West Virginia Department of Environmental Protection
Division of Air Quality

Joe Manchin, III
Governor

Randy C. Huffman
Cabinet Secretary

Permit to Operate

Pursuant to

Title V

of the Clean Air Act

Issued to:
Bayer CropScience
Institute Site
(Carbofuran/Carbosulfan)
R30-03900007-2010 (3 of 8)

John A. Benedict
Director

Issued: April 21, 2010 • Effective: May 5, 2010
Expiration: April 21, 2015 • Renewal Application Due: October 21, 2014

Permit Number: **R30-03900007-2010**
Permittee: **Bayer CropScience, LP**
Facility Name: **Institute Site**
Mailing Address: **P.O. Box 1005**
Charleston, WV 25112

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.

Facility Location:	Institute, Kanawha County, West Virginia
Mailing Address:	**P.O. Box 1005** **Charleston, WV 25112**
Telephone Number:	304-767-6148
Type of Business Entity:	Corporation
Facility Description:	Manufacture of liquid Carbosulfan and solid Carbofuran pesticides
SIC Codes:	2879
UTM Coordinates:	432.0 km Easting • 4248.310 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.

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

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
Carbofuran					
D-503	320E	7-OH Storage Tank	1985	39,600 gal	N/A
C-100	320A	Reactor	1985	1,057 gal	A-3203 A-3205
C-103	320A	Coolant Tank (DCM)	1985	500 gal	A-3203 A-3205
C-152	320A	7-OH Scrubber	1985	1,500 gal	A-3201 A-3203 A-3205
Y-301	320A	Horizontal Solids Blender	1985	285 ft^3	A-3203 A-3205 A-3206
C-213	320F	DCM Storage Tank	1985	8,000 gal	N/A
C-273A/B	320G	Wastewater Pretreatment Tanks	1985	6,894 gal	N/A
C-162	320A	Spent Carbon Wash Tank	1985	900 gal	A-3203
D-510	320I	Spent Carbon Storage Tanks	1985	7,600 gal	N/A
L-10TT	320E	Bulk Liquid Unloading Rack	1985	5,000 gal	N/A
D-270	320G	Wastewater Collection Sump	1985	5,000 gal	N/A
Control Device					
A-3201	320A	Normal Vent Carbon Beds	1985	1,400 lbs	A-3203, A-3205
A-3203	320A	Emergency Caustic Scrubber (Packed bed)	1985	4,000 gal	A-3205
A-3204	320A	Ventilation Caustic Scrubber	1985	6,000 gal	A-3205
A-3205	320A	Ventilation Carbon Beds	1985	13,600 lbs	N/A
A-3206	320A	Baghouse	1985	78 ft^2 cloth	A-3203
320B	320B	Baghouse	1985	292 ft^2 cloth	A-3203

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
Carbosulfan					
C-1342	320K	Decanter	1989	175 gal	E-1302 C-1304/05/06
X-1346	320K	Coalescer	1989	17.67 gal	N/A
N/A	320M	Step I Recovery Drum	1989	55 gal	N/A
N/A	320N	1206 Interphase Drum	1989	55 gal	N/A
N/A	320P	1240 Bottoms Drum	1989	55 gal	N/A
N/A	320Q	1216 Interphase Drum	1989	55 gal	N/A
N/A	320R	CS Product Drum	1989	55 gal 15 gal	N/A
C-1330	320K	Column Feed Tank	1989	5,500 gal	E-1302 C-1304/05/06
C-1340	320K	Extraction Column	1989	440 gal	E-1302 C-1304/05/06
C-1341	320K	Mix Tank	1989	150 gal	E-1302 C-1304/05/06
C-1201	320K	Storage Tank	1989	5,246 gal	E-1302 C-1304/05/06
C-1205	320K	Feed Tank	1989	836 gal	E-1302 C-1304/05/06
C-1206	320K	Step I/II Reactor	1989	2,204 gal	E-1302 C-1304/05/06
C-1209	320K	Step I Vacuum Receiver	1989	1,192 gal	E-1302 C-1304/05/06
C-1239	320K	Step I Decanter	1989	4,406 gal	E-1302 C-1304/05/06
C-1210	320K	Hold Tank	1989	2,126 gal	E-1302 C-1304/05/06
C-1213	320K	Step III Reactor	1989	4,406 gal	E-1302 C-1304/05/06

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
C-1216	320K	Product Stripper	1989	2,204 gal	E-1302 C-1304/05/06
C-1219	320K	Solvent Receiver	1989	4,406 gal	E-1302 C-1304/05/06
C-1222	320K	Solvent Recovery Unit	1989	2,190 gal	E-1302 C-1304/05/06
C-1226	320K	Solvent Recovery Decanter	1989	2,190 gal	E-1302 C-1304/05/06
C-1240	320K	Catalyst Phase Splitter	1989	4,600 gal	E-1302 C-1304/05/06
C-1250	320K	Wet Receiver	1989	4,600 gal	E-1302 C-1304/05/06
C-1251	320K	Catalyst Recovery Decanter	1989	45 gal	E-1302 C-1304/05/06
C-1255	320K	Acid Cut Tank	1989	4,600 gal	E-1302 C-1304/05/06
C-1260	320K	Storage Tank	1989	7,000 gal	C-1304/05/06
C-1261	320K	Shot Tank	1989	500 gal	C-1304/05/06
C-1270	320K	Chloride Storage Tank	1989	3,400 gal	C-1305/06
C-1271	320K	Weigh Tank	1989	175 gal	C-1305/06
H-1301	320K	Step III Vacuum Pump System	1989	50 mmHg	E-1302 C-1304/05/06
C-1303	320K	Vent Accumulator	1989	650 gal	E-1302 C-1304/05/06
C-1312	320L	Cold Glycol Exp. Tank	1989	5,000 gal	N/A
C-1315	320L	Hot Glycol Exp. Tank	1989	1,000 gal	N/A
DB-273	320K	Wastewater Pretreatment Tank	1989	650 gal	E-1302 C-1304/05/06
C-1320	320K	Wastewater Tank	1989	6,000 gal	E-1302 C-1304/05/06

