John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

2/4/2013

Certified Mail

TARA BARRETT
Georgia Pacific Chemicals LLC
1975 Watkins Road
Columbus, OH 43207

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
Yes	SYNTHETIC MINOR TO AVOID TITLE V
Yes	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0125040904
Permit Number: P0112736
Permit Type: Administrative Modification
County: Franklin

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

How to appeal this permit

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of $70.00, made payable to “Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General’s Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
77 South High Street, 17th Floor
Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions, please contact Ohio EPA DAPC, Central District Office at (614)728-3778or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA-CDO

FINAL

Division of Air Pollution Control
Permit-to-Install and Operate
for
Georgia Pacific Chemicals LLC

Facility ID:	0125040904
Permit Number:	P0112736
Permit Type:	Administrative Modification
Issued:	2/4/2013
Effective:	2/4/2013
Expiration:	11/15/2016

Division of Air Pollution Control
Permit-to-Install and Operate
for
Georgia Pacific Chemicals LLC

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Authorization

Facility ID:	0125040904
Application Number(s):	M0002059
Permit Number:	P0112736
Permit Description:	Modification of FEPTIO P0108409 to correct the molecular weight of formaldehyde from 32.00 to 30.00 and to correct the vapor pressure of methanol from 0.0008 to 0.008
Permit Type:	Administrative Modification
Permit Fee:	$0.00
Issue Date:	2/4/2013
Effective Date:	2/4/2013
Expiration Date:	11/15/2016

Permit Evaluation Report (PER) Annual Date: Oct 1 - Sept 30, Due Nov 15

This document constitutes issuance to:

Georgia Pacific Chemicals LLC
1975 Watkins Road
Columbus, OH 43207

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Central District Office
50 West Town Street, 6th Floor
P.O. Box 1049
Columbus, OH 43216-1049
(614)728-3778

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s))listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally
Director

Authorization (continued)

Permit Number: P0112736
Permit Description: Modification of FEPTIO P0108409 to correct the molecular weight of formaldehyde from 32.00 to 30.00 and to correct the vapor pressure of methanol from 0.0008 to 0.008

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	**J008**
Company Equipment ID:	J008
Superseded Permit Number:	P0108409
General Permit Category and Type:	Not Applicable

Group Name: Loading stations 2 and 3

Emissions Unit ID:	**J001**
Company Equipment ID:	Loading Station No.2
Superseded Permit Number:	P0108409
General Permit Category andType:	Not Applicable
Emissions Unit ID:	**J002**
Company Equipment ID:	Load Stat #3 (Z031)
Superseded Permit Number:	P0108409
General Permit Category andType:	Not Applicable

A. Standard Terms and Conditions

1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

- PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

  You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement.Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is

very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is takenby Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Ohio EPA DAPC, Central District Office in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting[1] a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emissions unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

[1] Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.

B. Facility-Wide Terms and Conditions

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

   a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

      (1) None.

   b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

      (1) Allowable Facility Emission Limitations:

      The emissions of HAPs, as identified in Section 112(b) of Title III of the Clean Air Act, from all emissions units at this facility as well as any de minimis emissions units, permanent exempt pursuant to OAC rule 3745-31-03 located at the facility and any future installed emissions units, combined, shall not exceed 9.9 TPY for any individual HAP and 24.9 TPY for any combination of HAPs, based upon rolling, 12-month summations of the HAP emissions.

      (2) Recordkeeping Requirements

      The permittee shall on a monthly basis maintain the following information for the entire facility:

      a. the rolling, 12-month summation of individual HAP emissions; and

      b. the rolling, 12-month summation of combined HAP emissions.

      (3) Reporting Requirements:

      The permittee shall submit quarterly deviation (excursion) reports that identify:

      a. all exceedances of the rolling, 12-month individual HAP emission limitation; and

      b. allexceedances of the rolling, 12-month combined HAP emission limitation.

      If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

      (4) Applicable Compliance Method

      Compliance with these emission limitations shall be determined through emission unit specific monitoring and recordkeeping requirements for the entire facility.

C. Emissions Unit Terms and Conditions

1. J008, J008

Operations, Property and/or Equipment Description:

Loading station No. 5 -- Railcar loading of urea formaldehyde

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. b)(1)a., b)(2)b., and d)(1).

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (Synthetic minor to avoid Title V and MACT)	Methanol emissions from loading urea-formaldehyde solution shall not exceed 0.014 ton per year. Formaldehyde emissions from loading urea-formaldehyde solution shall not exceed 0.049 ton per year. See b)(2)b.

(2) Additional Terms and Conditions

a. The annual emission limitation for this emissions unit was established to reflect the potential to emit (PTE) for formaldehyde and methanol emissions from the maximum design capacity of formaldehyde plant number 1.

b. The PTE for the rail loading station is based upon the maximum design capacity of 105,014,880 lbs (9,512,217gallons) 30% urea-formaldehyde solution from formaldehyde plant number 1.

c. The emission factor for formaldehyde during transfer of 30% urea-formaldehyde solution of 0.0196 lb/1,000 gallon for uncontrolled emissions from the tanker loading station was derived using equations in AP-42 section 5.2 based on the partial vapor pressure of 0.0485 psi at 95 degrees Fahrenheit (average storage temperature).

