

West Virginia Department of Environmental Protection

Harold D. Ward  
Cabinet Secretary

# Title V Operating Permit Revision

## For Minor Modification Permitting Action Under 45CSR30 and Title V of the Clean Air Act

**Permit Action Number:** MM01 **SIC:** 2869, 2879  
**Name of Permittee:** PureTech Scientific LLC  
**Facility Name/Location:** Belle Plant  
**County:** Kanawha County  
**Permittee Mailing Address:** 901 W DuPont Avenue, Belle, WV 25015

**Description of Permit Revision:** This minor modification incorporates the changes permitted under R13-1534D which incorporated the applicable requirements from consent orders CO-R21-97-31 and CO-R27-92-45A(91) into the NSR permit.

**Title V Permit Information:**

**Permit Number:** R30-03900749-2020 (4A of 5)  
**Issued Date:** July 20, 2020  
**Effective Date:** August 03, 2020  
**Expiration Date:** July 20, 2025

**Directions To Facility:** Exit onto U.S. Route 60. Turn right onto DuPont Avenue from Route 60. The plant gate is located on the left.

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THIS PERMIT REVISION IS ISSUED IN ACCORDANCE WITH THE WEST VIRGINIA AIR POLLUTION CONTROL ACT (W.VA. CODE §§ 22-5-1 ET SEQ.) AND 45CSR30 - "REQUIREMENTS FOR OPERATING PERMITS." THE PERMITTEE IDENTIFIED AT THE FACILITY ABOVE IS AUTHORIZED TO OPERATE THE STATIONARY SOURCES OF AIR POLLUTANTS IDENTIFIED HEREIN IN ACCORDANCE WITH ALL TERMS AND CONDITIONS OF THIS PERMIT.



Laura M. Crowder

Digitally signed by: Laura M. Crowder  
DN: CN = Laura M. Crowder email = Laura.M.  
Crowder@wv.gov C = US O = WV Department of  
Environmental Protection OU = Division of Air Quality  
Date: 2024.02.26 12:57:15 -0500

Laura M. Crowder  
Director, Division of Air Quality

February 26, 2024

Date Issued

Permit Number: **R30-~~0390000103900749~~-2020 (4A of 5)**  
Permittee: **~~The Chemours Company FC, LLC~~ PureTech Scientific LLC**  
Facility Name: **Belle Plant**  
Mailing Address: **901 W. DuPont Ave.  
Belle, WV 25015**

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*This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45CSR30 — Requirements for Operating Permits. The permittee identified at the above-referenced facility is authorized to operate the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.*

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Facility Location:	Belle, Kanawha County, West Virginia
Facility Mailing Address:	901 W. DuPont Ave. Belle, WV 25015
Telephone Number:	<del>304-357-1000</del> (614) 395-4531
Type of Business Entity:	Corporation
Facility Description:	Manufacturer of various organic and agricultural chemicals. Production of glycolic acid.
SIC Codes:	2869; 2879
UTM Coordinates:	451.90 km Easting • 4232.60 km Northing • Zone 17

Permit Writer: Mike Egnor

*Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.*

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*Issuance of this Title V Operating Permit does not supersede or invalidate any existing permits under 45CSR13, 14 or 19, although all applicable requirements from such permits governing the facility's operation and compliance have been incorporated into the Title V Operating Permit.*

## Table of Contents

<b>1.0</b>	<b>Emission Units and Active R13, R14, and R19 Permits .....</b>	<b>3</b>
<b>2.0</b>	<b>General Conditions .....</b>	<b>5</b>
<b>3.0</b>	<b>Facility- Wide Requirements .....</b>	<b>13</b>
<b>4.0</b>	<b>Reserved .....</b>	<b>20</b>
<b>5.0</b>	<b>Source-Specific Requirements [Glycolic Acid] .....</b>	<b>21</b>
	<b>ATTACHMENT A (Formaldehyde Limits) .....</b>	<b><del>34</del>36</b>

## 1.0 Emission Units and Active R13, R14, and R19 Permits

### 1.1 Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
<b>Glycolic Acid</b>					
G003	252.003	Tank (No. 33)	2002	< 20,000 gal	
G004	N/A	Loading Facility			
G005	N/A	Tank	1982	< 20,000 gal	
G006	251.040	Formaldehyde Storage Tank	1944	< 20,000 gal	G040 or G028
G007	251.040	Tank	2015	< 20,000 gal	G040 or G028
G008	N/A	High pressure pump	1990		
G009	251.040	Reactor	1937		G040 or G028
G010	251.040	Separator	1991		G040 or G028
G011	N/A	Tank	1962	> 20,000 gal	
G012	N/A	Column	1987		
G013	N/A	Tank	1979	< 20,000 gal	
G014	N/A	Column	1979		
G015	N/A	Tank	1982	< 20,000 gal	
G016	N/A	Loading Facility	1985		
G019	N/A	Loading Facility	1985		
G021	N/A	Loading Facility	1985		
G022	251.020	Column	1999		G020
G023	N/A	Column	1987		
G024	N/A	Tank	2003	< 20,000 gal	
G017	N/A	Tank (No. 5)	1985	> 20,000 gal	
G018	N/A	Tank (No. 6)	1985	> 20,000 gal	
G025	N/A	Tank	2018	< 20,000 gal	
G026	N/A	Tank	2017	< 20,000 gal	
G027	N/A	Tank		< 20,000 gal	
G031	251.040	Heat Exchanger	Prior to 1970		G040 or G028
G032	251.040	Heat Exchanger	2005		G040 or G028
G033	251.040	Heat Exchanger	2014		G040 or G028

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
G034	251.040	High pressure pump	2005		G040 or G028
G035	251.040	High pressure pump	2014		G040 or G028
G036	251.040	High pressure pump	2019		G040 or G028
<b>Control Devices</b>					
G040	251.040	Thermal Oxidizer (6.7 MM BTU/hr)	1992	4,640 lbs/hr	
G028	251.040	Scrubber	1939		
G020	251.020	Condenser			

**1.2. Active R13, R14, and R19 Permits**

The underlying authority for any conditions from R13, R14, and/or R19 permits contained in this operating permit is cited using the original permit number (e.g. R13-1234). The current applicable version of such permit(s) is listed below.

Permit Number	Date of Issuance
R13-1534 <del>CD</del>	<del>4/21/2020</del> <u>09/29/2023</u>

## 2.0 General Conditions

### 2.1 Definitions

- 2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.39.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.
- 2.1.4. Unless otherwise specified in a permit condition or underlying rule or regulation, all references to a "rolling yearly total" shall mean the sum of the monthly data, values or parameters being measured, monitored, or recorded, at any given time for the previous twelve (12) consecutive calendar months.

### 2.2 Acronyms

<b>CAAA</b>	Clean Air Act Amendments	<b>NSPS</b>	New Source Performance Standards
<b>CBI</b>	Confidential Business Information		
<b>CEM</b>	Continuous Emission Monitor	<b>PM</b>	Particulate Matter
<b>CES</b>	Certified Emission Statement	<b>PM<sub>10</sub></b>	Particulate Matter less than 10µm in diameter
<b>C.F.R. or CFR</b>	Code of Federal Regulations		
<b>CO</b>	Carbon Monoxide	<b>pph</b>	Pounds per Hour
<b>C.S.R. or CSR</b>	Codes of State Rules	<b>ppm</b>	Parts per Million
<b>DAQ</b>	Division of Air Quality	<b>PSD</b>	Prevention of Significant Deterioration
<b>DEP</b>	Department of Environmental Protection	<b>psi</b>	Pounds per Square Inch
<b>FOIA</b>	Freedom of Information Act	<b>SIC</b>	Standard Industrial Classification
<b>HAP</b>	Hazardous Air Pollutant		
<b>HON</b>	Hazardous Organic NESHAP	<b>SIP</b>	State Implementation Plan
<b>HP</b>	Horsepower	<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>lbs/hr or lb/hr</b>	Pounds per Hour	<b>TAP</b>	Toxic Air Pollutant
<b>LDAR</b>	Leak Detection and Repair	<b>TPY</b>	Tons per Year
<b>m</b>	Thousand	<b>TRS</b>	Total Reduced Sulfur
<b>MACT</b>	Maximum Achievable Control Technology	<b>TSP</b>	Total Suspended Particulate
<b>mm</b>	Million	<b>USEPA</b>	United States Environmental Protection Agency
<b>mmBtu/hr</b>	Million British Thermal Units per Hour	<b>UTM</b>	Universal Transverse Mercator
<b>mmft<sup>3</sup>/hr or mmcf/hr</b>	Million Cubic Feet Burned per Hour	<b>VEE</b>	Visual Emissions Evaluation
<b>NA or N/A</b>	Not Applicable	<b>VOC</b>	Volatile Organic Compounds
<b>NAAQS</b>	National Ambient Air Quality Standards		
<b>NESHAPS</b>	National Emissions Standards for Hazardous Air Pollutants		
<b>NO<sub>x</sub></b>	Nitrogen Oxides		

