conduct a visible emissions evaluation after conclusion of the annual tune up in accordance with Condition 3 - Table 1.e.4. iv. 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]* A. A log of all tune ups performed B. Documentation of qualifications of personnel responsible for conducting the tune up.	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]* 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]*
4. **Visible Emissions Standard:** i. 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 percent opacity for an aggregate of more than 3 minutes in any 1 hour or more than 15	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]* iii. Monitoring/Testing:	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]* vi. Certification Requirement: That required by Condition 3(c)(3) of this

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
minutes in any 24 hour period. *[Reference 7 **DE Admin Code** 1114, Section 2.1 dated 7/17/84]*	A. Visual observations in accordance with paragraph (C) below shall be conducted within one (1) week of the annual tune-up. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3 dated 12/11/00]* B. 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 (C) below. 2. If no visible emissions are observed, no further action is required. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3 dated 12/11/00]* C. In accordance with Subsection 1.5(c) of Regulation No. 20, 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 Reg. No. 20, Section 1.5(c) dated 12/7/88]* iv. 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]* A. Observation records shall be maintained and	permit. *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]*

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
	made available to the Department upon request. B. Records of all maintenance performed on these units shall be maintained and made available to the Department upon request. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]*	
fa. <u>Emissions Unit 40</u>: 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 Kb: Tanks 044-TF-112, 050-TF-78, 065-TF-50, 73-TF-78. (These tanks are Group 1 MACT tanks that are 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))		
1. **Volatile Organic Compounds (VOC).** i. Equipment Standards: A. Each external floating roof shall be equipped with a closure device between the wall of the storage vessel and the roof edge. The closure device is to consist of two seals, one above the other. The lower seal is referred to as the primary seal, and the upper seal is referred to as the secondary seal. *[Reference: 40 CFR 60.112b(a)(2) dated 10/8/97]* 1. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in Sec. 60.113b(b)(4), the seal shall completely cover the annular space between the edge of the floating roof and tank wall. *[Reference: 40 CFR 60.112b(a)(2)(i) dated 10/8/97 and 113b(b)(4)(ii)(A) dated 8/11/89]* 2. The secondary seal shall be installed above the primary seal and shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in Sec. 60.113b(b)(4). *[Reference: 40*	iii. Compliance Methodology: 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]* iv. Monitoring/Testing: In addition to the requirements of Conditions 3(b)(1)(ii) of this permit, the Company shall: A. Determine the gap areas and maximum gap widths, between the primary seal and the wall of the storage vessel and between the secondary seal and the wall of the storage vessel according to the following frequency. 1. Measurements of gaps between the tank wall and the primary seal (seal gaps) shall be performed during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. 2. Measurements of gaps between the tank wall and the secondary seal shall be performed within 60 days of the initial fill with VOL and at least once per year thereafter. *[Reference: 40 CFR Part 60, Subpart Kb, §60.113b(b)(1)(i) dated 8/11/89 and 40 CFR*	vi. 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: *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]* A. For all inspections required by §60.113b(b)(6), the Owner/Operator shall provide a 15 day telephone notification to allow the administrator to afford the opportunity to inspect the storage vessel prior to refilling. *[Reference Regulation No. 30 Section 6(a)(3)(ii) dated 12/11/00 and 40 CFR 63.646(l) dated 2/21/97]* B. Notify the Administrator 30 days in advance of any gap measurements to afford the Administrator the opportunity to have an observer present. *[Reference: 40 CFR 60.113b(b)(4) dated 8/11/89]* B. Periodic Reports Within 60 days of performing the gap measurements required by §60.113b(b)(1), submit a report containing the information required below. A report is not needed if none of the measured gaps or calculated gap areas exceed the limitations. *[Reference : 40 CFR 60.115b(b)(2) dated 4/8/87 and 40 CFR*

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
CFR 60.112b(a)(2)(i) dated 10/8/97] B. The accumulated area of gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal shall not exceed 212 cm^2 per meter of tank diameter, and the width of any portion of any gap shall not exceed 3.81 cm.. *[Reference: 40 CFR 60.113b(b)(4)(i) dated 8/11/1989]* C. One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. *[Reference: 40 CFR 60.113b(b)(4)(i)(A) dated 8/11/1989]*D. D. The accumulated area of gaps between the tank wall and the secondary seal shall not exceed 21.2 cm^2 per meter of tank diameter, and the width of any portion of any gap shall not exceed 1.27 cm. *[Reference: 40 CFR 60.113b(b)(4)(ii)(B) dated 8/11/1989]* 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: 40 CFR 60.113b (b)(4)(i)(B) and (4)(ii)(C) dated 8/11/1989]* ii. Operational Limitations: A. The roofs shall be floating the liquid at all times except during initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently 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)(2)(iii) dated 8/11/1989]*	*63.120(b)(1)(i) dated 1/17/97]* B. Determine gap widths and areas in the primary and secondary seals individually by the following procedures: 1. Measure seal gaps, if any, at one or more floating roof levels when the roof is floating off the roof leg supports. 2. Measure seal gaps around the entire circumference of the tank in each place where a 0.32-cm diameter uniform probe passes freely (without forcing or binding against seal) between the seal and the wall of the storage vessel and measure the circumferential distance of each such location. 3. The total surface area of each gap shall be determined by using probes of various widths to measure accurately the actual distance from the tank wall to the seal and multiplying each such width by its respective circumferential distance. *[Reference: 40 CFR 60.113b(b)(2) dated 8/11/89]* C. Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in paragraph (b)(4) of this Sec. ion. *[Reference: 40 CFR 60.113b(b)(3) dated 8/11/89]* D. Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in (b)(4) (i) and (ii) of this Sec. ion. *[Reference: 40 CFR 60.113b(b)(4) dated 8/11/89]* E. If a failure is detected during the inspections required by Sec. 60.113b(a)(2) or during the seal gap measurements required by Sec. 60.113b(b)(1), and the vessel cannot be	*63.640(n)(8)(vi) dated 5/25/2001]* 1. The date of measurement. 2. The raw data obtained in the measurement. 3. The calculations described in §60.113b(b)(2) and (b)(3). C. Periodic Reports! After each seal gap measurement that detects gaps exceeding the limitation specified in §60.113b(b)(4) submit a report within 30 days of the inspection. The report shall identify the storage vessel and contain the information specified in §60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. *[Reference: 40 CFR 60.115b(b)(4) dated 4/8/87 and 40 CFR 63.640(n)(8)(v) dated 5/25/2001]* D. The Owner/Operator shall submit the reports listed below: *[Reference: 40 CFR 63.654(e) dated 8/18/1998]* 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 3. Other reports as described in 40 CFR 63.654(h). 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. 5. The notification required in 40 CFR 60.113b(b)(6)(11) for tanks subject to the requirements in 40 CFR 60.113b(b)(6). vii. Certification: That required by Condition 3(c)(3) of this