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
H-1322	320K	Step I/II Vacuum Pump	1989	50 mmHg	E-1302 C-1304/05/06
C-1327	320L	Tempered Glycol Tank	2003	500 gal	N/A
S-1215	320K	Leaf Filter	1989	N/A	N/A
S-1215A	320K	Leaf Filter	1989	N/A	N/A
L-10TT	320K	Tank Truck Unloading	1989	N/A	E-1302 C-1304/05/06
L-20TT	320K	Tank Truck Unloading	1989	N/A	C-1304/05/06
C-1279	320K	Chloride Storage Tank	2006	4,000 gal	C-1305/06
Control Device					
E-1302	320K	Vent Condenser	1989	31 ft^2 of heating surface	C-1304/05/06
C-1304	320K	H2SO4 Scrubber	1989	375 gal (Sep. Tank)	C-1305/06
C-1305	320K	Caustic Scrubber	1989	375 gal (Sep. Tank)	C-1306
C-1306A C-1306B	320K	Carbon Adsorbers (2 beds)	1989	2 @ 400 lbs each	C-1306C C-1306D
C-1306C C-1306D	320K	Carbon Adsorbers (2 beds)	1989	2 @ 250 lbs each	N/A
C-1306E	320K	Mobile Carbon Adsorber	1989	1,800-2,000 lbs	N/A

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
R13-0798*	6/7/85
R13-2413B	6/07/06

** - This permit was originally incorrectly listed as R13-0793*

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 such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). 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

CAAA	Clean Air Act Amendments	**NO_x**	Nitrogen Oxides
CBI	Confidential Business Information	**NSPS**	New Source Performance Standards
CEM	Continuous Emission Monitor		
CES	Certified Emission Statement	**PM**	Particulate Matter
C.F.R. *or* CFR	Code of Federal Regulations	**PM_{10}**	Particulate Matter less than 10μm in diameter
CO	Carbon Monoxide		
C.S.R. *or* CSR	Codes of State Rules	**pph**	Pounds per Hour
DAQ	Division of Air Quality	**ppm**	Parts per Million
DEP	Department of Environmental Protection	**PSD**	Prevention of Significant Deterioration
FOIA	Freedom of Information Act	**psi**	Pounds per Square Inch
HAP	Hazardous Air Pollutant	**SIC**	Standard Industrial Classification
HON	Hazardous Organic NESHAP		
HP	Horsepower	**SIP**	State Implementation Plan
lbs/hr *or* lb/hr	Pounds per Hour	**SO_2**	Sulfur Dioxide
LDAR	Leak Detection and Repair	**TAP**	Toxic Air Pollutant
m	Thousand	**TPY**	Tons per Year
MACT	Maximum Achievable Control Technology	**TRS**	Total Reduced Sulfur
		TSP	Total Suspended Particulate
mm	Million	**USEPA**	United States Environmental Protection Agency
mmBtu/hr	Million British Thermal Units per Hour		
$mmft^3$/hr *or* mmcf/hr	Million Cubic Feet Burned per Hour	**UTM**	Universal Transverse Mercator
NA *or* N/A	Not Applicable	**VEE**	Visual Emissions Evaluation
NAAQS	National Ambient Air Quality Standards	**VOC**	Volatile Organic Compounds
NESHAPS	National Emissions Standards for Hazardous Air Pollutants		

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§30-2.39]

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. Emergency

2.17.1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.
[45CSR§30-5.7.a.]

2.17.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of 45CSR§30-5.7.c. are met.
[45CSR§30-5.7.b.]

2.17.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;

b. The permitted facility was at the time being properly operated;

c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

d. Subject to the requirements of 45CSR§30-5.1.c.3.C.1, the permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice, report, and variance request fulfills the requirement of 45CSR§30-5.1.c.3.B. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

[45CSR§30-5.7.c.]

2.17.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
[45CSR§30-5.7.d.]

2.17.5. This provision is in addition to any emergency or upset provision contained in any applicable requirement.
[45CSR§30-5.7.e.]

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. and 45CSR38]**

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 Application R13-0798, R13-2413, R13-2413A, R13-2413B, 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. R13-0798, Permit No. R13-2413 (Condition C.3.)]

3.2. Monitoring Requirements

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.
[WV Code § 22-5-4(a)(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.
[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 certification to the USEPA as required in 3.5.5 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, mailed first class or by private carrier with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

If to the DAQ:

Director
WVDEP
Division of Air Quality
601 57th Street SE
Charleston, WV 25304

Phone: 304/926-0475
FAX: 304/926-0478

If to the US EPA:

Associate Director
Office of Enforcement and Permits Review
(3AP12)
U. S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

3.5.4. **Certified emissions statement.** The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. **[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 annual certification to the USEPA shall be submitted in electronic format only. It shall be submitted by e-mail to the following address: R3_APD_Permits@epa.gov. The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification. **[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. **[45CSR§30-5.1.c.3.A.]**

3.5.7. **Emergencies.** For reporting emergency situations, refer to Section 2.17 of this permit.

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. Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.

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 telefax. 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

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.