### **2.3. Permit Expiration and Renewal**

- 2.3.1. Permit duration. This permit is issued for a fixed term of five (5) years and shall expire on the date specified on the cover of this permit, except as provided in 45CSR§30-6.3.b. and 45CSR§30-6.3.c.  
**[45CSR§30-5.1.b.]**
- 2.3.2. A permit renewal application is timely if it is submitted at least six (6) months prior to the date of permit expiration.  
**[45CSR§30-4.1.a.3.]**
- 2.3.3. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with 45CSR§30-6.2. and 45CSR§30-4.1.a.3.  
**[45CSR§30-6.3.b.]**
- 2.3.4. If the Secretary fails to take final action to deny or approve a timely and complete permit application before the end of the term of the previous permit, the 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.  
**[45CSR§30-6.3.c.]**

### **2.4. Permit Actions**

- 2.4.1. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.  
**[45CSR§30-5.1.f.3.]**

### **2.5. Reopening for Cause**

- 2.5.1. This permit shall be reopened and revised under any of the following circumstances:
- a. Additional applicable requirements under the Clean Air Act or the Secretary's legislative rules become applicable to a major source with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 45CSR§§30-6.6.a.1.A. or B.
  - b. Additional requirements (including excess emissions requirements) become applicable to an affected source under Title IV of the Clean Air Act (Acid Deposition Control) or other legislative rules of the Secretary. Upon approval by U.S. EPA, excess emissions offset plans shall be incorporated into the permit.
  - c. The Secretary or U.S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
  - d. The Secretary or U.S. EPA determines that the permit must be revised or revoked and reissued to assure compliance with the applicable requirements.

**[45CSR§30-6.6.a.]**

## **2.6. Administrative Permit Amendments**

- 2.6.1. The permittee may request an administrative permit amendment as defined in and according to the procedures specified in 45CSR§30-6.4.  
**[45CSR§30-6.4.]**

## **2.7. Minor Permit Modifications**

- 2.7.1. The permittee may request a minor permit modification as defined in and according to the procedures specified in 45CSR§30-6.5.a.  
**[45CSR§30-6.5.a.]**

## **2.8. Significant Permit Modification**

- 2.8.1. The permittee may request a significant permit modification, in accordance with 45CSR§30-6.5.b., for permit modifications that do not qualify for minor permit modifications or as administrative amendments.  
**[45CSR§30-6.5.b.]**

## **2.9. Emissions Trading**

- 2.9.1. 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 and that are in accordance with all applicable requirements.  
**[45CSR§30-5.1.h.]**

## **2.10. Off-Permit Changes**

- 2.10.1. Except as provided below, a facility may make any change in its operations or emissions that is not addressed nor prohibited in its permit and which is not considered to be construction nor modification under any rule promulgated by the Secretary without obtaining an amendment or modification of its permit. Such changes shall be subject to the following requirements and restrictions:
- a. The change must meet all applicable requirements and may not violate any existing permit term or condition.
  - b. The permittee must provide a written notice of the change to the Secretary and to U.S. EPA within two (2) business days following the date of the change. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.
  - c. The change shall not qualify for the permit shield.
  - d. The permittee shall keep records describing all changes made at the source that result in emissions of regulated air pollutants, but not otherwise regulated under the permit, and the emissions resulting from those changes.
  - e. No permittee may make any change subject to any requirement under Title IV of the Clean Air Act (Acid Deposition Control) pursuant to the provisions of 45CSR§30-5.9.



- f. No permittee may make any changes which would require preconstruction review under any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) pursuant to the provisions of 45CSR§30-5.9.

**[45CSR§30-5.9.]**

## **2.11. Operational Flexibility**

- 2.11.1. The permittee may make changes within the facility as provided by § 502(b)(10) of the Clean Air Act. Such operational flexibility shall be provided in the permit in conformance with the permit application and applicable requirements. No such changes shall be a modification under any rule or any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) promulgated by the Secretary in accordance with Title I of the Clean Air Act and the change shall not result in a level of emissions exceeding the emissions allowable under the permit.

**[45CSR§30-5.8]**

- 2.11.2. Before making a change under 45CSR§30-5.8., the permittee shall provide advance written notice to the Secretary and to U.S. EPA, describing the change to be made, the date on which the change will occur, any changes in emissions, and any permit terms and conditions that are affected. The permittee shall thereafter maintain a copy of the notice with the permit, and the Secretary shall place a copy with the permit in the public file. The written notice shall be provided to the Secretary and U.S. EPA at least seven (7) days prior to the date that the change is to be made, except that this 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. If less than seven (7) days notice is provided because of a need to respond more quickly to such unanticipated conditions, the permittee shall provide notice to the Secretary and U.S. EPA as soon as possible after learning of the need to make the change.

**[45CSR§30-5.8.a.]**

- 2.11.3. The permit shield shall not apply to changes made under 45CSR§30-5.8., except those provided for in 45CSR§30-5.8.d. However, the protection of the permit shield will continue to apply to operations and emissions that are not affected by the change, provided that the permittee complies with the terms and conditions of the permit applicable to such operations and emissions. The permit shield may be reinstated for emissions and operations affected by the change:

- a. If subsequent changes cause the facility's operations and emissions to revert to those authorized in the permit and the permittee resumes compliance with the terms and conditions of the permit, or
- b. If the permittee obtains final approval of a significant modification to the permit to incorporate the change in the permit.

**[45CSR§30-5.8.c.]**

- 2.11.4. "Section 502(b)(10) changes" are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.

**[45CSR§30-2.40]**

## 2.12. Reasonably Anticipated Operating Scenarios

2.12.1. The following are terms and conditions for reasonably anticipated operating scenarios identified in this permit.

- a. Contemporaneously with making a change from one operating scenario to another, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating and to document the change in reports submitted pursuant to the terms of this permit and 45CSR30.
- b. The permit shield shall extend to all terms and conditions under each such operating scenario; and
- c. The terms and conditions of each such alternative scenario shall meet all applicable requirements and the requirements of 45CSR30.

[45CSR§30-5.1.i.]

## 2.13. Duty to Comply

2.13.1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

[45CSR§30-5.1.f.1.]

## 2.14. Inspection and Entry

2.14.1. The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

- a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
- d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

[45CSR§30-5.3.b.]

## **2.15. Schedule of Compliance**

- 2.15.1. For sources subject to a compliance schedule, certified progress reports shall be submitted consistent with the applicable schedule of compliance set forth in this permit and 45CSR§30-4.3.h., but at least every six (6) months, and no greater than once a month, and shall include the following:
- 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; and
  - b. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measure adopted.

[45CSR§30-5.3.d.]

## **2.16. Need to Halt or Reduce Activity not a Defense**

- 2.16.1. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

[45CSR§30-5.1.f.2.]