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
B. Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, each opening in the roof is to be equipped with a gasketed cover, seal, or lid that is to be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Automatic bleeder vents 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 roof leg supports. Rim vents are to be set to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Automatic bleeder vents and rim space vents are to be gasketed. Each emergency roof drain is to be provided with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. *[Reference: 40 CFR 60.112b(a)(2)(ii) dated 10/8/97]* C. The tanks shall not store petroleum liquid unless the tanks are operating properly. *[Reference: **APC-80/0869(A5)**]* D. The maximum true vapor pressure of the stored petroleum liquid shall not exceed 11.1 psia. *[Reference: 40 CFR 60.112b(a) dated 8/11/1989 and 40 CFR 63.641 dated 1/17/1997]* E. Any storage vessel that has continuously been out of service since before August 18, 1998, shall not be returned to HAP service until it satisfies the applicable	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 Administrator. *[Reference: 40 CFR 63.649(n)(8)(iii) dated 5/25/2001]* F. Visually inspect the external floating roof, primary and secondary seals, and fittings each time the vessel is emptied and degassed. *[Reference: 40 CFR 60.113b(b)(6) dated 8/11/89]* 1. If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, the Owner/Operator shall repair the items as necessary so that none of the conditions specified in the paragraph exist before filling or refilling the storage vessel with VOL. *[Reference: 40 CFR 60.113b(b)(6)(i) dated 8/11/89]* 2. Comply with the reporting requirements specified in paragraph (vi)(A) of this section. G. If the owner or operator determines that it is unsafe to perform the seal gap measurements required in 40 CFR 60.113b(b) of subpart Kb or to inspect the vessel to determine compliance with 40 CFR 60.113b(a) of subpart Kb 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 §63.120(b)(7)(i) or §63.120(b)(7)(ii) of subpart G. *[Reference: 40 CFR 63.640(n)(8)(ii) dated 5/25/2001]* v. Record Keeping:	permit. *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]*

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
MACT requirements in 40 CFR Part 63, Subpart CC. *[Reference: 40 CFR Part 63, Subpart CC, Section 63.640 (h)(4) dated 6/12/1996]* F. If any source ceases to store VOL for a period of 1 year or more, subsequent introduction of VOL into the vessel shall be considered an initial fill for the purposes of Monitoring/Testing (A). [Reference: 40 CFR 60.113b(b)(1)(iii) dated 8/11/89]	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]* A. Keep a record of seal gap measurements. Each record shall identify the storage vessel on which the measurement was performed and shall contain: *[Reference 40 CFR 60.115b(b)(3) dated 8/11/89]* 1. The date of measurement. 2. The raw data obtained in the measurement. 3. The calculations described in §60.113b(b)(2) and (b)(3). B. Records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. *[Reference 40 CFR 60.116b(b) dated 10/15/2003]* C. Records of the VOL stored, the period of storage, and the maximum true vapor pressure during the storage period. *[Reference: 40 CFR 60.116b(c) dated 10/15/2003]* D. Each owner or operator subject to the storage vessel provisions in §63.646 shall keep the records specified in §63.123 of subpart G of this part except as specified in paragraphs (i)(1)(i)through (i)(1)(iv) of this section: *[Reference: 40 CFR 60.654(i) dated 8/18/98]* 1. Records related to gaskets, slotted membranes, and sleeve seals are not required for storage vessels within existing sources. 2. All references to §63.122 in §63.123 of subpart G of this part shall be replaced with §63.654(e). 3. All references to §63.150 in §63.123 of subpart G of this part shall be replaced with §63.652.	

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
	E. If a storage vessel is determined to be Group 2 because the weight percent total organic HAP 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]*	
fb. <u>Emission Unit 40</u>: 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, 227-TF-400, 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)		
1. **Volatile Organic Compounds (VOC).** i. Equipment Standards: A. Each external floating roof shall be equipped with a closure device between the wall of the storage vessel and the roof edge. 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. 2. The primary seal shall be either a metallic shoe seal or a liquid-mounted seal. 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). *[Reference: 40 CFR 63.119(c)(1) dated 12/21/2006]* 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*	iii. Compliance Method: 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]* iv. Monitoring/Testing: In addition to the requirements of Conditions 3(b)(1)(ii) of this permit, the Company shall: 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]* 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]* C. The Company shall determine the gap widths and gap areas in the primary and secondary seals (seal gaps) individually by the procedures described in 40 CFR 63.120(b)(2)(i) and (ii). *[Reference: 40 CFR 63.120(b)(2) dated 1/17/1997]* D. The total surface area of each gap shall be	vi. 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: *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]* A. [RESERVED] B. [RESERVED] C. [RESERVED] D. Submit the reports listed below: 1. A Notification of Compliance Status report in accordance with §63.654(f). *[Reference: 40 CFR 63.654(e)(1) dated 8/18/1998]* 2. Semiannual Periodic Reports in accordance with §63.654(g)(1) and (3). *[Reference: 40 CFR 63.654(e)(1) dated 8/18/1998]* 3. [RESERVED] 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. 5. Reports as specified in 40 CFR Part 63 subpart A. *[Reference: 40 CFR 63.654(h) dated 8/18/98]* 6. Reports of startup, shutdown, and