N/A

4.0 Source-Specific Requirements [Carbofuran Unit]

4.1. Limitations and Standards

4.1.1. The permittee shall have an emergency scrubber containing at least a 10% NaOH solution with 150,000 lbs/hr available for any "worst case" scenario leak of MIC. The emergency scrubber shall remove 99.6% of MIC and 99.9% of carbofuran. The scrubber shall vent to the carbon beds (A-3205).
[45CSR13, Permit No. R13-0798 (A-3203, A-3205)]

4.1.2. The caustic scrubber, (A-3204), shall maintain a 99.9% removal of MIC and 99.9% removal of carbofuran.
[45CSR13, Permit No. R13-0798 (A-3204)]

4.1.3. Total emissions to the air from the following emission points shall not exceed the following:

Emission Point	Pollutant	Potential Emissions	
		Hourly (lbs/hr)	Annual (TPY*)
320A	Methyl Isocyanate (MIC)	0.02	0.08
	7-OH	<0.001	<0.005
	Dichloromethane (DCM)	0.36	1.6
	Triethylamine	<0.001	<0.005
	Carbofuran	<0.001	<0.005
320F	Dichloromethane (DCM)	0.012	0.024
320G	Dichloromethane (DCM)	0.032	0.001
320I	Dichloromethane (DCM)	0.016	0.0005

* - The facility shall not exceed the annual emissions listed in Table A.3. during any consecutive 12 month period.
[45CSR13, Permit No. R13-0798 (320A, 320F, 320G, 320I)]

4.1.4. 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. (320A, 320B)]

4.1.5. The provisions of 4.1.4. 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. (320A, 320B)]

4.1.6. 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. (320E, 320F, 320I)]

4.1.7. 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. (320E, 320F, 320I)]

4.1.8. The Carbofuran Unit functions as a batch operation that shall be limited to a maximum 10,110 production batches of product per year.
[45CSR13, Permit No. R13-0798 (C-100)]

4.1.9. The permittee shall not cause, suffer, allow, or permit particulate matter to be emitted in excess of 1.1 lbs/hr into the open air from the baghouse A-3206 or 1.5 lbs/hr into the open air from the baghouse 320B
[45CSR§7-4.1 (A-3206, 320B)]

Note: For following paragraphs, any reference to "this subpart" shall mean 40C.F.R.63 Subpart MMM, any reference to "this part" shall mean 40C.F.R.Part 63.

4.1.10. Equipment Leaks:
The permittee shall comply with the provisions pertaining to fugitive volatile organic compound (VOC) emissions within 40 CFR 63, Subpart H as specified in 40CFR§63.1363 of 40 CFR 63, Subpart MMM.
[45CSR34, 40CFR§63.1363 (Fugitive Emissions)]

4.1.11. Process Vents:
(a) The Permittee shall control HAP emissions to the levels specified in this section.
(b) Process Vents.
(1) The owner or operator of an existing source shall comply with the requirements of paragraphs (b)(2) or (b)(6) of this section. Compliance with paragraph (b)(2) of this section shall be demonstrated through the applicable test methods in 40CFR§63.1365 and the monitoring requirements in 40CFR§63.1366.
(2) Organic HAP emissions from existing sources. The owner or operator of an existing affected source must comply with the requirements in either paragraph (b)(2)(i) of this section or with the requirements in paragraphs (b)(2)(ii) through (iv) of this section.
(i) The uncontrolled organic HAP emission rate shall not exceed 0.15 Mg/yr from the sum of all process vents within a process.
(ii) (A) Except as provided in paragraph (b)(2)(ii)(B) of this section, uncontrolled organic HAP emissions from a process vent shall be reduced by 98 percent by weight or greater if the flowweighted average flowrate for the vent as calculated using Equation 1 of this subpart is less than or equal to the flowrate calculated using Equation 2 of this subpart.

$$FR_a = \frac{\sum_{i=1}^{n} (D_i)(FR_i)}{\sum_{i=1}^{n} D_i} \qquad \text{Equation 1}$$

$$FR = 0.02 \times (HL) - 1{,}000 \qquad \text{Equation 2}$$

Where:

FR_a = flow-weighted average flowrate for the vent, scfm
D_i = duration of each emission event, min
FR_i = flowrate of each emission event, scfm
n = number of emission events
FR = flowrate, scfm
HL = annual uncontrolled organic HAP emissions, lb/yr, as defined in 40CFR§63.1361

(B) If the owner or operator can demonstrate that a control device, installed on or before November 10, 1997 on a process vent otherwise subject to the requirements of paragraph (b)(2)(ii)(A) of this section, reduces inlet emissions of total organic HAP by greater than or equal to 90 percent by weight but less than 98 percent by weight, then the control device must be operated to reduce inlet emissions of total organic HAP by 90 percent by weight or greater.

(iii) Excluding process vents that are subject to the requirements in paragraph (b)(2)(ii) of this section, uncontrolled organic HAP emissions from the sum of all process vents within a process shall be reduced by 90 percent or greater by weight.
(iv) As an alternative to the requirements in paragraphs (b)(2)(ii) and (iii) of this section, uncontrolled organic HAP emissions from any process vent may be reduced in accordance with any of the provisions in paragraphs (b)(2)(iv)(A) through (D) of this section. All remaining process vents within a process must be controlled in accordance with paragraphs (b)(2)(ii) and (iii) of this section.
(A) To outlet concentrations less than or equal to 20 ppmv; or
(B) By a flare that meets the requirements of 40CFR§63.11(b); or
(C) By a control device specified in 40CFR§63.1365(a)(4); or
(D) In accordance with the alternative standard specified in paragraph (b)(6) of this section.

(6) Alternative standard. As an alternative to the provisions in paragraphs (b)(2) of this section, the owner or operator may route emissions from a process vent to a combustion control device achieving an outlet TOC concentration, as calibrated on methane or the predominant HAP, of 20 ppmv or less. If the owner or operator is routing emissions to a non-combustion control device or series of control devices, the control device(s) must achieve an outlet TOC concentration, as calibrated on methane or the predominant HAP, of 50 ppmv or less. Any process vents within a process that are not routed to such a control device or series of control devices must be controlled in accordance with the provisions of paragraph (b)(2)(ii), (iii), or (iv), of this section, as applicable.
[45CSR34, 40CFR§63.1362(b)]

4.1.12. Storage Vessels:

(a) The Permittee shall control HAP emissions to the levels specified in this section.

(c) Storage Vessels.