## **2.17. Reserved**

## **2.18. Federally-Enforceable Requirements**

- 2.18.1. All terms and conditions in this permit, including any provisions designed to limit a source's potential to emit and excepting those provisions that are specifically designated in the permit as "State-enforceable only", are enforceable by the Secretary, USEPA, and citizens under the Clean Air Act.

[45CSR§30-5.2.a.]

- 2.18.2. Those provisions specifically designated in the permit as "State-enforceable only" shall become "Federally-enforceable" requirements upon SIP approval by the USEPA.

## **2.19. Duty to Provide Information**

- 2.19.1. The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records required to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

[45CSR§30-5.1.f.5.]

## **2.20. Duty to Supplement and Correct Information**

- 2.20.1. Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

[45CSR§30-4.2.]

## **2.21. Permit Shield**

- 2.21.1. Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance provided that such applicable requirements are included and are specifically identified in this permit or the Secretary has determined that other requirements specifically identified are not applicable to the source and this permit includes such a determination or a concise summary thereof.

[45CSR§30-5.6.a.]

- 2.21.2. Nothing in this permit shall alter or affect the following:

- a. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance; or
- b. The applicable requirements of the Code of West Virginia and Title IV of the Clean Air Act (Acid Deposition Control), consistent with § 408 (a) of the Clean Air Act.
- c. The authority of the Administrator of U.S. EPA to require information under § 114 of the Clean Air Act or to issue emergency orders under § 303 of the Clean Air Act.

[45CSR§30-5.6.c.]

## **2.22. Credible Evidence**

- 2.22.1. Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee including but not limited to any challenge to the credible evidence rule in the context of any future proceeding.

[45CSR§30-5.3.e.3.B.]

## **2.23. Severability**

- 2.23.1. The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid by a court of competent jurisdiction, the remaining permit terms and conditions or their application to other circumstances shall remain in full force and effect.

[45CSR§30-5.1.e.]

## **2.24. Property Rights**

- 2.24.1. This permit does not convey any property rights of any sort or any exclusive privilege.

[45CSR§30-5.1.f.4]

## 2.25. Acid Deposition Control

- 2.25.1. Emissions shall not exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act (Acid Deposition Control) or rules of the Secretary promulgated thereunder.
- a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid deposition control program, provided that such increases do not require a permit revision under any other applicable requirement.
  - b. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement.
  - c. Any such allowance shall be accounted for according to the procedures established in rules promulgated under Title IV of the Clean Air Act.

**[45CSR§30-5.1.d.]**

- 2.25.2. Where applicable requirements of the Clean Air Act are more stringent than any applicable requirement of regulations promulgated under Title IV of the Clean Air Act (Acid Deposition Control), both provisions shall be incorporated into the permit and shall be enforceable by the Secretary and U. S. EPA.

**[45CSR§30-5.1.a.2.]**

### 3.0 Facility-Wide Requirements

#### 3.1 Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person is prohibited except as noted in 45CSR§6-3.1.  
[45CSR§6-3.1.]
- 3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause or allow any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.  
[45CSR§6-3.2.]
- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.  
[40 C.F.R. §61.145(b) and 45CSR34]
- 3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.  
[45CSR§4-3.1 State-Enforceable only.]
- 3.1.5. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11.  
[45CSR§11-5.2]
- 3.1.6. **Emission inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality.  
[W.Va. Code § 22-5-4(a)(14)]
- 3.1.7. **Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.
  - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.
  - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161.

[40 C.F.R. 82, Subpart F]

- 3.1.8. **Risk Management Plan.** Should this stationary source, as defined in 40 C.F.R. § 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. § 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71.  
**[40 C.F.R. 68]**
- 3.1.9. The permitted facility shall be constructed and operated in accordance with information filed in Permit Applications R13-1534, R13-1534A, R13-1534B, R13-1534C, ~~R13-1534D~~ and any amendments thereto. The Director may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to.  
**[45CSR13, Permit No. R13-1534 -(Condition 2.5.1.)]**
- 3.1.10. All chemical processing units shall be properly instrumented to alert the operator of process upsets, leaks, and other abnormal discharges of toxic air pollutants into the air and the operator shall record all such incidents and the associated emissions estimated from direct measurements of toxic air pollutant concentration and/or calculations using other process measurements.  
**[45CSR§27-3.4, ~~CO-R27-91-40A~~ (State Enforceable Only)]**
- 3.1.11. All owners and operators subject to the requirements of this regulation shall, by application of BAT, prevent and control fugitive emissions to the air of toxic air pollutants as a result of leakage from equipment in toxic air pollutant service including but not limited to, pump seals, compressor seals, valves, sampling connections, open-ended lines, safety relief valves, and flanges. In no event shall any equipment standard, program, or work practice less stringent than required under 40CFR61, Subpart V be deemed to represent BAT for control of toxic air pollutant emissions: Provided, that any source or equipment specifically subject to a federal regulation or standard shall not be required to comply with provisions more stringent than such federal regulation or standard. Equipment to be used in toxic air pollutant service installed after the effective date of this regulation shall, to the maximum extent possible, be designed and operated so as to prevent leaks of toxic air pollutants.  
**[45CSR§27-4.1, ~~CO-R27-91-40A~~ (State Enforceable Only)]**
- 3.1.12. Owners and operators of chemical processing units or facilities subject to the requirements of this rule shall prevent and control working and filling losses of toxic air pollutants from tanks by routing such tank emissions to BAT control devices. The Director may approve the use of floating roof storage tanks as BAT, provided that such tanks are designed and operated in a manner which minimizes toxic air pollutant emissions taking into consideration the toxic air pollutant emission rate, tank size, and control efficiency associated with such tanks. On a case-by-case basis, the Director may exempt very small process or storage tanks or tanks storing material mixtures containing low mass fractions of toxic air pollutants from the BAT requirements taking into consideration the actual level of emissions control and/or the toxic air pollutant emission rate from the tank.  
**[45CSR§27-5.1, ~~CO-R27-91-40A~~ (State Enforceable Only)]**
- 3.1.13. Written records shall be maintained that identify all pumps, compressors, pressure relief valves, valves, sampling connections, open-ended lines, and flanges of a chemical processing unit that are in toxic air pollutant service. These records shall record the results of all monitoring and inspections, emissions control measures applied and the nature, timing, and results of repair efforts.  
**[45CSR§27-10.3, ~~CO-R27-91-40A~~ (State Enforceable Only)]**

3.1.14. The emission to the air of any toxic air pollutant resulting from an abnormal release or spill in excess of the following amounts shall be reported to the Director or his authorized representative not later than 24-hours after the chemical processing unit owner/operator has knowledge of such emission:

10.4.a. For ethylene oxide, and vinyl chloride, one (1) pound

10.4.b. For acrylonitrile and butadiene, ten (10) pounds

10.4.c. For all other toxic air pollutants, fifty (50) pounds.

The owner or operator shall file a written report with the Director stating the details of all such incidents resulting in the emission of more than fifty (50) pounds of any toxic air pollutant within seven (7) days of the occurrence. The owner/operator shall submit to the Director, at his request, records of all abnormal toxic air pollutant discharges to the air.

[45CSR§27-10.4, ~~CO-R27-91-40A~~ (State Enforceable Only)]

### 3.2. Monitoring Requirements

3.2.1. N/A

### 3.3. Testing Requirements

3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63, if applicable, in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable.
- b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit.
- c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests.



This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

- d. The permittee shall submit a report of the results of the stack test within 60 days of completion of the test. The test report shall provide the information necessary to document the objectives of the test and to determine whether proper procedures were used to accomplish these objectives. The report shall include the following: the certification described in paragraph 3.5.1; a statement of compliance status, also signed by a responsible official; and, a summary of conditions which form the basis for the compliance status evaluation. The summary of conditions shall include the following:
  1. The permit or rule evaluated, with the citation number and language.
  2. The result of the test for each permit or rule condition.
  3. A statement of compliance or non-compliance with each permit or rule condition.