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
1/17/1997] C. The accumulated area of gaps between the vessel wall and the primary seal shall not exceed 212 cm^2/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 1/17/1997]* 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 63.120(b)(6)(i) dated 1/17/1997]* D. The accumulated area of gaps between the vessel wall and the secondary seal shall not exceed 21.2 cm^2/meter of tank diameter and the width of any portion of the gap shall not exceed 1.27 cm. *[Reference: 40 CFR 63.120(b)(4) dated 1/17/1997]* 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: 40 CFR 63.120(b)(5)(ii) and (6)(ii) dated 1/17/1997]* F. If a cover or lid is installed on an opening on a floating roof, the cover or lid shall remain closed except when the cover or lid must be open for access. *[Reference 40 CFR Part 63.646(f)(1) dated 2/21/1997]* G. 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 40 CFR Part 63.646(f)(2) dated 2/21/1997]* H. Automatic bleeder vents are to be closed at all times when the roof is floating except when the roof is being floated off	determined by using probes of various widths to measure accurately the actual distance from the vessel wall to the seal and multiplying each such width by its respective circumferential distance. *[Reference: 40 CFR 63.120(b)(2)(iii) dated 1/17/1997]* E. To determine the accumulated area of gaps between the vessel wall and the primary and secondary seals, the owner/operator shall add the gap surface area of each gap location and divide the sum by the nominal diameter of the vessel. *[Reference: 40 CFR 63.120(b)(3) and (4) dated 1/17/1997]* F. If any storage vessel ceases to store organic HAP for a period of 1 year or more, or if the maximum true vapor pressure of the total organic HAP's in the stored liquid falls below the values defining Group 1 storage vessel specified in table 5 or table 6 of 40 CFR Part 60 subpart G for a period of 1 year or more, measurements of gaps between the vessel wall and the primary seal, and gaps between the vessel wall and the secondary seal shall be performed within 90 calendar days of the vessel being refilled with organic HAP. *[Reference 40 CFR 63.120(b)(1)(iv) dated 1/17/1997]* G. If the owner/operator is determines it is unsafe to perform the seal gap measurements of inspect the vessel because the floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the owner/operator shall comply with the requirements of 40 CFR 63.120(b)(7). *[Reference: 40 CFR 63.120(b)(7) dated 1/17/1997]* H. The Owner/Operator shall visually inspect the external floating roof, primary and secondary seals, and fittings each time the vessel is emptied and degassed. If the external floating roof has defects, as described in 40 CFR	malfunction required by 40 CFR 63.10(d)(5) in accordance with 40 CFR 63.654(h)(1). *[Reference: 40 CFR 63.654(h)(1)dated 8/18/98]* F. Report to the Department the refilling of each storage vessel that has been emptied and degassed. The notification shall be in writing at least 30 calendar days prior to the filling or refilling, except as provided in 40 CFR 63.654(h)(2)(i). *[Reference 40 CFR 63.654(h)(2)(i) dated 8/18/98]* G. Report to the Department any seal gap measurements at least 30 calendar days in advance of any seal gap measurements. *[Reference: 40 CFR 63.654(h)(2)(ii) dated 8/18/98]* 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]*

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
or is being landed on the roof leg supports. *[Reference 40 CFR Part 63.646(f)(3) dated 2/21/1997]* ii. Operational Limitation: A. The external floating roof shall rest on the liquid surface at all times except during initial fill, after the vessel has been completely emptied and degassed, and when the vessel is completely emptied before being subsequently refilled. *[Reference: 40 CFR63.119(c)(3) dated 12/21/2006]]* B. [RESERVED] C. The tanks shall not store petroleum liquid unless the tanks are operating properly. *[Reference: **APC-80/0869(A5)**]* D. The maximum true vapor pressure of the stored petroleum liquid shall be less than 76.6 kilopascals (11.1 psia). *[Reference: 40 CFR 63.641 dated 1/17/1997]* E. [RESERVED] F. 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]*	63.120(b)(10) dated 1/17/1997, the owner/operator shall repair the items as necessary so that none of the defects exist before filling or refilling the storage vessel with organic HAP. *[Reference: 40 CFR 63.120(b)(10) dated 1/17/1997]* I. The O/O shall repair conditions that do not meet the requirements listed in Equipment Standards (B) through (F) no later than 45 calendar days after identification, or shall empty and remove the vessel from service no later than 45 calendar days after identification. If during seal gap measurements or during inspections necessary to determine compliance with Equipment Standards (C), (E), and (F) a failure is detected that cannot be repaired within 45 calendar days and if the vessel cannot be emptied within 45 calendar days, the owner or operator may utilize up to 2 extensions of up to 30 additional calendar days each. Documentation of a decision to utilize an extension shall include a description of the failure, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the control equipment will be repaired or the vessel will be emptied as soon as practical. *[Reference: 40 CFR 63.120(b)(8) dated 1/17/1997]* v. Recordkeeping: 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]* A. Keep records describing the results of each seal gap measurement. The records shall include the date of the measurement, the raw data	

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
	obtained in the measurement, and the calculations. *[Reference 40 CFR 654(i) dated 8/18/1998 and 40 CFR 63.123(d) dated 12/23/2004]* B. Records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel *[Reference 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00* C. Records of the VOL stored, the period of storage and the maximum true vapor pressure during the storage period. *[Reference 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]*	
fc. <u>Emission Unit 40</u>: 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-12, 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, 166-TF-112, 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, 205-TF-153, 223-TF-112, 224-TF-112, 225-TF-133, 227-TF-400, 241-TF-50, 242-TF-153, 243-TF-112, 248-TF-200, 261-TF-50, 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)		
1. **Volatile Organic Compounds (VOC).** i. Emission Standard: 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 shall not exceed 27 tons of VOCs in any twelve consecutive months. *[Reference: **80/0870(A3)** Cond. 1]* ii. Equipment Standards: With the exception of Tanks 048-TF-112, 051-TF-78, 166-TF-112, 225-TF-133, 241-TF-50, 243-TF-112, 248-TF-200, 261-TF-50, 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*	iv. Compliance Method: 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]* A. Compliance with the Emission Standard shall be demonstrated either by using EPA's TANKS 3.1 program or an updated equivalent methodology approved by the Department, using monthly liquid throughput and the monthly average storage temperature of each tank. *[Reference: **80/0870(A3)** Cond. 1]* v. Monitoring/Testing: In addition to the requirements of Conditions 3(b)(1)(ii) of this permit, the Company shall: A. Perform semiannual inspections of the floating	vii. Reporting: 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 Regulation No. 30 Section 6(a)(3)(ii) dated 12/11/00 and 40 CFR 63.646(l) dated 2/21/97]* B. Within 60 days of performing the gap measurements required by Regulation 24, Section 30(c), submit a report containing: 1. The date of measurement. 2. The raw data obtained in the measurement. 3. The calculations described in Regulation 24, section 30(f). *[Reference Regulation No. 30 Section 6(a)(3)(ii) dated 12/11/00]* C. When seal gap measurements exceed those

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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
63.120 dated 1/17/1997] A. The primary mechanical shoe-type seal shall completely cover the annular space between the edge of the floating roof and the tank wall. B. The accumulated area of gaps between the vessel wall and the primary seal shall not exceed 212 cm^2/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]* 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]* D. The accumulated area of gaps between the vessel wall and the secondary seal shall not exceed 21.2 cm^2/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]* 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)(ii) and (6)(ii) dated 1/17/97]* F. All openings in the external floating roof, except for automatic bleeder vents, rim space vents and leg sleeves are equipped with: 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]* G. Automatic bleeder vents are closed at all	roofs and associated components detailed n Equipment Standards (E) through (I). *[Reference: 7 **DE Admin Code** 1124 Section 30.4 dated 11/29/94]*. B. The O/O shall comply with the Monitoring/Testing requirements of Condition 3 – Table 1(fb)(iv). *[Reference: 40 CFR 63.120(b) dated 1/17/97]* vi. Recordkeeping: 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]* 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 654(i) dated 8/18/1998 and 40 CFR 63.123(d) dated 12/23/2004]* 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]* C. Records of the maximum true vapor pressure of the liquid as stored. *[Reference: 7 **DE Admin Code** 1124 sec 30(e)(1)(ii) dated 11/29/94]* 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]* 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: 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]*	specified in Regulation 24, section 30(c), 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(f). The report shall also describe the actions necessary to bring the storage tank into compliance with the specification of Section 30(f). *[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]* D. The Owner/Operator shall submit the reports listed below for the MACT Tanks: *[Reference: 40 CFR 63.654(e) dated 8/18/1998]* 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). 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. 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]*