(1) The owner or operator shall either determine the group status of a storage vessel or designate it as a Group 1 storage vessel. If the owner or operator elects to designate the storage vessel as a Group 1 storage vessel, the owner or operator is not required to determine the maximum true vapor pressure of the material stored in the storage vessel.
(2) Standard for existing sources. Except as specified in paragraphs (c)(4), (5), and (6) of this section, the owner

or operator of a Group 1 storage vessel at an existing affected source, as defined in 40CFR§63.1361, shall equip the affected storage vessel with one of the following:
(i) A fixed roof and internal floating roof, or
(ii) An external floating roof, or
(iii) An external floating roof converted to an internal floating roof, or
(iv) A closed vent system meeting the conditions of paragraph (j) of Condition 4.1.14. and a control device that meets any of the following conditions:
(A) Reduces organic HAP emissions by 95 percent by weight or greater; or
(B) Reduces organic HAP emissions to outlet concentrations of 20 ppmv or less; or
(C) Is a flare that meets the requirements of 40CFR§63.11(b); or
(D) Is a control device specified in 40CFR§63.1365(a)(4).
(3) Standard for new sources. Except as specified in paragraphs (c)(4), (5), and (6) of this section, the owner or operator of a Group 1 storage vessel at a new source, as defined in 40CFR§63.1361, shall equip the affected storage vessel in accordance with any one of paragraphs (c)(2)(i) through (iv) of this section.
(4) Alternative standard. As an alternative to the provisions in paragraphs (c)(2) and (3) of this section, the owner or operator of an existing or new affected source may route emissions from storage vessels to a combustion control device achieving an outlet TOC concentration, as calibrated on methane or the predominant HAP, of 20 ppmv or less, and an outlet concentration of hydrogen chloride and chlorine of 20 ppmv or less. If the owner or operator is routing emissions to a non-combustion control device or series of control devices, the control device(s) must achieve an outlet TOC concentration, as calibrated on methane or the predominant HAP, of 50 ppmv or less.
(5) Planned routine maintenance. The owner or operator is exempt from the specifications in paragraphs (c)(2) through (4) of this section during periods of planned routine maintenance of the control device that do not exceed 240 hr/yr. The owner or operator may submit an application to the Administrator requesting an extension of this time limit to a total of 360 hr/yr. The application must explain why the extension is needed, it must indicate that no material will be added to the storage vessel between the time the 240-hr limit is exceeded and the control device is again operational, and it must be submitted at least 60 days before the 240-hr limit will be exceeded.
(6) Vapor balancing alternative. As an alternative to the requirements in paragraphs (c)(2) and (3) of this section, the owner or operator of an existing or new affected source may implement vapor balancing in accordance with paragraphs (c)(6)(i) through (vii) of this section.
(i) The vapor balancing system must be designed and operated to route organic HAP vapors displaced from loading of the storage tank to the railcar or tank truck from which the storage tank is filled.
(ii) Tank trucks and railcars must have a current certification in accordance with the U.S. Department of Transportation pressure test requirements of 49 CFR part 180 for tank trucks and 49 CFR 173.31 for railcars.
(iii) Hazardous air pollutants must only be unloaded from tank trucks or railcars when vapor collection systems are connected to the storage tank's vapor collection system.
(iv) No pressure relief device on the storage tank or on the railcar or tank truck shall open during loading or as a result of diurnal temperature changes (breathing losses).
(v) Pressure relief devices on affected storage tanks must be set to no less than 2.5 psig at all times to prevent breathing losses. The owner or operator shall record the setting as specified in 40CFR§63.1367(b)(8) and comply with the following requirements for each pressure relief valve:
(A) The pressure relief valve shall be monitored quarterly using the method described in Sec. 40CFR§63.180(b).
(B) An instrument reading of 500 ppmv or greater defines a leak.
(C) When a leak is detected, it shall be repaired as soon as practicable, but no later than 5 days after it is detected, and the owner or operator shall comply with the recordkeeping requirements of 40CFR§63.1363(g)(4)(i) through (iv).
(vi) Railcars or tank trucks that deliver HAP to an affected storage tank must be reloaded or cleaned at a facility that utilizes one of the following control techniques:
(A) The railcar or tank truck must be connected to a closed vent system with a control device that reduces inlet emissions of HAP by 90 percent by weight or greater; or
(B) A vapor balancing system designed and operated to collect organic HAP vapor displaced from the tank

truck or railcar during reloading must be used to route the collected HAP vapor to the storage tank from which the liquid being transferred originated.
(vii) The owner or operator of the facility where the railcar or tank truck is reloaded or cleaned must comply with the following requirements:
(A) Submit to the owner or operator of the affected storage tank and to the Administrator a written certification that the reloading or cleaning facility will meet the requirements of this section. The certifying entity may revoke the written certification by sending a written statement to the owner or operator of the affected storage tank giving at least 90 days notice that the certifying entity is rescinding acceptance of responsibility for compliance with the requirements of this paragraph (c)(6)(vii)(A).
(B) If complying with paragraph (c)(6)(vi)(A) of this section, demonstrate continuous compliance in accordance with 40CFR§63.1366, keep records as specified in 40CFR§63.1367, and prepare reports as specified in 40CFR§63.1368.
(C) If complying with paragraph (c)(6)(vi)(B) of this section, keep records of:
(1) The equipment to be used and the procedures to be followed when reloading the railcar or tank truck and displacing vapors to the storage tank from which the liquid originates, and
(2) Each time the vapor balancing system is used to comply with paragraph (c)(6)(vi)(B) of this section.
(7) Compliance with the provisions of paragraphs (c)(2) and (3) of this section is demonstrated using the monitoring requirements in 40CFR§63.1366. Compliance with the outlet concentrations in paragraph (c)(4) of this section shall be determined by the continuous emission monitoring requirements of 40CFR§63.1366(b)(5).
[45CSR34, 40CFR§63.1362(c)]

4.1.13. Heat Exchange Systems:

(a) The Permittee shall control HAP emissions to the levels specified in this section.