d. The emission factor for methanol during transfer of 30% urea-formaldehyde solution of 0.014 lb/1,000 gallon for uncontrolled emissions from the tanker loading station was derived using equations in AP-42 section 5.2 based on the partial pressure of 0.0320 psi at 95 degrees Fahrenheit (average storage temperature).

e. A means shall be provided to prevent drainage of formaldehyde product from the loading device when it is not in use or to accomplish complete drainage before the loading device is disconnected.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain a record of the company identification and the gallons (or weight in pounds) of urea-formaldehyde solution (as 50 percent formaldehyde) loaded through this emissions unit during each fiscal quarter.

e) Reporting Requirements

(1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

(2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be completed electronically and submitted via the Ohio EPA eBusiness Center: Air Services by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

(3) The permittee shall submit annual reports to Ohio EPA, which at a minimum specify the total methanol and formaldehyde emissions from rail loading station 5 (J008), for the previous calendar year (January 1 through December 31). These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including the specific emission data for this emissions unit in the annual Fee Emissions Report.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

0.014 ton per year of methanol

Applicable Compliance Method:

The permittee shall demonstrate compliance through the monitoring and record keeping in d)(1) and the following equation from AP-42 Section 5.2 (June 2008):

L_L = 12.46 x (SPM/T)

Where:

L_L = Loading loss, pounds per 1,000 gallons of liquid loaded

S = saturation factor, 0.60 for dedicated normal service submerged loading

P = vapor pressure in psi, 0.0320 for methanol

M = molecular weight, 32.04 for methanol

T = temperature of material loaded in Rankine, 555 R

Emissions are annual throughput information from d)(1) multiplied by L_L and a conversion factor of 1 ton/2,000 lbs.

b. Emission Limitation:

0.049 ton per year of formaldehyde

Applicable Compliance Method:

The permittee shall demonstrate compliance through the monitoring and record keeping in d)(1) and the following equation from AP-42 Section 5.2 (June 2008):

L_L = 12.46 x (SPM/T)

Where:

L_L = Loading loss, pounds per 1,000 gallons of liquid loaded

S = saturation factor, 0.60 for dedicated normal service submerged loading

P = vapor pressure in psi, 0.0485 for formaldehyde

M = molecular weight, 30.00 for formaldehyde

T = temperature of material loaded in Rankine, 555 R

Emissions are annual throughput information from d)(1) multiplied by L_L and a conversion factor of 1 ton/2,000 lbs.

g) Miscellaneous Requirements

(1) None.

2. Emissions Unit Group -Loading stations 2 and 3: J001,J002,

EU ID	Operations, Property and/or Equipment Description
J001	Loading station 2 - truck loading of aqueous thermosetting resin
J002	Loading Station No. 3 -- truck loading of aqueous thermosetting resin

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. b)(1)a., b)(2)a., b)(2)b., and d)(1)

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (Synthetic minor to avoid Title V and MACT)	Methanol emissions shall not exceed 0.071 ton per year. Formaldehyde emissions shall not exceed 0.022 ton per year. See b)(2)a., b)(2)b.

(2) Additional Terms and Conditions

a. The annual emission limitations were established to reflect the potentials to emit (PTEs) for emissions units J001 and J002. The PTEs are based upon a maximum annual production capacity of resin kettles 1 (P004) and 3 (P006) of 18,941,000 gallons phenol-formaldehyde resins, 1,125,482 gallons of which may contain residual methanol.

b. The permittee shall not load novalac resin through this loading station.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain a record of the company identification and the gallons (or weight in pounds) of each resin loaded during each fiscal quarter.

e) Reporting Requirements

(1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

(2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be completed electronically and submitted via the Ohio EPA eBusiness Center: Air Services by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

(3) The permittee shall submit annual reports to the Ohio EPA, that specify the total methanol and formaldehyde emissions from loading stations 2 (J001) and 3 (J002) for the previous calendar year (January 1 through December 31). The report shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitation:</u>

0.071 ton per year of methanol

<u>Applicable Compliance Method:</u>

The permittee shall demonstrate compliance through the monitoring and record keeping in d)(1) and the following equation from AP-42 Section 5.2 (June 2008):

$L_L = 12.46 \times (SPM/T)$

Where:

L_L = Loading loss, pounds per 1,000 gallons of liquid loaded

S = saturation factor, 1.45 for dedicated normal service splash loading

P = vapor pressure in psi, 0.008 for methanol

M = molecular weight, 32.04 for methanol

T = temperature of material loaded in °Rankine, 540°R

Emissions are annual throughput information from d)(1) multiplied by L_L and a conversion factor of 1 ton/2,000 lbs.

b. Emission Limitation:

0.022 ton per year of formaldehyde

Applicable Compliance Method:

The permittee shall demonstrate compliance through the monitoring and record keeping in d)(1) and the following equation from AP-42 Section 5.2 (June 2008):

L_L = 12.46 x (SPM/T)

Where:

L_L = Loading loss, pounds per 1,000 gallons of liquid loaded

S = saturation factor, 1.45 for dedicated normal service submerged loading

P = vapor pressure in psi, 0.0160 for formaldehyde

M = molecular weight, 30.00 for formaldehyde

T = temperature of material loaded in °Rankine, 540°R

Emissions are annual throughput information from d)(1) multiplied by L_L and a conversion factor of 1 ton/2,000 lbs.

g) Miscellaneous Requirements

(1) None.