[WV Code §§ 22-5-4(a)(14-15) and 45CSR13]

### 3.4. Recordkeeping Requirements

- 3.4.1. **Monitoring information.** The permittee shall keep records of monitoring information that include the following:
  - a. The date, place as defined in this permit and time of sampling or measurements;
  - b. The date(s) analyses were performed;
  - c. The company or entity that performed the analyses;
  - d. The analytical techniques or methods used;
  - e. The results of the analyses; and
  - f. The operating conditions existing at the time of sampling or measurement.

[45CSR13, Permit No. R13-1534 -(Condition 4.1.18); 45CSR§30-5.1.c.2.A.]

- 3.4.2. **Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, records may be maintained in computerized form in lieu of the above records.

[45CSR§30-5.1.c.2.B.]

- 3.4.3. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.

[45CSR§30-5.1.c. State-Enforceable only.]

### 3.5. Reporting Requirements

- 3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.  
**[45CSR§§30-4.4. and 5.1.c.3.D.]**
- 3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.  
**[45CSR§30-5.1.c.3.E.]**
- 3.5.3. Except for the electronic submittal of the annual compliance certification and semi-annual monitoring reports to the DAQ and USEPA as required in 3.5.5 and 3.5.6 below, all notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, or mailed first class or by private carrier with postage prepaid to the address(es), or submitted in electronic format by e-mail as set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

**DAQ:**

Director  
WVDEP  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

**US EPA:**

Section Chief  
U. S. Environmental Protection Agency,  
Region III  
Enforcement and Compliance Assurance  
Division  
Air, RCRA, and Toxics Branch (3ED21)  
Four Penn Center  
1600 John F. Kennedy Boulevard  
Philadelphia, PA 19103-2852

**DAQ Compliance and Enforcement<sup>1</sup>:**

DEPAirQualityReports@wv.gov

<sup>1</sup>For all self-monitoring reports (MACT, GACT, NSPS, etc.), stack tests and protocols, Notice of Compliance Status reports, Initial Notifications, etc.

- 3.5.4. **Fees.** The permittee shall pay fees on an annual basis in accordance with 45CSR§30-8.  
**[45CSR§30-8.]**
- 3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual

certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31.

The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification. The annual certification shall be submitted in electronic format by e-mail to the following addresses:

**DAQ:**  
DEPAirQualityReports@wv.gov

**US EPA:**  
R3\_APD\_Permits@epa.gov

[45CSR§30-5.3.e.]

- 3.5.6. **Semi-annual monitoring reports.** The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and on or before March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4. The semi-annual monitoring reports shall be submitted in electronic format by e-mail to the following address:

**DAQ:**  
DEPAirQualityReports@wv.gov

[45CSR§30-5.1.c.3.A.]

- 3.5.7. **Reserved.**

- 3.5.8. **Deviations.**

- a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:

1. Reserved.
2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or email. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.
3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.
4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

[45CSR§30-5.1.c.3.C.]

- b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventive measures taken in accordance with any rules of the Secretary.

[45CSR§30-5.1.c.3.B.]

- 3.5.9. **New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement.  
[45CSR§30-4.3.h.1.B.]

### 3.6. Compliance Plan

- 3.6.1. N/A

### 3.7. Permit Shield

- 3.7.1. The permittee is hereby granted a permit shield in accordance with 45CSR§30-5.6. The permit shield applies provided the permittee operates in accordance with the information contained within this permit.
- 3.7.2. The following requirements specifically identified are not applicable to the source based on the determinations set forth below. The permit shield shall apply to the following requirements provided the conditions of the determinations are met.

None

#### 4.0 Reserved

## 5.0 Source-Specific Requirements [Glycolic Acid]

### 5.1 Limitations and Standards

- 5.1.1. Inlet air pollutant feed rates to the thermal oxidizer (G040) (representing potential uncontrolled emissions) shall not exceed the following:

<u>Compound</u>	<u>lb/hr</u>	<u>ton/yr</u>
Formaldehyde	455.0	1,880.0
Methanol	192.0	774.0
Formic Acid	188.0	758.0
Carbon Monoxide	N/A	N/A

**[45CSR13, Permit No. R13-1534 -(Condition 4.1.1) (251.040)]**

- 5.1.2. Maximum allowable emissions to the atmosphere from the thermal oxidizer (G040) shall not exceed the hourly and annual limitations set forth below:

<u>Compound</u>	<u>lb/hr</u>	<u>ton/yr</u>
Formaldehyde	0.47	1.9
Methanol	3.84	15.5
Formic Acid	3.76	15.2
Carbon Monoxide	2.02	8.14
NO <sub>x</sub>	1.45	5.85

**[45CSR13, Permit No. R13-1534 -(Condition 4.1.2.) (251.040)]**

- 5.1.3. The following process source emission points shall vent directly to the thermal oxidizer (G040):  
formaldehyde storage (G006)

Glycolic Acid Unit flash chamber and knock-out pot (G010)

**[45CSR13, Permit No. R13-1534 -(Condition 4.1.3.) (251.040)]**

- 5.1.4. During those periods of time in which compounds listed under Condition 5.1.1 are being fed to the thermal oxidizer (G040), the following operational parameters or requirements shall be maintained:

- A. Minimum Thermal Oxidizer Operating Temperature: 1,400°F
- B. Minimum Oxygen in Thermal Oxidizer Exhaust: 3%, dry basis
- C. Thermal destruction efficiencies of not less than 98% for methanol and formic acid, not less than 99.99% for carbon monoxide, and not less than 99.5% for formaldehyde.

**[45CSR13, Permit No. R13-1534 -(Condition 4.1.4.) (251.040)]**

- 5.1.5. The permittee shall vent process-generated pollutants specified under Condition 5.1.1 and/or process-generated vent streams identified under Condition 5.1.3 to the thermal oxidizer (G040) at all times except in the following events:

- A. In any case of thermal oxidizer failure, the process emissions shall be switched out of the thermal oxidizer and into the process vent scrubber (G028). If after twenty (20) minutes the thermal oxidizer can not be restarted, the permittee shall stop the raw material feeds (formaldehyde and carbon monoxide) into the process. Except for formaldehyde storage tank breathing losses, emissions to the atmosphere during the 20-minute maximum period shall not exceed fifteen (15) pounds of formaldehyde and are excluded from Condition 5.1.2.

- B. Breathing losses from the formaldehyde storage tank (G006) shall not exceed 0.14 lb/day during routine maintenance or unexpected failure of the thermal oxidizer.