(f) Heat exchange systems. Unless one or more of the conditions specified in 40CFR§63.104(a)(1) through (6) of subpart F of this part are met, an owner or operator shall monitor each heat exchange system that is used to cool process equipment in PAI process units that are part of an affected source as defined in 40CFR§63.1360(a) according to the provisions in either 40CFR§63.104(b) or (c) of subpart F of this part. When the term ``chemical manufacturing process unit'' is used in 40CFR§63.104(c) of subpart F of this part, the term ``PAI process unit'' shall apply for the purposes of this subpart. Whenever a leak is detected, the owner or operator shall comply with the requirements in §63.104(d) of subpart F of this part. Delay of repair of heat exchange systems for which leaks have been detected is allowed in accordance with the provisions of 40CFR§63.104(e) of subpart F of this part.
[45CSR34, 40CFR§63.1362(f)]

4.1.14. Closed-vent Systems:

(a) The Permittee shall control HAP emissions to the levels specified in this section.

(j) Closed-vent systems. The owner or operator of a closed-vent system that contains bypass lines that could divert a vent stream away from a control device used to comply with the requirements in paragraphs (b) through (c) of this section (Conditions 4.1.11 and 4.1.12) shall comply with the requirements of Table 3 of this subpart and paragraph (j)(1) or (2) of this section. Equipment such as low leg drains, high point bleeds, analyzer vents, open-ended valves or lines, rupture disks and pressure relief valves needed for safety purposes are not subject to this paragraph.
(1) Install, calibrate, maintain, and operate a flow indicator that determines whether vent stream flow is present at least once every 15 minutes. Records shall be maintained as specified in 40CFR§63.1367(f)(1).
The flow indicator shall be installed at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere; or
(2) Secure the bypass line valve in the closed position with a car seal or lock and key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Records shall be maintained as specified in 40CFR§63.1367(f)(2).
[45CSR34, 40CFR§63.1362(j)]

4.2. Monitoring Requirements

4.2.1. To show compliance with the MIC and DCM emission limits for Emission Point 320A in Condition 4.1.3, the permittee shall have continuous monitoring of MIC and DCM emissions (consisting of a sample taken at least every 15 minutes) from emission point 320A. This data shall be recorded once per shift and calculations shall be made to determine compliance with the MIC and DCM emission limits for Emission Point 320A in Condition 4.1.3. The data recorded and calculations performed shall be maintained onsite.
[45CSR§30-5.1.c. (320A)]

4.2.2. Compliance with 4.1.1. for the percent removal of MIC and carbofuran by the emergency scrubber (A-3203) shall be determined by maintaining the scrubber at the following conditions:
Minimum pressure drop under emergency conditions as specified in permit application R13-0798: 10 in H2O
Minimum concentration of aqueous sodium hydroxide: 10%
Minimum liquor flow rate to scrubber: 271 gal/min
Column Temperature range: 68°F - 140°F
[45CSR13, Permit No. R13-0798 (A-3203)]

4.2.3. Compliance with 4.1.2. for the percent removal of MIC and carbofuran by the caustic scrubber (A-3204) shall be determined by maintaining the scrubber at the following conditions:
Minimum concentration of aqueous sodium hydroxide: 10%
Minimum liquor flow rate to scrubber: 271 gal/min
Column Temperature range: 68°F - 140°F
[45CSR13, Permit No. R13-0798 (A-3204)]

4.2.4. The concentration of the aqueous sodium hydroxide shall be measured and recorded once per shift.
[45CSR§30-5.1.c. (A-3203, A-3204)]

4.2.5. Compliance with 4.1.3. for the carbon bed A-3205 shall be determined by replacing the carbon in the bed once per calendar year. Compliance with 4.1.3. for the carbon bed A-3201 shall be determined by replacing the carbon in the lead bed once saturation of the bed has been found by the CEMS continuous MIC/DCM monitor.
[45CSR§30.5.1.c (A-3201, A-3205)]

4.2.6. Compliance with the particulate matter limits of 4.1.9. shall be determined by
a. material balances around the baghouse.
b. the bags shall be replaced once per calendar year.
[45CSR§30.5.1.c (A-3206, 320B)]

4.2.7. For the purpose of determining compliance with the control efficiencies and operating parameters as set forth in Conditions 4.1.1. and 4.1.2,, the permittee shall perform scrubber liquor flow measurements at least once per fifteen (15) minutes period of operation through caustic scrubbers A-3203 and A-3204 and daily pH measurements of the liquor effluent. This information shall be maintained on-site and made available to the Director or his duly authorized representative upon request.
[45CSR§30.5.1.c (A-3203, A-3204)]

4.2.8. For the purpose of determining compliance with the control efficiencies and operating parameters as set forth in Conditions 4.1.2. and 4.1.3., the permittee shall conduct the following measurements during each regeneration cycle of the carbon beds, A-3201 and A3205: the total volumetric flow measurement of the regeneration stream, the maximum bed temperature, and the duration since the last regeneration cycle was performed. In addition,

the permittee shall record the bed temperature of the units after each cooling cycle within fifteen (15) minutes of completing the cycle. This information shall be maintained on-site and made available to the Director or his duly authorized representative upon request.
[45CSR§30.5.1.c (A-3201, A-3205)]

4.2.9. At least monthly, visual emission checks of each emission point subject to an 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 (i.e. excluding startup/shutdown/malfunction events or when the emission point process is not operating unless the emission point process has not operated for the entire month) 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 in a timely manner 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. (A-3206, 320B)]

4.2.10. Control Device Monitoring:
(a) To provide evidence of continued compliance with the standard, the owner or operator of any existing or new affected source shall install, operate, and maintain monitoring devices as specified in this section. During the initial compliance demonstration, maximum or minimum operating parameter levels, or other design and operating characteristics, as appropriate, shall be established for emission sources that will indicate the source is in compliance. Test data, calculations, or information from the evaluation of the control device design, as applicable, shall be used to establish the operating parameter level or characteristic.
(b) Monitoring for control devices.
(1) Parameters to monitor. Except as specified in paragraph (b)(1)(i) of this section, for each control device, the owner or operator shall install and operate monitoring devices and operate within the established parameter levels to ensure continued compliance with the standard. Monitoring parameters are specified for control scenarios in paragraphs (b)(1)(ii), (iii), (iv), and (x) of this section, and are summarized in Table 3 of this subpart.
(i) Periodic verification. For control devices that control vent streams containing total HAP emissions less than 0.91 Mg/yr, before control, monitoring shall consist of a periodic verification that the device is operating properly. This verification shall include, but not be limited to, a daily or more frequent demonstration that the unit is working as designed and may include the daily measurements of the parameters described in paragraphs (b)(1)(ii), (iii), (iv), and (x) of this section. This demonstration shall be included in the Precompliance plan, to be submitted 6 months prior to the compliance date of the standard.