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
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)(5)(ii) dated 1/17/1997]* H. Rim space vents must be open or set at the manufacturer's recommended setting when the roof is being floated-off the leg supports. *[Reference: 7 **DE Admin Code** 1124, Section 30.c.5. dated 11/29/94]* I. 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)(vi) dated 1/17/1997]* iii. Operational Limitations: A. [RESERVED] B. [RESERVED] C. [RESERVED] 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]* 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. 24 Section 30 as applicable. *[Reference: **APC-80/0869(A5)** Cond. No. 7]* F. Tanks 166-TF-112, 241-TF-50, 243-TF-112, 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		

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
vapor pressure does not exceed 1.5 psia. *[Reference: 40 CFR 63.641 dated 8/18/98]* G. [RESERVED] 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]* 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]*		
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-TC-78, 470-TF-50 (Tank 71-TF-28 is a Group 1 MACT Tank and Tank 78-TC-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).		
1. **Volatile Organic Compounds (VOC).** i. Emission Standard: VOC emissions from Tank 470-TF-50 shall not exceed 0.9 tons in any rolling twelve month period. *[Reference: **81/0120(A2)**]* ii. Operational Limitations for Tanks 71-TF-28 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	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]* 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 and 470-TF-50: Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in	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

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
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]* 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 space between the metal sheet and the floating roof. *[Reference: 40 CFR 60.112b(a)(1)(ii) dated 10/8/97]* 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]* 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]* E. Automatic bleeder vents shall be equipped with a gasket and are to be closed at all	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 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, 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]*. C. For tanks equipped with a double seal system: 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]* 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	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 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]* 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).

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
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]* 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]* 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 percent of the opening. *[Reference: 40 CFR 60.112b(a)(1)(vii) dated 10/8/97]* 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]* 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]* 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]*	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(d)(1)(ii) & (d)(2)(ii) dated 11/29/94* E. If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, or 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]* 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]* 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]* For Tank 470-TF-50: H. Monitor the equivalent turnovers of Tank 470-TF-50.	*[Reference: 40 CFR 63.640(n)(8)(v)]* viii. Certification: None in addition to those listed in Condition 3(c)(3) of this permit.

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
	vi. Record Keeping: In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Owner/Operator shall maintain the following records: A. Rolling twelve month VOC emissions from Tank 470-TF-50 based on equivalent turnovers calculated quarterly. *[Reference: **81/0120(A2)**]* B. Records of all inspections performed as required by the Monitoring/Testing 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 60.115b(a) dated 8/11/89 and 7 **DE Admin Code** 1124 Section 31.5.1.3 dated 11/29/94]* 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 60.116b(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]* D. Records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. *[Reference 40 CFR 60.116b(b) dated 10/15/2003]* 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]*	
fe. **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-TC-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-TC-10 stores methanol and is subject to HON Requirements)		
1. **Volatile Organic Compounds (VOC).**	iii. Compliance Method:	vi. Reporting:

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
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**]* ii. Operational Limitations: A. The internal floating roofs shall rest on the surface of the liquid at all times except during initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently 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. Each opening in the internal floating roof 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 in a closed position at all times except 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 off the leg supports or at the manufacturer's recommended setting. *[Reference: 40 CFR 60.112a(a)(2)] dated 12/18/80 and 40 CFR 63.119(b)(1) dated 1/17/97]* B. The maximum true vapor pressure of the stored liquid shall not exceed 11.1 psia. *[Reference: 40 CFR 60.112a(a) dated 12/18/80 and 40 CFR 63.119(b)(1) dated 1/17/97]*	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]* 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]* C. [RESERVED] D. Compliance with Operational Limitation (D) shall be demonstrated by the proper operation of either process heater 41-H-1 or 42-H-1 at all times that vapors from Tank 581-TF-10 to either of these heaters. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3 dated 12/11/00]* E. Compliance with Operational Limitation (E) shall be demonstrated by satisfying the notification and reporting requirements. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3 dated 12/11/00]* iv. Monitoring/Testing: A. For Tanks 581-TC-10, 60-TF-28, 61-TF-28, 206-TF-112, 471-TF-28, 582-TF-4, 583-TF-4, 584-TF-112: None other than those required by Condition 3 - Table 1.ff.1.v. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]* B. For Tank 471-TF-28: Monitor the equivalent turnovers. *[Reference: **APC-81/0120**]* v. Recordkeeping: 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]* A. Rolling twelve month VOC emissions from Tank 471-TF-28 calculated quarterly. *[Reference: **APC-81/0120**]*	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]* 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 was emptied or the nature of and date the repair was made. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.2 dated 12/11/00]* B. Quarterly reports of the rolling twelve month VOC emissions from Tank 471-TF-28. C. The reports listed below for the MACT Tanks: 1. A Notification of Compliance Status report as described 40 CFR 654(f); 2. Periodic Reports as described in 40 CFR 654(g); and 3. Other reports as described in 40 CFR 654(h). 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(f)(1)(i). *[Reference: 40 CFR 63.654(e) dated 8/18/1998]* vii. Certification: That required by Condition 3(c)(3) of this permit. permit. *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]*

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
C. [RESERVED] D. Vapors from Tank 581-TC-10 shall be controlled by a closed vent system and control device at all times. *[Reference: 40 CFR 63.119(e) dated 1/17/97]* E. Any storage vessel that has continuously been out of service since before August 18, 1998, shall not be returned to HAP service until it satisfies the applicable MACT requirements in 40 CFR part 63, Subpart CC. *[Reference: 40 CFR Part 63, Subpart CC, Section 63.640(h)(4) dated 6/12/1996]*	B. Records of the type of petroleum liquid stored, the period of storage and the maximum true vapor pressure of that liquid during the respective storage period. *[Reference: 40 CFR part 60, Subpart Ka, Section 115a]*	
ff. <u>Emissions Unit 40</u>: 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, 407-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-28, 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-28, 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.		
1. **Volatile Organic Compounds (VOC).** 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. *[Reference: 7 **DE Admin Code** 1124, Section 31.c.1.i. dated 11/29/94]* 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. *[Reference: 7 **DE Admin Code***	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: *[Reference: 7 **DE Admin. Code** 1130 Section 6.3.1, dated 12/11/00]* B. Compliance with Tank 047-TF-78's Emission Limitation in section (v) shall be demonstrated by using EPA's Tanks 3.1 Program or an updated equivalent methodology approved by the Department, using monthly liquid throughput and the vapor pressure obtained from monthly samples using ASTM Method D-5191. *[Reference: **Permit: APC-80/0869(A5)** Cond. No. 5]* vii. Monitoring/Testing:	ix. 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: *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]* 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. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.2 dated 12/11/00]* B. [RESERVED]