- C. During startup and shutdown of the synthesis process when organic emissions are negligible, the process shall be vented to the process vent scrubber.
- D. In order for the process to resume operation without the thermal oxidizer in service, the Company must obtain a variance in accordance with 45CSR27.  
**[45CSR13, Permit No. R13-1534 -(Condition 4.1.5.) (251.040)]**
- 5.1.6. During those periods of time when inlet gas streams to the thermal oxidizer (G040) contain any of those compounds identified under Condition 5.1.1, the thermal oxidizer shall be operated at a minimum temperature of 1,400°F.  
**[45CSR13, Permit No. R13-1534 -(Condition 4.1.6.) (251.040)]**
- 5.1.7. Except as specified in Conditions 5.1.5 and 5.1.28, the permittee shall operate the thermal oxidizer in accordance with weight emission limitations and operating parameter requirements set forth under this permit any time compounds set forth under Condition 5.1.1 of this permit are being introduced to the thermal oxidizer.  
**[45CSR13, Permit No. R13-1534 -(Condition 4.1.7.) (251.040)]**
- 5.1.8. In the event of an unavoidable malfunction, as specified under Condition 5.1.5, no transfers of liquid shall be made into the formaldehyde storage tank (G006) also specified under Condition 5.1.5.  
**[45CSR13, Permit No. R13-1534 -(Condition 4.1.8.) (251.040)]**
- 5.1.9. No person shall cause, suffer, allow or permit particulate matter to be discharged from the thermal oxidizer (G040) into the open air in excess of 12.6 lbs/hr.  
**[45CSR§6-4.1, 45CSR13, Permit No. R13-1534 -(Condition 4.1.9.) (251.040)]**
- 5.1.10. No person shall cause, suffer, allow or permit emission of smoke into the atmosphere from any incinerator which is twenty (20%) percent opacity or greater.  
**[45CSR§6-4.3, 45CSR13, Permit No. R13-1534 -(Condition 4.1.10.) (251.040)]**
- 5.1.11. The provisions of Condition 5.1.10 shall not apply to smoke which is less than forty (40%) percent opacity, for a period or periods aggregating no more than eight (8) minutes per start-up.  
**[45CSR§6-4.4, 45CSR13, Permit No. R13-1534 -(Condition 4.1.11.) (251.040)]**
- 5.1.12. No person shall cause, suffer, allow or permit the emission of particles of unburned or partially burned refuse or ash from any incinerator which are large enough to be individually distinguished in the open air.  
**[45CSR§6-4.5, 45CSR13, Permit No. R13-1534 -(Condition 4.1.12.) (251.040)]**
- 5.1.13. Incinerators, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent the emissions of objectionable odors.  
**[45CSR§6-4.6, 45CSR13, Permit No. R13-1534 -(Condition 4.1.13.) (251.040)]**
- 5.1.14. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20%) percent opacity.  
**[45CSR§7-3.1, 45CSR13, Permit No. R13-1534 -(Condition 4.1.14.) (251.040, 252.003)]**
- 5.1.15. The provisions of Condition 5.1.14 above shall not apply to smoke and/or particulate matter emitted from any process source operation which is less than forty (40%) percent opacity for any period or periods aggregating no more than five (5) minutes in any (60) minute period.  
**[45CSR§7-3.2, 45CSR13, Permit No. R13-1534 -(Condition 4.1.15.) (251.040, 252.003)]**
-

5.1.16. No person shall cause, suffer, allow, or permit emissions of smoke and/or particulate matter into the open air from any storage structure associated with any manufacturing process.

~~[45CSR§7-3.7, 45CSR13, Permit No. R13-1534 -(Condition 4.1.16.) (251.040, 252.003)]~~

5.1.17. No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable.

~~[45CSR§7-5.1, 45CSR13, Permit No. R13-1534 -(Condition 4.1.17.) (251.040, 252.003)]~~

5.1.18. The Permittee shall comply with the following limitations:

Emission Unit ID	Emission Point ID	Process Unit	Maximum Theoretical Emissions (MTE) of the Source (lbs/hr)	Control Device Description	Efficiency of Control Device	Maximum Allowable Hours of Operations (hrs/yr)	Maximum Allowable VOC Emissions	
							lb/hr	TPY
G010	251.040	Flasher	989.4	INC	99.2%	8760	8.07	32.6
G006		Tank						

INC – Incinerator

~~[CO-R21-97-31, Condition III.1. (251.040)45CSR13, Permit No. R13-1534-(Condition 4.1.20.) (State Enforceable Only)]~~

5.1.19. The Permittee shall comply with 45CSR§21-5.2 and 45CSR§21-9.3 with respect to all periods of non-compliance with Condition 5.1.18 resulting from unavoidable malfunctions of equipment.

~~[45CSR§21-5.2, 45CSR§21-9.3, CO-R21-97-31, Condition III.3. (G010 and G006) (State Enforceable Only)]~~

5.1.20. Emissions to the air of formaldehyde from the emission points or sources listed in Attachment A shall not exceed the limitations listed in Attachment A.

~~[CO-R27-92-45A(91), Condition III.2.45CSR13, Permit No. R13-1534-(Condition 4.1.21.) (State Enforceable Only) ]~~

5.1.21. The Leak Detection and Repair Program (“LDAR”) shall include the provisions of Appendix B of the Announcement of Negotiated Regulation for Equipment Leaks published on March 6, 1991.

~~[CO-R27-92-45A(91), Condition III.3.45CSR13, Permit No. R13-1534-(Condition 4.1.22.) (State Enforceable Only)]~~

5.1.22. If the emission of any TAP other than Methylene Chloride or Formaldehyde in the Glycolic Acid Process is discovered by the Permittee, the Permittee shall notify the Director within fifteen (15) days of such discovery. Unless a waiver is given by the Director, the Permittee shall submit a BAT Plan for control of this emission within sixty (60) days of the date of notification.

~~[CO-R27-92-45A(91), Condition III.4.45CSR13, Permit No. R13-1534-(Condition 4.1.23.) (State Enforceable Only)]~~



- 5.1.23. The Permittee shall operate all control equipment when the production unit is in operation, except for periods of emergency repairs for the control equipment and/or control equipment failures beyond the reasonable control of the Permittee. In the event that the control equipment is inoperable, the associated production unit shall be shut down as expeditiously as possible. The Permittee shall not begin operation of the production unit when the control equipment is not in operation without being granted a variance pursuant to Section 12.1 of Regulation 27.

~~[CO-R27-92-45A(91), Condition IV.9, and IV.10, 45CSR13, Permit No. R13-1534-(Condition 4.1.24.) (State Enforceable Only)]~~

- 5.1.24. Unless otherwise expressly exempted from Leak Detection and Repair (LDAR) requirements in this Permit, the Permittee shall implement and maintain LDAR programs for the reduction of fugitive VOC emissions in all facility manufacturing process units subject to 45CSR§21-40 producing a product or products intermediate or final, in excess of 1000 megagrams (1100 tons) per year in accordance with 45CSR§21-37 or alternative procedures approved by the Director. This requirement shall apply to all units irrespective of whether or not such units produce as intermediates or final products, substances on the lists contained within 40CFR Part 60, 61, or 63.

Exempted units include:

Glycolic Acid (excluding components subject to Regulation 27 Consent Order):

Excluded components:

G006 – Tank

G008 - High Pressure Pump

G009 – Reactor

G010 – Separator

G022 – Column

G040 – Thermal Oxidizer

G028 – Scrubber

G020 – Condenser

Although the above listed units are exempted from the frequency of testing as described in 45CSR§21-37, LDAR testing of these units will be required every three years, or upon request by the Director or his or her duly authorized representative. Waiver or rescheduling of LDAR testing every three years may be granted by the Director if a written request and justification are submitted by the Permittee. Units exempted from LDAR monitoring as required by 45CSR§21-37, are not exempted from testing which may be required under any other applicable State or Federal regulations, orders, or permits. The Director may periodically require verification by the facility that maintenance and repair procedures associated with approved exemptions are continued and practiced.

~~[CO-R21-97-31, Condition III.2, (Fugitive) 45CSR13, Permit No. R13-1534-(Condition 4.1.25.) (State Enforceable Only)]~~

- 5.1.25. For all equipment that is in organic HAP service, the Permittee shall comply with the requirements of 40 CFR 63 Subpart H and the requirements referenced therein, except as specified in (b) and (d) below:

(b) If you comply with either subpart H or subpart UU of this part 63, you may elect to comply with the provisions in paragraphs (b)(1) through (5) of this section as an alternative to the referenced provisions in subpart H or subpart UU of this part.

(1) The requirements for pressure testing in 40CFR§63.179(b) or 40CFR§63.1036(b) may be applied to all processes, not just batch processes.

(2) For the purposes of this subpart, pressure testing for leaks in accordance with 40CFR§63.179(b) or 40CFR§63.1036(b) is not required after reconfiguration of an equipment train if flexible hose connections are the only disturbed equipment.

(3) For an existing source, you are not required to develop an initial list of identification numbers for connectors as would otherwise be required under 40CFR§63.1022(b)(1) or 40CFR§63.181(b)(1)(i).

(4) For connectors in gas/vapor and light liquid service at an existing source, you may elect to comply with the requirements in 40CFR§63.169 or 40CFR§63.1029 for connectors in heavy liquid service, including all associated recordkeeping and reporting requirements, rather than the requirements of 40CFR§63.174 or 40CFR§63.1027.