(ii) Scrubbers. For affected sources using liquid scrubbers, the owner or operator shall establish a minimum scrubber liquid flow rate or pressure drop as a site-specific operating parameter which must be measured and recorded at least once every 15 minutes during the period in which the scrubber is controlling HAP from an emission stream as required by the standards in 40CFR§63.1362. If the scrubber uses a caustic solution to remove acid emissions, the pH of the effluent scrubber liquid shall also be monitored once a day. The minimum scrubber liquid flow rate or pressure drop shall be based on the conditions under which the initial compliance demonstration was conducted.
(A) The monitoring device used to determine the pressure drop shall be certified by the manufacturer to be accurate to within a gage pressure of ±10 percent of the maximum pressure drop measured.
(B) The monitoring device used for measurement of scrubber liquid flowrate shall be certified by the

manufacturer to be accurate to within ±10 percent of the design scrubber liquid flowrate.
(C) The monitoring device shall be calibrated annually.

(iii) Condensers. For each condenser, the owner or operator shall establish the maximum condenser outlet gas temperature as a site-specific operating parameter which must be measured and recorded at least once every 15 minutes during the period in which the condenser is controlling HAP from an emission stream as required by the standards in §63.1362.
(A) The temperature monitoring device must be accurate to within ±2 percent of the temperature measured in degrees Celsius or ±2.5 °C, whichever is greater.
(B) The temperature monitoring device must be calibrated annually.
(iv) Regenerative carbon adsorbers. For each regenerative carbon adsorber, the owner or operator shall comply with the provisions in paragraphs (b)(1)(iv)(A) through (F) of this section.
(A) Establish the regeneration cycle characteristics specified in paragraphs (b)(1)(iv)(A) (1) through (4) of this section under absolute or hypothetical peak-case conditions, as defined in 40CFR§63.1365(b)(11)(i) or (ii).
(1) Minimum regeneration frequency (i.e., operating time since last regeneration);
(2) Minimum temperature to which the bed is heated during regeneration;
(3) Maximum temperature to which the bed is cooled, measured within 15 minutes of completing the cooling phase; and
(4) Minimum regeneration stream flow.
(B) Monitor and record the regeneration cycle characteristics specified in paragraphs (b)(1)(iv)(B) (1) through (4) of this section for each regeneration cycle.
(1) Regeneration frequency (i.e., operating time since end of last regeneration);
(2) Temperature to which the bed is heated during regeneration;
(3) Temperature to which the bed is cooled, measured within 15 minutes of the completion of the cooling phase; and
(4) Regeneration stream flow.
(C) Use a temperature monitoring device that is accurate to within ±2 percent of the temperature measured in degrees Celsius or ±2.5 °C, whichever is greater.
(D) Use a regeneration stream flow monitoring device capable of recording the total regeneration stream flow to within ±10 percent of the established value (i.e., accurate to within ±10 percent of the reading).
(E) Calibrate the temperature and flow monitoring devices annually.
(F) Conduct an annual check for bed poisoning in accordance with manufacturer's specifications.
(x) Continuous emission monitor. As an alternative to the parameters specified in paragraphs (b)(1)(ii), (iii), (iv), and (x) of this section, an owner or operator may monitor and record the outlet HAP concentration or both the outlet TOC concentration and outlet total HCl and chlorine concentration at least every 15 minutes during the period in which the control device is controlling HAP from an emission stream subject to the standards in §63.1362. The owner or operator need not monitor the total HCl and chlorine concentration if the owner or operator determines that the emission stream does not contain HCl or chlorine. The owner or operator need not monitor the TOC concentration if the owner or operator determines the emission stream does not contain organic compounds. The HAP or TOC monitor must meet the requirements of Performance Specification 8 or 9 of appendix B of part 60 and must be installed, calibrated, and maintained, according to 40CFR§63.8 of subpart A of this part. As part of the QA/QC Plan, calibration of the device must include, at a minimum, quarterly cylinder gas audits. If supplemental gases are introduced before the control device, the monitored concentration shall be corrected as specified in 40CFR§63.1365(a)(7).
[45CSR34, 40CFR§§63.1366(a) and (b). (A-3201, A-3203, A-3204, A-3205, A-3206, 320B)]

4.3. Testing Requirements

None

4.4. Recordkeeping Requirements

4.4.1. For the purpose of determining compliance with the permit limits based on the maximum production rates and associated emission limits as described in Conditions 4.1.3 (except for the MIC and DCM emissions from Emission Point 320A which are determined from Condition 4.2.1), 4.1.8, and 4.1.9, the permittee shall maintain monthly records of the number of batches produced and monthly calculate the actual emissions associated with the production. This information shall be maintained on-site and made available to the Director or his duly authorized representative upon request.
[45CSR§30-5.1.c.]