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
1124, Section 31.c.2. dated 11/29/94] B. All openings, except stub drains, are equipped with covers, lids, or seals such that: *[Reference: 7 **DE Admin Code** 1124, Section 31.c.3 dated 11/29/94]* 1. The cover, lid, or seal is in the closed position at all times except when in actual use. 2. Automatic bleeder vents are closed at all times except when the roof is being floated off or being landed on the roof leg supports. 3. Rim vents, if provided, are set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. iii. Operational Limitations for 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, 407-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: The maximum true vapor pressure of the stored petroleum liquid shall not exceed 1.5 psia. However, for Tanks 045-TC-153, 062-TC-28, 066-TC-112, 075-TC-78, 076-TC-78, and 077-TC-78, if the maximum true vapor pressure of the stored petroleum liquid exceeds 1.0 psia, then the Owner/Operator shall keep records as described in Section (vi)(B). *[Reference: 7 **DE Admin Code** 1124, Section 31.a.2.iii. dated 11/29/94]* iv. Operation Limitation for all tanks: Any storage vessel that has continuously been out of service since before August 18, 1998, shall not be returned to HAP service until it satisfies the	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. B. For tanks equipped with a double seal system: 1. Visually inspect the internal floating roof and its closure seal or seals through the roof hatches at least once every 5 years. 2. Perform a complete inspection of any cover and double seal whenever the tank is emptied for non-operational reasons or at least every 5 years, whichever is more frequent. viii. Recordkeeping: 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]* A. The Owner/Operator shall maintain the following records in a readily accessible location for at least 5 years and shall make copies of the records available to the Department upon verbal or written request: 1. Records of the types of volatile petroleum liquids stored in that tank. 2. Records of the maximum true vapor pressure of the liquid as stored. 3. Records of the results of the inspections required in paragraph (d) of this Section. B. For fixed roof tanks exempted from Regulation	C. The reports listed below for the MACT Tanks: *[Reference: 40 CFR 63.654(e) dated 8/18/1998]* 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 3. Other reports as described in 40 CFR 63.654(h). 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. x. 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]*

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
applicable MACT requirements in 40 CFR part 63, Subpart CC. *[Reference: 40 CFR Part 63, Subpart CC, §63.640(h)(4) dated 6/12/1996]* v. Emission Limitation for Tank 047-TF-78: Emissions shall not exceed 1.1 tons of volatile organic compounds in any consecutive twelve (12) month period. *[Reference: **APC-80/0869-(A5)** Cond. 1]*	24, Section 31, but containing a petroleum liquid with a true vapor pressure greater than 7.0 kPa (1.0 psia), shall maintain the following records in a readily accessible location for at least 5 years and shall make copies of the records available to the Department upon verbal or written request: 1. Records of the average monthly storage temperature. 2. Records of the type of liquid stored. 3. Records of the maximum true vapor pressure for any petroleum liquid with a true vapor pressure greater than 7.0 kPa (1.0 psia).	
fg. Emissions Unit 40: Refinery Tank Farm Units Subject to Special Odor Prevention Measures: Tanks 44-TF-112, 45-TC-152, 47-TF-78, 48-TF-112, 50-TF-78, 51-TF-78, 60-TF-28, 61-TF-28, 62-TC-28, 71-TF-28, 72-TF-50, 73-TF-78, 414-TC-M, 416-TF-3, 470-TF-50, 471-TF-28		
1. **Odor Control.** i. Operational Limitations: A. A floating layer of oil at least 1 foot thick must be maintained to control odors from Tanks 470-TF-50 and 471-TF-28. *[Reference: **APC-81/0120** Cond. No. 11]* B. The oil layer shall be replaced if hydrogen sulfide is detected in tank vapor space during the weekly tank inspection. *[Reference: **APC-81/0120**]* C. The oil layer thickness shall be gauged every month when Tanks 470-TF-50 and 471-TF-28 are checked for sediment readings. *[Reference: **APC-81/0120**]* D. Tanks 470-TF-50, 471-TF-28, 414-TC-M and 416-TC-3: Each day a formal documented inspection shall be performed by an operator making a "walk-around" inspection of the tank base and by climbing each tank and viewing each roof. *[Reference: Letter from R.G. Soehlke to DNREC Acting Secretary John Hughes dated 2/28/89]*	ii. Compliance Method: Compliance with the operation 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]* iii. Monitoring/Testing: In addition to that described under the Operational Limitations: A. Compliance with Operational Limitation (G) shall be demonstrated weekly by a H_2S Draeger tube that displays a reading less than 10 ppm. Readings of 10 ppm or greater is indicative of an odor problem and the carbon beds shall be regenerated. *[Reference: Star Enterprise's "Carbon Canister Monitoring at Offtest and Sour Water Tanks" submitted as Attachment "A" of **Permit: APC-81/0120** and **APC-81/0120**]* iv. Recordkeeping: In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company	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: *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]* A. Submit deviations in the Semi-Annual title V Report identified in the inspection(s) of Tank 470-TF-50 and the results of the inspection(s). A list of all corrective actions shall be included. The reports shall include proposed actions for problems that have not been resolved and provide a timetable for the Department's approval for corrections to be made. *[Reference: **APC-81/0120**]* 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]*

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
E. Tanks 44-TF-112, 45-TC-152, 047-TC-78, 48-TF-112, 50-TF-78, 51-TF-78, 60-TF-28, 61-TF-28, 62-TC-28, 71-TF-28, 72-TF-50, 73-TF-78: Each week a formal documented inspection shall be performed by an operator making a "walk-around" inspection of the tank base and by climbing each tank and viewing each roof. *[Reference: Letter from R.G. Soehlke to DNREC Secretary Jon Hughes dated 2/28/89]* F. Tank 470-TF-50 shall be monitored in accordance with the requirements of API Recommended Practice 651 - Cathodic Protection of Aboveground Petroleum Storage Tanks and in accordance with NACE Recommended Practice RP0193-93 - External Cathodic Protection of On-Grade Metallic Storage Tank Bottoms. *[Reference: **APC-81/0120**]* G. Proper operation of the Conservation Vent and Carbon Adsorption Bed of Tank 471-TF-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. Soelkhe 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-81/0120**]* 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-81/0120**]*	shall: *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]* A. A hard bound log book or electronic record shall be designated to record the following information: tank number, date, operator's initials making the inspection, and pertinent findings. *[Reference: **APC-81/0120**]*	