(5) For pumps in light liquid service in an MCPU that has no continuous process vents and is part of an existing source, you may elect to consider the leak definition that defines a leak to be 10,000 parts per million (ppm) or greater as an alternative to the values specified in 40CFR§63.1026(b)(2)(i) through (iii) or 40CFR§63.163(b)(2).

(d) The provisions of this section do not apply to bench-scale processes, regardless of whether the processes are located at the same plant site as a process subject to the provisions of this subpart.

**[45CSR34; 40CFR§§63.2480 (a), (b), and (d)]**

5.1.26. For each Group 1 Continuous Process Vent not using a flare as a control device, the Permittee shall reduce emissions of total organic HAP by  $\geq 98$  percent by weight or to an outlet process concentration  $\leq 20$  ppmv as organic HAP or TOC by venting emissions through a closed-vent system to any combination of control devices (except a flare), as well as complying with the following:

(b) For each continuous process vent, you must either designate the vent as a Group 1 continuous process vent or determine the total resource effectiveness (TRE) index value as specified in 40CFR§63.115(d), except as specified in paragraphs (b)(1) through (3) of this section.

(1) You are not required to determine the Group status or the TRE index value for any continuous process vent that is combined with Group 1 batch process vents before a control device or recovery device because the requirements of 40CFR§63.2450(c)(2)(i) apply to the combined stream.

(2) When a TRE index value of 4.0 is referred to in 40CFR§63.115(d), TRE index values of 5.0 for existing affected sources and 8.0 for new and reconstructed affected sources apply for the purposes of this subpart.

(3) When 40CFR§63.115(d) refers to “emission reductions specified in 40CFR§63.113(a),” the reductions specified in Table 1 to this subpart apply for the purposes of this subpart.

(c) If you use a recovery device to maintain the TRE above a specified threshold, you must meet the requirements of 40CFR§63.982(e) and the requirements referenced therein, except as specified in 40CFR§63.2450 and paragraph (c)(1) of this section.

(1) When 40CFR§63.993 uses the phrase “the TRE index value is between the level specified in a referencing subpart and 4.0,” the phrase “the TRE index value is  $>1.9$  but  $\leq 5.0$ ” applies for an existing affected source, and the phrase “the TRE index value is  $>5.0$  but  $\leq 8.0$ ” applies for a new and reconstructed affected source, for the purposes of this subpart.

**[45CSR34; 40CFR§§63.2455 (a), (b), and (c) (251.040)]**

5.1.27. The provisions of this permit shall not relieve the permittee from the requirement to comply with any provisions of amended consent order CO-R27-92-45A(91).

**[45CSR13, Permit No. R13-1534 -(Condition 4.1.18)]**

- 5.1.28. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.

**[45CSR§13-5.10.; 45CSR13, Permit No. R13-1534 -(Condition 4.1.19)]**

## 5.2. Monitoring Requirements

- 5.2.1. The permittee shall install, calibrate and maintain in good working condition:

- A. Instrumentation to continuously monitor and record thermal oxidizer operating temperature.
- B. Instrumentation to continuously monitor the flame and shut off natural gas and waste gas flows upon a loss of flame signal.

These records shall be properly maintained and be readily available to the Director, or his or her designated representative, upon request.

**[45CSR13, Permit No. R13-1534 -(Condition 4.2.1.) (251.040)]**

- 5.2.2. The permittee shall have and follow a written operating procedure for thermal oxidizer (G040) that ensures that the thermal oxidizer operates safely in an oxygen rich environment.

**[45CSR13, Permit No. R13-1534 -(Condition 4.2.2.) (251.040)]**

- 5.2.3. The permittee shall maintain LDAR programs for the reduction of fugitive VOC emissions in all facility manufacturing process units subject to 45CSR§45-21-40 producing products intermediate or final, in excess of 1,000 megagrams (1,100 tons) per year in accordance with the applicable methods and criteria of 45CSR§21-37, or alternative procedures approved by the Director.

LDAR testing is required every three years, or upon request by the Director or his or her duly authorized representative. The Director may grant waiver or rescheduling of LDAR testing every three years if the Permittee submits a written request and justification.

~~[CO-R21-97-31, Condition III.2.45CSR13, Permit No. R13-1534 -(Condition 4.2.3.) (251.020, 251.040)~~  
**(State Enforceable Only)]**

- 5.2.4. At least monthly, visual emission checks of each emission point subject to a 45CSR7 opacity limit shall be conducted. For units emitting directly into the open air from points other than a stack outlet, visible emissions are to include visible fugitive dust emissions that leave the plant site boundaries. These checks shall be conducted during periods of normal facility operation for a sufficient time interval to determine if the unit has visible emissions using procedures outlined in 40 CFR 60, Appendix A, Method 22. If sources of visible emissions are identified during the survey, or at any other time, the permittee shall conduct an evaluation as outlined in 45CSR§7A-2.1.a,b within twenty-four (24) hours. However, a 45CSR§7A-2.1.a,b evaluation shall not be required more than once per month per emission unit. A 45CSR§7A-2.1.a,b evaluation shall not be required if the visible emission condition is corrected within 24 hours and the units are operated at normal operating conditions. A record of each visible emission check required above shall be maintained on site. Said record shall include, but not be limited to, the date, time, name of emission unit, the applicable visible emissions requirement, the results of the check, what action(s), if any, was/were taken, and the name of the observer.

**[45CSR§7A-2.1a,b and 45CSR§30-5.1.c. (252.003)]**

- 5.2.5. At least monthly, visual emission checks of each emission point subject to an opacity limit shall be conducted. For the purpose of these checks, excess visible emissions are to include visible fugitive dust emissions that leave the plant site boundaries.

These checks shall be conducted during periods of normal facility operation for a sufficient time interval to determine if the unit has visible emissions using procedures outlined in 40 CFR 60, Appendix A, Method 22. If sources of visible emissions are identified during the survey, or at any other time, the permittee shall conduct a 40 CFR 60, Appendix A, Method 9 evaluation within twenty-four (24) hours. A Method 9 evaluation shall not be required if the visible emission condition is corrected within 25 hours and the units are operated at normal operating conditions. A record of each visible emission check required above shall be maintained on site. Said record shall include, but not be limited to, the date, time, name of emission unit, the applicable visible emissions requirement, the results of the check, what action(s), if any, was/were taken, and the name of the observer.

**[45CSR§30-5.1.c. (251.040)]**

- 5.2.6. To show compliance with the Group 1 Continuous Process and Batch Vent Standards, as given in Conditions 5.1.26 for the Thermal Oxidizer G040 (251.040), the Permittee shall maintain the operating temperature >1,400°F as established in the Notification of Compliance Status (NOCS) Report dated October 7, 2008.

**[45CSR34, 40CFR§63.2450(e)]**

### **5.3. Testing Requirements**

N/A

### **5.4. Recordkeeping Requirements**

- 5.4.1. The owner or operator shall keep copies of all records required by Condition 5.4.3 for at least 2 years. The record required by Condition 5.4.2 will be kept for the life of the source.

**[45CSR16, 40CFR§60.116b(a) (G017, G018)]**

- 5.4.2. The owner or operator of each storage vessel as specified in Condition 5.4.1 of this permit shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.

**[45CSR16, 40CFR§60.116b(b) (G017, G018)]**

- 5.4.3. Except as provided in 40 CFR§60.116b(f) and (g), the owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure greater than or equal to 3.5 kPa or with a design capacity greater than or equal to 75 m<sup>3</sup> but less than 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure greater than or equal to 15.0 kPa shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.

**[45CSR16, 40CFR§60.116b(c) (G017, G018)]**

- 5.4.4. The Permittee shall keep the records specified in paragraphs (a) through (k) of this section.

(a) Each applicable record required by subpart A of this part 63 and in referenced subparts F, G, SS, UU, WW, and GGG of this part 63 and in referenced subpart F of 40 CFR part 65.