4.4.2. Equipment Leaks:
(g) Recordkeeping requirements.
(1) An owner or operator of more than one group of processes subject to the provisions of this section may comply with the recordkeeping requirements for the groups of processes in one recordkeeping system if the system identifies with each record the program being implemented (e.g., quarterly monitoring) for each type of equipment. All records and information required by this section shall be maintained in a manner that can be readily accessed at the plant site. This could include physically locating the records at the plant site or accessing the records from a central location by computer at the plant site.
(2) General recordkeeping. Except as provided in 40CFR§63.1363(g)(5), the following information pertaining to all equipment subject to the requirements in this section shall be recorded:
(i)(A) A list of identification numbers for equipment (except instrumentation systems) subject to the requirements of this section. Connectors, except those subject to 40CFR§63.1363(f), need not be individually identified if all connectors in a designated area or length of pipe subject to the provisions of this section are identified as a group, and the number of subject connectors is indicated. The list for each type of equipment shall be completed no later than the completion of the initial survey required for that component. The list of identification numbers shall be updated, if needed, to incorporate equipment changes within 15 calendar days of the completion of each monitoring survey for the type of equipment component monitored.
(B) A schedule for monitoring connectors subject to the provisions of 40CFR§63.174(a) of subpart H of this part and valves subject to the provisions of 40CFR§63.1363(e)(4).
(C) Physical tagging of the equipment is not required to indicate that it is in organic HAP service. Equipment subject to the provisions of this section may be identified on a plant site plan, in log entries, or by other appropriate methods.
(ii)(A) A list of identification numbers for equipment that the owner or operator elects to equip with a closed-vent system and control device, under the provisions of 40CFR§63.1363(c)(7) or 40CFR§63.164(h) or 40CFR§63.165(c) of subpart H of this part.
(B) A list of identification numbers for compressors that the owner or operator elects to designate as operating with an instrument reading of less than 500 parts per million above background, under the provisions of 40CFR§63.164(i) of subpart H of this part.
(iii)(A) A list of identification numbers for pressure relief devices subject to the provisions in 40CFR§63.165(a) of subpart H of this part.
(B) A list of identification numbers for pressure relief devices equipped with rupture disks, under the provisions of 40CFR§63.165(d) of subpart H of this part.
(iv) Identification of instrumentation systems subject to the provisions of this section. Individual components in an instrumentation system need not be identified.
(v) The following information shall be recorded for each dual mechanical seal system:
(A) Design criteria required by 40CFR§63.1363(c)(5)(vi)(A) and 40CFR63.164(e)(2) of subpart H of this part, and an explanation of the design criteria; and
(B) Any changes to these criteria and the reasons for the changes.
(vi) A list of equipment designated as unsafe-to-monitor or difficult-to-monitor under 40CFR§63.1363(f) and a copy of the plan for monitoring this equipment.
(vii) A list of connectors removed from and added to the process, as described in 40CFR§63.174(i)(1) of subpart H of this part, and documentation of the integrity of the weld for any removed connectors, as required in

40CFR§63.174(j) of subpart H of this part. This is not required unless the net credits for removed connectors is expected to be used.
(viii) For batch processes that the owner or operator elects to monitor as provided under 40CFR§63.178(c) of subpart H of this part, a list of equipment added to batch product processes since the last monitoring period required in 40CFR§63.178(c)(3)(ii) and (iii) of subpart H of this part. This list must be completed for each type of equipment within 15 calendar days of the completion of the each monitoring survey for the type of equipment monitored.
(3) Records of visual inspections. For visual inspections of equipment subject to the provisions of 40CFR§63.1363(c)(2)(iii) and (c)(5)(iv), the owner or operator shall document that the inspection was conducted and the date of the inspection. The owner or operator shall maintain records as specified in paragraph (g)(4) of this section for leaking equipment identified in this inspection, except as provided in paragraph (g)(5) of this section. These records shall be retained for 5 years.
(4) Monitoring records. When each leak is detected as specified in 40CFR§63.1363(c) and (e) and 40CFR§63.164, 63.169, 63.172, and 63.174 of subpart H of this part, the owner or operator shall record the information specified in paragraphs (g)(4)(i) through (ix) of this section. All records shall be retained for 5 years, in accordance with the requirements of 40CFR§63.10(b)(1) of subpart A of this part.
(i) The instrument and the equipment identification number and the operator name, initials, or identification number.
(ii) The date the leak was detected and the date of first attempt to repair the leak.
(iii) The date of successful repair of the leak.
(iv) If postrepair monitoring is required, maximum instrument reading measured by Method 21 of 40 CFR part 60, appendix A, after it is successfully repaired or determined to be nonrepairable.
(v) ``Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak.
(A) The owner or operator may develop a written procedure that identifies the conditions that justify a delay of repair. The written procedures may be included as part of the startup/shutdown/malfunction plan, required by 40CFR§63.1367(a), for the source or may be part of a separate document that is maintained at the plant site. Reasons for delay of repair may be documented by citing the relevant sections of the written procedure.
(B) If delay of repair was caused by depletion of stocked parts, there must be documentation that the spare parts were sufficiently stocked onsite before depletion and the reason for depletion.
(vi) If repairs were delayed, dates of process shutdowns that occur while the equipment is unrepaired.
(vii)(A) If the alternative in 40CFR§63.174(c)(1)(ii) of subpart H of this part is not in use for the monitoring period, identification, either by list, location (area or grouping), or tagging of connectors disturbed since the last monitoring period required in 40CFR§63.174(b) of subpart H of this part, as described in 40CFR§63.174(c)(1) of subpart H of this part.
(B) The date and results of follow-up monitoring as required in 40CFR§63.174(c) of subpart H of this part. If identification of disturbed connectors is made by location, then all connectors within the designated location shall be monitored.
(viii) The date and results of the monitoring required in 40CFR§63.178(c)(3)(i) of subpart H of this part for equipment added to a batch process since the last monitoring period required in 40CFR§63.178(c)(3)(ii) and (iii) of subpart H of this part. If no leaking equipment is found in this monitoring, the owner or operator shall record that the inspection was performed. Records of the actual monitoring results are not required.
(ix) Copies of the periodic reports as specified in 40CFR§63.1363(h)(3), if records are not maintained on a computerized data base capable of generating summary reports from the records.
(5) Records of pressure tests. The owner or operator who elects to pressure test a process equipment train and supply lines between storage and processing areas to demonstrate compliance with this section is exempt from the requirements of paragraphs (g)(2), (3), (4), and (6) of this section. Instead, the owner or operator shall maintain records of the following information:
(i) The identification of each product, or product code, produced during the calendar year. It is not necessary to identify individual items of equipment in the process equipment train.
(ii) Records demonstrating the proportion of the time during the calendar year the equipment is in use in the process that is subject to the provisions of this subpart. Examples of suitable documentation are records of time in use for individual pieces of equipment or average time in use for the process unit. These records are not