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
fh. Reserved (formerly Process Heater 40-H-1)		
Reserved. (The unit has been demolished).		
fi. Emissions Unit 40: Frozen Earth Storage System Flare, Emission Point 40-1.		
1. **Visible Emission Standard.** i. The flare 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 hours. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]*	ii. Compliance Method: Compliance with the emission standard shall be based on the proper operation of the refrigeration vapor recovery system. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]* iii. Monitoring/Testing: *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3 dated 12/11/00]* A. The Owner/Operator shall conduct daily qualitative observations of the flare using Reference Method 22 to evaluate the presence or absence of smoke and/or visible air contaminants during a continuous 15 minute period while the flare is in operation. B. If visible emissions are detected during any daily qualitative survey of visible emissions or is observed at any other time, the Owner/Operator shall take corrective action and/or conduct a visible emissions test using 40 CFR 60, Appendix a, Reference Method 22 dated 7/11/06. The observation period is 2 hours and shall be done according to Reference Method 22. iv. 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]* A. Observation records shall be maintained on site. B. Records of maintenance performed on the unit.	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]* 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]*

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
2. Sulfur Dioxide (SO_2) i. Emission Standard: The Company shall not burn any fuel in the flare that contains H_2S in excess of 0.1 grain/DSCF. *[Reference 7 **DE Admin Code** 1120, Section 11 dated 11/27/85 and 40 CFR 60.104(a)(1) dated 10/17/2000 and Paragraph 24 and Attachment 2 of Civil Action No. H-01-0978, Heaters and Boilers Consent Decree between the USA, Plaintiff and the States of Delaware and Louisiana, and the Northwest Air Pollution Authority of the State of Washington, Plaintiff-Interveners versus Motiva Enterprises LLC, Defendant, entered on March 21, 2001]*	ii. Compliance Method: Compliance with the Emission Standard shall be based on monitoring. *[Reference: 7 **DE Admin. Code** 1130 Section 6.3.1, dated 12/11/00]* iii. Monitoring/Testing: A one time measurement of the H_2S content of the fuel shall be made for Copper Strip according to the approved Alternate Monitoring Program and EPA guidance. *[Reference: Letter from Motiva dated 9/12/2001 to Judy Katz, Air Protection Division Director, US EPA Region 3]* iv. 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]* The Company shall maintain results of the fuel sampling required by the Alternate Monitoring Plan. *[Reference: Letter from Motiva dated 9/12/2001 to Judy Katz, Air Protection Division Director, US EPA Region 3]*	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]* 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]*
fj. <u>Emission Unit 40</u> – Ethanol Blending Project with a fixed roof tank equipped with an internal floating roof (Tank 206-TF-112) and ancillary equipment.		
1. Volatile Organic Compounds (VOC): 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 from Tank 206-TF-112 and 0.21 ton of fugitive emissions from new components installed at the refinery for purposes of the Ethanol Blending Project. *[Reference: **<u>80/0868-C/O</u>** Cond. No. 2.1.1]* ii. Emission Standard: The leak detection and repair requirements to control fugitive VOC emissions from the Ethanol Project shall be in accordance with the	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 to estimate emissions from Tank 206-TF-112 and the results of the quarterly LDAR monitoring program using a Department approved method. *[Reference: **<u>80/0868-C/O</u>** Cond. No. 4.1]* 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 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.	vi. 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: *[Reference: 7 **DE Admin Code** 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]* 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

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
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: AQM-003/00016 – Part 2**, Condition 3 – Table 1, in the section "Facility Wide Requirements for Fugitive VOC Emissions". *[Reference: 80/0868-C/O Cond. No. 2.1.2]* iii. Operational Standards for Tank 206-TF-112, a fixed roof tank with an internal floating type cover equipped with a continuous closure device between the tank wall and the cover edge: 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. 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 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	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". C. Compliance with the Operational Standards shall be based on the testing procedures in 40 CFR Part 115a. 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]* A. Results of the rolling 12 month VOC emissions comprised of working and breathing loses from Tank 206-TF-112 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: AQM-003/00016 – Part 2**, Condition 3 – Table 1, in the section "Facility Wide Requirements for Fugitive VOC Emissions". B. Results of the monitoring and testing required by Compliance Method C above. [*Reference: 80/0868-C/O Cond. No. 5]*	after reasonable notice to the Owner/Operator. An electronic copy of all required reports shall be sent to the Department's compliance engineer assigned to the Refinery. The required reports shall contain the following information: 1 Results of the VOC emissions from Tank 206-TF-112 and the LDAR monitoring program pursuant to 40 CFR 60, Subpart GGG for new components in light liquid service and 40 CFR 63, Subpart CC for new components in light liquid HAP service, in excess of the quantities specified in the Emission Limitation. 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". 2 The results of monitoring to comply with Compliance Method B shall be included in the semi-annual LDAR reports submitted by the Owner/Operator and shall include the following information for each month during the semi-annual period: a. Process unit identification b. The number of valves and pumps monitored in each unit; c. The number of valves and pumps found leaking; d. A list of all valves and pumps currently on the delay of repair list and the date each component was put on such list. *[Reference: 80/0868-C/O Cond. No. 6.2]* 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]*

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
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. [Reference: *80/0868-C/O Cond. No. 3.1 and 40 CFR Part 60.112a(a)(2) dated 7/1/07]*		
g. **Emissions Unit 43**: Ether Plant Fugitive VOC 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 SOCMI; Subpart VV and Facility-Wide Standards of Performance for Equipment Leaks of VOC in SOCMI.		
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".		
h. **Emission Units 99-1(a), 99-1(b), 99-1(c)**: Cold solvent degreasers.		
1. **Operational Standards.** i. A. For each cold solvent degreaser the Owner/Operator shall: 1. Equip the cleaner with a cover that is easily operated with one hand if the cleaning solvents used have a vapor pressure greater than 15mm Hg at 100 degrees F; 2. Provide a permanent, legible, conspicuous label, summarizing the operation requirements; 3. Store waste solvent in covered containers; 4. Close the cover whenever the parts are not being handled in the cleaner; 5. Drain the cleaned parts until the dripping eases; 6. If used, supply a solvent spray that is a solid fluid stream at a pressure that does not exceed 10 psig; 7. Degrease only materials that are	ii. Compliance Method: Compliance shall be demonstrated by monitoring/testing and record keeping requirements of this condition. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3 dated 12/11/00]* iii. Monitoring/Testing: A. The Material Safety Data Sheet supplied with each delivery of new solvent type shall be reviewed. ASTM D323-89 shall be the method used for measuring solvent true vapor pressure. *[Reference 7 **DE Admin Code** 1124, Section 33.4.5 dated 1/11/93]* B. The concentration of the solvents listed in Operational Standard (B) may be determined using EPA Method 18, material safety data sheets, or engineer calculations. *[Reference 40 CFR 63.460(a) dated 12/11/98]* iv. Record Keeping: In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Owner/Operator shall maintain copies of the	v. Reporting Requirement: 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]* A. Comply with the requirements of 7 DE Admin Code 1124 Section 5.2 regarding reports of excess emissions. 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]*