(b) Records of each operating scenario as specified in paragraphs (b)(1) through (8) of this section.

(1) A description of the process and the type of process equipment used.

- (2) An identification of related process vents, including their associated emissions episodes if not complying with the alternative standard in 40CFR §63.2505; wastewater point of determination (POD); storage tanks; and transfer racks.
  - (3) The applicable control requirements of this subpart, including the level of required control, and for vents, the level of control for each vent.
  - (4) The control device or treatment process used, as applicable, including a description of operating and/or testing conditions for any associated control device.
  - (5) The process vents, wastewater POD, transfer racks, and storage tanks (including those from other processes) that are simultaneously routed to the control device or treatment process(s).
  - (6) The applicable monitoring requirements of this subpart and any parametric level that assures compliance for all emissions routed to the control device or treatment process.
  - (7) Calculations and engineering analyses required to demonstrate compliance.
  - (8) For reporting purposes, a change to any of these elements not previously reported, except for paragraph (b)(5) of this section, constitutes a new operating scenario.
- (c) A schedule or log of operating scenarios for processes with batch vents from batch operations updated each time a different operating scenario is put into effect.
  - (d) The information specified in paragraphs (d)(1) and (2) of this section for Group 1 batch process vents in compliance with a percent reduction emission limit in Table 2 to this subpart if some of the vents are controlled to less the percent reduction requirement.
    - (1) Records of whether each batch operated was considered a standard batch.
    - (2) The estimated uncontrolled and controlled emissions for each batch that is considered to be a nonstandard batch.
  - (e) The information specified in paragraph (e)(2), (3), or (4) of this section, as applicable, for each process with Group 2 batch process vents or uncontrolled hydrogen halide and halogen HAP emissions from the sum of all batch and continuous process vents less than 1,000 lb/yr. No records are required for situations described in paragraph (e)(1) of this section.
    - (1) No records are required if you documented in your notification of compliance status report that the MCPU meets any of the situations described in paragraph (e)(1)(i), (ii), or (iii) of this section.
      - (i) The MCPU does not process, use, or generate HAP.
      - (ii) You control the Group 2 batch process vents using a flare that meets the requirements of 40CFR §63.987.
      - (iii) You control the Group 2 batch process vents using a control device for which your determination of worst case for initial compliance includes the contribution of all Group 2 batch process vents.
    - (2) If you documented in your notification of compliance status report that an MCPU has Group 2 batch process vents because the non-reactive organic HAP is the only HAP and usage is less than 10,000 lb/yr, as specified in 40CFR §63.2460(b)(7), you must keep records of the amount of HAP material used, and calculate the daily rolling annual sum of the amount used no less frequently than monthly. If a record indicates usage exceeds 10,000 lb/yr, you must estimate emissions for the preceding 12 months based on the number of batches operated and the estimated emissions for a standard batch, and you must begin recordkeeping as specified in paragraph (e)(4) of this section. After 1 year, you may revert to recording only usage if the usage during the year is less than 10,000 lb.

(3) If you documented in your notification of compliance status report that total uncontrolled organic HAP emissions from the batch process vents in an MCPU will be less than 1,000 lb/yr for the anticipated number of standard batches, then you must keep records of the number of batches operated and calculate a daily rolling annual sum of batches operated no less frequently than monthly. If the number of batches operated results in organic HAP emissions that exceed 1,000 lb/yr, you must estimate emissions for the preceding 12 months based on the number of batches operated and the estimated emissions for a standard batch, and you must begin recordkeeping as specified in paragraph (e)(4) of this section. After 1 year, you may revert to recording only the number of batches if the number of batches operated during the year results in less than 1,000 lb of organic HAP emissions.

(4) If you meet none of the conditions specified in paragraphs (e)(1) through (3) of this section, you must keep records of the information specified in paragraphs (e)(4)(i) through (iv) of this section.

(i) A record of the day each batch was completed and/or the operating hours per day for continuous operations with hydrogen halide and halogen emissions.

(ii) A record of whether each batch operated was considered a standard batch.

(iii) The estimated uncontrolled and controlled emissions for each batch that is considered to be a nonstandard batch.

(iv) Records of the daily 365-day rolling summations of emissions, or alternative records that correlate to the emissions (e.g., number of batches), calculated no less frequently than monthly.

(f) A record of each time a safety device is opened to avoid unsafe conditions in accordance with 40CFR §63.2450(s).

(g) Records of the results of each CPMS calibration check and the maintenance performed, as specified in 40CFR §63.2450(k)(1).

(h) For each CEMS, you must keep records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(i) For each PUG, you must keep records specified in paragraphs (i)(1) through (5) of this section.

(1) Descriptions of the MCPU and other process units in the initial PUG required by 40CFR §63.2535(l)(1)(v).

(2) Rationale for including each MCPU and other process unit in the initial PUG (*i.e.*, identify the overlapping equipment between process units) required by 40CFR §63.2535(l)(1)(v).

(3) Calculations used to determine the primary product for the initial PUG required by 40CFR §63.2535(l)(2)(iv).

(4) Descriptions of process units added to the PUG after the creation date and rationale for including the additional process units in the PUG as required by 40CFR §63.2535(l)(1)(v).

(5) The calculation of each primary product redetermination required by 40CFR §63.2535(l)(2)(iv).

(j) In the SSMP required by 40CFR §63.6(e)(3), you are not required to include Group 2 emission points, unless those emission points are used in an emissions average. For equipment leaks, the SSMP requirement is limited to control devices and is optional for other equipment.

(k) For each bag leak detector used to monitor PM HAP emissions from a fabric filter, maintain records of any bag leak detection alarm, including the date and time, with a brief explanation of the cause of the alarm and the corrective action taken.

**[45CSR34; 40CFR§§63.2525(a-k)]**

5.4.5. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.0, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.  
**[45CSR13, Permit No. R13-1534 -(Condition 4.4.2.)]**

5.4.6. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:

- a. The equipment involved.
- b. Steps taken to minimize emissions during the event.
- c. The duration of the event.
- d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded:

- e. The cause of the malfunction.
- f. Steps taken to correct the malfunction.
- g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.

**[45CSR13, Permit No. R13-1534 -(Condition 4.4.3.)]**

## 5.5. Reporting Requirements

5.5.1. The permittee shall file reports on a quarterly basis which identify all periods of time during which compliance was not achieved with the following operating parameters:

Minimum Thermal Oxidizer Operating Temperature: 1400°F

Minimum Oxygen in Afterburner Exhaust: 3% dry basis

In any such aforementioned period of time, the permittee shall provide information detailing reasons for such excursions and corrective action taken. Such reports shall be filed no later than thirty (30) days from the end of each calendar quarter (i.e. April 30, July 30, October 30, and January 30).

**[45CSR13, Permit No. R13-1534 -(Condition 4.5.1.) (251.040)]**

5.5.2. **40CFR63, Subpart FFFF Requirements for Group 2 Emission Points with a TRE index value greater than 1.9.** If a Group 2 emission point becomes a Group 1 emission point after the compliance date for the affected source, the emission point must comply with the Group 1 requirements beginning on the date the switch occurs. An initial compliance demonstration as specified in this subpart must be conducted within 150 days after the switch occurs.

**[45CSR34; 40CFR§63.2445(d)]**

5.5.3. **40CFR63, Subpart FFFF Requirements for Notification of Process Change.** Except as specified in 5.5.3.2 below, whenever a process change is made or any change to the information submitted in the notification of compliance status report or a previous compliance report that is not within the scope of an existing operating scenario, the change must be documented in the compliance report.

A process change does not include moving within a range of conditions identified in the standard batch and a nonstandard batch does not constitute a process change.

5.5.3.1 The notification must include all of the following information:

- (A) A description of the process change.
- (B) Revisions to any of the information reported in the original notification of compliance status report under 40CFR§63.2520(d).
- (C) Information required by the notification of compliance status report under 40CFR§63.2520(d) for changes involving the addition of processes or equipment at the affected source.