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
neither porous nor absorbent. *[Reference 7 **DE Admin Code** 1124, Section 33.3.1 dated 1/11/93]* B. The Owner/Operator shall not use any solvent containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, or chloroform or any combination of these halogenated HAP solvents, in a total concentration greater that 5 percent by weight, as a cleaning and/or drying agent. *[Reference 40 CFR 63.460(a) dated 12/11/98]*	manufacturer supplied Material Safety Data Sheet and other records showing the solvent content and the vapor pressure of the solvent used as determined by ASTM D323-89. *[Reference 7 **DE Admin Code** 1130, Section 6.1.3 dated 12/11/00]*	
i. <u>Facility Wide</u>: The following permit conditions are applicable to all emission units listed in Condition No. 1 of this permit.		
1. **Visible Emissions Standard.** i. 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 percent 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]*	ii. Compliance Method: Except for units where compliance with the standard is required to be demonstrated by an alternative monitoring plan, compliance with the emission standard of this condition shall be demonstrated in accordance with Subsection 1.5(c) of Regulation No. 20 and the recordkeeping requirements of this condition. *[Reference 7 **DE Admin Code** 1114 Section 4.1 dated 7/17/84 and 7 **DE Admin Code** 1130 Section 6.1.3 dated 12/11/00]* iii. Monitoring/Testing: A. Visual observations in accordance with paragraph (C) below shall be conducted within one (1) week of the annual tune-up. *[Reference 7 **DE Admin Code** 1130 Section 6.1.3 dated 12/11/00]* B. The Owner/Operator shall conduct weekly qualitative 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	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]* 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]*

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
	(C) below. 2. If no visible emissions are observed, no further action is required. *[Reference 7 **DE Admin Code** 1130 Section 6.1.3 dated 12/11/00]* C. In accordance with Subsection 1.5(c) of 7 **DE Admin Code** 1120, 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 dated 12/7/88]* iv. Record Keeping: In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall maintain observation records. *[Reference Regulation No. 30 Section 6.1.3.1.2 dated 12/11/00]*	
2. **Odor - State Enforceable Only.** i. The Owner/Operator shall not cause or allow the emission of an odorous air contaminant such as to cause a condition of air pollution. *[Reference 7 **DE Admin Code** 1119 Section 2.1 dated 2/1/81]*	ii. Compliance Method: Compliance with the emission standard of this condition shall be demonstrated in accordance with the monitoring/testing and record keeping requirements of this condition. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3 dated 12/11/00]* iii. Monitoring/Testing: Includes but is not limited to scentometer tests, air quality monitoring, and affidavits from affected citizens and investigators. *[Reference 7 **DE Admin Code** 1119 Section 1.2 dated 2/1/81]* iv. Recordkeeping: That required by Conditions 3(b)(1)(ii) and 3(b)(2) of this permit. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]*	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]* 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]*

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
3. **Handling, Storage and Disposal of VOCs.** i. Work Practice Standards: A. The Owner/Operator shall not cause, allow, or permit the disposal of more than eleven (11) pounds of a Volatile Organic Compound (VOC), or of any materials containing more than 11 pounds of any VOCs, in any 1 day, in a manner that would permit the evaporation of VOC into the ambient air. This includes but is not limited to the disposal of VOC from any VOC control devices. This provision does not apply to: 1. Any VOC or material containing VOC emitted from a regulated entity that is subject to a VOC standard under Regulation No. 24. 2. Any VOC or material containing VOCs used during process maintenance turnarounds for cleaning purposes, provided that the provisions of paragraph (B), (C), and (D) of this condition are followed. 3. Waste paint (sludge) handling systems, water treatment systems, and other similar operations at coating facilities using complying coatings. B. No owner or operator of a facility subject to this regulation shall use open containers for the storage or disposal of cloth or paper impregnated with VOCs that are used for surface preparation, cleanup, or coating removal. Containers for the storage or disposal of cloth or paper impregnated with VOCs shall be kept closed, except when adding or	ii. Compliance Method: Compliance shall be demonstrated by adherence with the VOC handling work practices and providing appropriate training and posting of instructions, and record keeping for storage, use and disposal of VOCs. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3 dated 12/11/00]* iii. Monitoring/Testing: Monitor employee training records on an annual basis and update records as needed. *[Reference: 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]* iv. Recordkeeping: 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]* A. The Owner/Operator shall keep a record of postings, and employee training related to these work practice standards of handling, storage, and disposal of VOCs. *[Reference 7 **DE Admin Code** 1130 Section 6.1.3.1.2 dated 12/11/00]*	v. Record Keeping 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]* 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]*

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
removing material. C. No owner or operator of a facility subject to this regulation shall store in open containers spent or fresh VOC to be used for surface preparation, cleanup or coating removal. Containers for the storage of spent or fresh VOCs shall be kept closed, except when adding or removing material. D. No owner or operator shall use VOC for the cleanup of spray equipment unless equipment is used to collect the cleaning compounds and to minimize their evaporation to the atmosphere. *[Reference 7 **DE Admin Code** 1124, Section 8 dated 11/29/94]*		

Condition 4. Operational Flexibility

a. In addition to the operational flexibility specifically provided in the terms and conditions detailed in Condition 3 – Table 1 of this permit, the Owner and/or Operator 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:

1. Is not a modification or otherwise prohibited under any provision of Title I of the Act or the State Implementation Plan (SIP); and *[Reference:* 7 ***DE Admin. Code*** *1130 Section 6.8 dated 12/11/00]*
2. Does not involve a change in any compliance schedule date; and *[Reference:* 7 ***DE Admin. Code*** *1130 Section 6.8 dated 12/11/00]*
3. 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. *[Reference:* 7 ***DE Admin. Code*** *1130 Section 6.8 dated 12/11/00]*

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. *[Reference:* 7 ***DE Admin. Code*** *1130 Section 6.8.1 dated 12/11/00]*

c. The Owner and/or Operator shall keep records of any changes made under Condition 4 of this permit in accordance with Condition 3(b)(2)(iv) of this permit. *[Reference:* 7 ***DE Admin. Code*** *1130 Section 6.8.1 dated 12/11/00]*

Condition 5. Compliance Schedule.

This permit does not contain a compliance schedule. *[Reference:* 7 ***DE Admin. Code*** *1130 Section 6.3.3 dated 12/11/00]*

Condition 6. Permit Shield.

Compliance with the terms and conditions of this permit shall be deemed compliance with the applicable requirements as provided in Condition 6 -Table 1 as of the effective date of this permit. *[Reference: 7* ***DE Admin. Code*** *1130 Section 6.6.3 dated 12/11/2000]*

Condition 6 – Table 1

Emission Unit	Applicable Requirement
1. Emission Unit 29	i. 7 **DE Admin. Code** 1102 ii. 7 **DE Admin. Code** 1103 iii. 7 **DE Admin. Code** 1104 Section 2.1 iv. 7 **DE Admin. Code** 1108 v. 7 **DE Admin. Code** 1112 Section 4.1 vi. 7 **DE Admin. Code** 1114 Section 2.1 vii. 7 **DE Admin. Code** 1119 viii. 7 **DE Admin. Code** 1120 Section 1.2, 1.3, 1.4 and 11 ix. 7 **DE Admin. Code** 1124 Sections 1-10, 28 and 29 x. 40 CFR Part 60 Subpart J xi. 40 CFR Part 60 Appendix B xii. 40 CFR Part 6 Appendix F
2. Emission Unit 32	i. 7 **DE Admin. Code** 1102 ii. 7 **DE Admin. Code** 1103

	iii. 7 **DE Admin. Code** 1104 Section 2.1 iv. 7 **DE Admin. Code** 1108 v. 7 **DE Admin. Code** 1112 vi. 7 **DE Admin. Code** 1114 Section 2.1 vii. 7 **DE Admin. Code** 1119 viii. 7 **DE Admin. Code** 1121 Sections 14 and 15 ix. 7 **DE Admin. Code** 1124 Section 1-10, 28, 29 and 50 x. 40 CFR Part 61 Subpart J xi. 40 CFR Part 61 Subpart V xii. 40 CFR Part 61 Subpart Y xiii. 40 CFR Part 61 Subpart BB xiv. 40 CFR Part 63 Subpart F xv. 40 CFR Part 63 Subpart G xvi. 40 CFR Part 63 Subpart H xvii. 40 CFR Part 63 Subpart CC
3. Emission Unit 33	i. 7 **DE Admin. Code** 1102 ii. 7 **DE Admin. Code** 1103 iii. 7 **DE Admin. Code** 1104 Section 2.1 iv. 7 **DE Admin. Code** 1108 v. 7 **DE Admin. Code** 1112 vi. 7 **DE Admin. Code** 1114 Section 2.1 vii. 7 **DE Admin. Code** 1119 viii. 7 **DE Admin. Code** 1124 Section 1-10, 28 and 29 ix. 40 CFR Part 60 Subpart GGG
4. Emission Unit 34	i. 7 **DE Admin. Code** 1102 ii. 7 **DE Admin. Code** 1103 iii. 7 **DE Admin. Code** 1104 Section 2.1 iv. 7 **DE Admin. Code** 1108 v. 7 **DE Admin. Code** 1112 vi. 7 **DE Admin. Code** 1114 Section 2.1 vii. 7 **DE Admin. Code** 1119 viii. 7 **DE Admin. Code** 1120 ix. 7 **DE Admin. Code** 24 Section 1-10, 28, 29 and 30 x. 40 CFR Part 60 Subpart Kb xi. 40 CFR Part 60 Appendix B xii 40 CFR Part 60 Appendix F xiii. 40 CFR Part 63 Subpart CC
5. Emission Unit 36	i. 7 **DE Admin. Code** 1102 ii. 7 **DE Admin. Code** 1103 iii. 7 **DE Admin. Code** 1104 Section 2.1 iv. 7 **DE Admin. Code** 1108 v. 7 **DE Admin. Code** 1112 vi. 7 **DE Admin. Code** 1114 Section 2.1 vii. 7 **DE Admin. Code** 1119 viii. 7 **DE Admin. Code** 1124 Sections 1-10, 28 and 29
6. Emission Unit 40	i. 7 **DE Admin. Code** 1102 ii. 7 **DE Admin. Code** 1103 iii. 7 **DE Admin. Code** 1104 Section 2.1 iv. 7 **DE Admin. Code** 1108 v. 7 **DE Admin. Code** 1114 Section 2.1

	vi. 7 **DE Admin. Code** 1119 vii. 7 **DE Admin. Code** 1120 Sections 13 and 27 viii. 7 **DE Admin. Code** 1124 Sections 1-10, 30 and 31 ix. 40 CFR Part 60 Subpart Ka x. 40 CFR Part 60 Subpart Kb xi. 40 CFR Part 63 Subpart CC
7. Emission Unit 43	i. 7 **DE Admin. Code** 1102 ii. 7 **DE Admin. Code** 1103 iii. 7 **DE Admin. Code** 1104 Section 2.1 iv. 7 **DE Admin. Code** 1119 v. 7 **DE Admin. Code** 1120 Section 1.2, 1.3, 1.4 and 22 vi. 7 **DE Admin. Code** 1124 Sections 1-10, 28 and 29 vii. 40 CFR Part 60 Subpart GGG viii. 40 CFR Part 60 Subpart QQQ ix. 40 CFR Part 63 Subpart CC
8. Facility-wide	i. 7 **DE Admin. Code** 1103 ii. 7 **DE Admin. Code** 1104 Section 2.1 iii. 7 **DE Admin. Code** 1117 Section 2.2 and 7 iv. 7 **DE Admin. Code** 1119 Section 2.1 v. 7 **DE Admin. Code** 1124 Section 1-10, 9, 28, 29, 40 and 50 vi. 40 CFR Part 60 Subpart VV vii. 40 CFR Part 63 Subpart CC

Attachment "A"- Revision History

Date	Number	Revision Type	Description	Pages Revised
5/27/2008	Renewal 1	Permit Renewal	Renewal of permit; updated to reflect operating conditions and limitations and regulations.	--
11/10/2005	Revision 1	Administrative Permit Amendment	Incorporates change of Responsible Official	1
4/30/2002	Revision 2	Administrative Permit Amendment	Added two fuel sources for Train 29-H-2	17
3/20/2002	Revision 1	Significant Permit Modification	Incorporates Alternate Monitoring Plans for fuel combustion units per 40 CFR 60 Subpart J	17, 17a, 18, 70, 70a, 71, 102a, 103

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pc: Dover Title V File
Ravi Rangan, P.E.
Bruce Steltzer