5.5.3.2 You must submit a report 60 days before the scheduled implementation date of any of the changes identified below:

- (A) Any change to the information contained in the pre-compliance report.
- (B) A change in the status of a control device from small to large.
- (C) A change from Group 2 to Group 1 for any emission point except for batch process vents that meet the conditions specified in 40CFR§63.2460(b)(6)(i).

**[45CSR34; 40CFR§63.2520(e)(10)]**

5.5.4. (a) You must submit all of the notifications in 40CFR§§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply to you by the dates specified.

(c) *Notification of performance test.* If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in 40CFR §63.7(b)(1). For any performance test required as part of the initial compliance procedures for batch process vents in 40CFR63 Subpart FFFF Table 2, you must also submit the test plan required by 40CFR §63.7(c) and the emission profile with the notification of the performance test.

**[45CSR34; 40CFR§§63.2515 (a) and (c)]**

5.5.5. The reporting timeline requirements for the compliance reports is as follows:

Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

Each subsequent compliance report must be postmarked or delivered no later than August 31 or February 28, whichever date is the first date following the end of the semiannual reporting period.

For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in 40CFR§§63.2520(b)(1) through (4).

**[45CSR34; 40CFR§§63.2520(b)(3), (4), and (5)]**

These compliance reports must include the following information specified in paragraphs (1) through (10) below:

- (1) Company name and address.



- (2) Statement by a responsible official with that official's name, title, and signature, certifying the accuracy of the content of the report.
- (3) Date of report and beginning and ending dates of the reporting period.
- (4) For each SSM during which excess emissions occur, the compliance report must include records that the procedures specified in your startup, shutdown, and malfunction plan (SSMP) were followed or documentation of actions taken that are not consistent with the SSMP, and include a brief description of each malfunction.
- (5) The compliance report must contain the information on deviations, as defined in 40CFR§63.2550, according to paragraphs (5)(i), (ii), (iii), and (iv) of this section.
  - (i) If there are no deviations from any emission limit, operating limit or work practice standard specified in this subpart, include a statement that there were no deviations from the emission limits, operating limits, or work practice standards during the reporting period.
  - (ii) For each deviation from an emission limit, operating limit, and work practice standard that occurs at an affected source where you are not using a continuous monitoring system (CMS) to comply with the emission limit or work practice standard in this subpart, you must include the information in paragraphs (5)(ii)(A) through (C) of this section. This includes periods of SSM.
    - (A) The total operating time of the affected source during the reporting period.
    - (B) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.
    - (C) Operating logs of processes with batch vents from batch operations for the day(s) during which the deviation occurred, except operating logs are not required for deviations of the work practice standards for equipment leaks.
  - (iii) For each deviation from an emission limit or operating limit occurring at an affected source where you are using a CMS to comply with an emission limit in this subpart, you must include the information in paragraphs (5)(iii)(A) through (L) of this section. This includes periods of SSM.
    - (A) The date and time that each CMS was inoperative, except for zero (low-level) and high-level checks.
    - (B) The date, time, and duration that each CEMS was out-of-control, including the information in 40CFR§63.8(c)(8).
    - (C) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.
    - (D) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total operating time of the affected source during that reporting period.
    - (E) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.
    - (F) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the affected source during that reporting period.
    - (G) An identification of each HAP that is known to be in the emission stream.
    - (H) A brief description of the process units.

- (I) A brief description of the CMS.
- (J) The date of the latest CMS certification or audit.
- (K) Operating logs of processes with batch vents from batch operations for each day(s) during which the deviation occurred.
- (L) The operating day or operating block average values of monitored parameters for each day(s) during which the deviation occurred.
- (iv) If you documented in your notification of compliance status report that an MCPU has Group 2 batch process vents because the non-reactive HAP is the only HAP and usage is less than 10,000 lb/yr, the total uncontrolled organic HAP emissions from the batch process vents in an MCPU will be less than 1,000 lb/yr for the anticipated number of standard batches, or total uncontrolled hydrogen halide and halogen HAP emissions from all batch process vents and continuous process vents in a process are less than 1,000 lb/yr, include the records associated with each calculation required by 40CFR §63.2525(e) that exceeds an applicable HAP usage or emissions threshold.
- (6) If you use a CEMS, and there were no periods during which it was out-of-control as specified in 40CFR §63.8(c)(7), include a statement that there were no periods during which the CEMS was out-of-control during the reporting period.
- (7) Include each new operating scenario which has been operated since the time period covered by the last compliance report and has not been submitted in the notification of compliance status report or a previous compliance report. For each new operating scenario, you must provide verification that the operating conditions for any associated control or treatment device have not been exceeded and that any required calculations and engineering analyses have been performed. For the purposes of this paragraph, a revised operating scenario for an existing process is considered to be a new operating scenario.
- (8) Records of process units added to a PUG as specified in 40CFR §63.2525(i)(4) and records of primary product redeterminations as specified in 40CFR §63.2525(i)(5).
- (9) Applicable records and information for periodic reports as specified in referenced subparts F, G, H, SS, UU, WW, and GGG of this part and subpart F of 40 CFR part 65.
- (10) *Notification of process change.* (i) Except as specified in paragraph (10)(ii) of this section, whenever you make a process change, or change any of the information submitted in the notification of compliance status report or a previous compliance report, that is not within the scope of an existing operating scenario, you must document the change in your compliance report. A process change does not include moving within a range of conditions identified in the standard batch, and a nonstandard batch does not constitute a process change. The notification must include all of the information in paragraphs (10)(i)(A) through (C) of this section.
  - (A) A description of the process change.
  - (B) Revisions to any of the information reported in the original notification of compliance status report under 40CFR §63.2520(d).
  - (C) Information required by the notification of compliance status report under 40CFR §63.2520(d) for changes involving the addition of processes or equipment at the affected source.
- (ii) You must submit a report 60 days before the scheduled implementation date of any of the changes identified in paragraph (10)(ii)(A), (B), or (C) of this section.
  - (A) Any change to the information contained in the precompliance report.

(B) A change in the status of a control device from small to large.

(C) A change from Group 2 to Group 1 for any emission point except for batch process vents that meet the conditions specified in 40CFR§63.2460(b)(6)(i).

[45CSR34; 40CFR§§63.2520(e)(1-10)]

**5.6. Compliance Plan**

N/A

# Attachment A

**CO-R27-92-45A:R13-1534**

Formaldehyde Limits

## Attachment **BA**

### Allowable Emissions After Completion of Compliance Plan

#### Methylene Chloride

Item	Point(s) of Emission <sup>a</sup>	Regulated 27 Registration Emissions lb/yr	Company's Proposed Emissions After BAT		Compliance Determination Method
			lb/hr	lb/yr	
1. (A) Shut down Sodium Styrene Sulfonate Unit	All Point Sources	233,000	0	0	Shut down
	All Fugitives		0	0	Shut down
<u>Formaldehyde</u>					
(B) Shut down Formaldehyde Process	(241, 242, 243)	35,420	0	0	Shut down
	Fugitives	63,140	0	0	Shut down
2. Operate Incinerator	251.000	30	0.47	3241	Conduct Stack Test Efficiency Times TAP Concentration Determined By GL-C Time Flow Rate
3. Install High Pressure	Fugitives	2,000	0.002	20	Flowrate Times Pumps Concentration Times Emission Factor
	Waste water Emissions	3,000			
4. Flasher/Incinerator	Process Waste Water Emissions	25,640	0.023	162	Flowrate Times Concentration Times Emission Factor
5. LDAR	Area 251	1,070	0.024	214	Leaker Count Times Leak Rate Times Duration
Total		130,300	0.519	3637	

a Process ID's and Emission Points as Described in Company's 1990 TAP Registration and per Company's Compliance Plan Submitted on June 28, 1991 and Subsequent Modifications.