required if the owner or operator does not adjust monitoring frequency by the time in use, as provided in 40CFR§63.178(c)(3)(iii) of subpart H of this part.
(iii) Physical tagging of the equipment to identify that it is in organic HAP service and subject to the provisions of this section is not required. Equipment in a process subject to the provisions of this section may be identified on a plant site plan, in log entries, or by other appropriate methods.
(iv) The dates of each pressure test required in 40CFR§63.178(b) of subpart H of this part, the test pressure, and the pressure drop observed during the test.
(v) Records of any visible, audible, or olfactory evidence of fluid loss.
(vi) When a process equipment train does not pass two consecutive pressure tests, the following information shall be recorded in a log and kept for 2 years:
(A) The date of each pressure test and the date of each leak repair attempt.
(B) Repair methods applied in each attempt to repair the leak.
(C) The reason for the delay of repair.
(D) The expected date for delivery of the replacement equipment and the actual date of delivery of the replacement equipment.
(E) The date of successful repair.
(6) Records of compressor and pressure relief valve compliance tests. The dates and results of each compliance test required for compressors subject to the provisions in 40CFR§63.164(i) of subpart H of this part and the dates and results of the monitoring following a pressure release for each pressure relief device subject to the provisions in 40CFR§63.165(a) and (b) of subpart H of this part. The results shall include:
(i) The background level measured during each compliance test.
(ii) The maximum instrument reading measured at each piece of equipment during each compliance test.
(7) Records for closed-vent systems. The owner or operator shall maintain records of the information specified in 40CFR§63.1363(g)(7)(i) through (iii) for closed-vent systems and control devices subject to the provisions of 40CFR§63.1363(b)(3)(ii). The records specified in 40CFR§63.1363(g)(7)(i) shall be retained for the life of the equipment. The records specified in 40CFR§63.1363(g)(7)(ii) and (iii) shall be retained for 5 years.
(i) The design specifications and performance demonstrations specified in 40CFR§63.1363(g)(7)(i)(A) through (D).
(A) Detailed schematics, design specifications of the control device, and piping and instrumentation diagrams.
(B) The dates and descriptions of any changes in the design specifications.
(C) The flare design (i.e., steam assisted, air assisted, or nonassisted) and the results of the compliance demonstration required by 40CFR63.11(b) of subpart A of this part.
(D) A description of the parameter or parameters monitored, as required in 40CFR§63.1363(b)(3)(ii), to ensure that control devices are operated and maintained in conformance with their design and an explanation of why that parameter (or parameters) was selected for the monitoring.
(ii) Records of operation of closed-vent systems and control devices.
(A) Dates and durations when the closed-vent systems and control devices required in 40CFR§63.1363(c) and 40CFR§63.164 through 63.166 of subpart H of this part are not operated as designed as indicated by the monitored parameters, including periods when a flare pilot light system does not have a flame.
(B) Dates and durations during which the monitoring system or monitoring device is inoperative.
(C) Dates and durations of startups and shutdowns of control devices required in 40CFR§63.1363(c) and 40CFR§63.164 through 63.166 of subpart H of this part.
(iii) Records of inspections of closed-vent systems subject to the provisions of 40CFR§63.172 of subpart H of this part.
(A) For each inspection conducted in accordance with the provisions of 40CFR§63.172(f)(1) or (2) of subpart H of this part during which no leaks were detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected.
(B) For each inspection conducted in accordance with the provisions of 40CFR§63.172(f)(1) or (f)(2) of subpart H of this part during which leaks were detected, the information specified in 40CFR§63.1363(g)(4) shall be recorded.
(8) Records for components in heavy liquid service. Information, data, and analysis used to determine that a piece of equipment or process is in heavy liquid service shall be recorded. Such a determination shall include an analysis or demonstration that the process fluids do not meet the criteria of ``in light liquid or gas/vapor

service." Examples of information that could document this include, but are not limited to, records of chemicals purchased for the process, analyses of process stream composition, engineering calculations, or process knowledge.
(9) Records of exempt components. Identification, either by list, location (area or group), or other method of equipment in organic HAP service less than 300 hr/yr subject to the provisions of this section.
(10) Records of alternative means of compliance determination. Owners and operators choosing to comply with the requirements of 40CFR§63.179 of subpart H of this part shall maintain the following records:
(i) Identification of the process(es) and the organic HAP they handle.
(ii) A schematic of the process, enclosure, and closed-vent system.
(iii) A description of the system used to create a negative pressure in the enclosure to ensure that all emissions are routed to the control device.
[45CSR34, 40CFR§63.1363(g) (fugitive emissions)]

4.4.3. (a) Requirements of subpart A of this part. The owner or operator of an affected source shall comply with the recordkeeping requirements in subpart A of this part as specified in Subpart MMM, Table 1 and in 40CFR§63.1367(a)(1) through (5).
(1) Data retention. Each owner or operator of an affected source shall keep copies of all records and reports required by this subpart for at least 5 years, as specified in 40CFR§63.10(b)(1) of subpart A of this part.
(3) Startup, shutdown, and malfunction plan. The owner or operator of an affected source shall develop and implement a written startup, shutdown, and malfunction plan as specified in 40CFR§63.6(e)(3) of subpart A of this part. This plan shall describe, in detail, procedures for operating and maintaining the affected source during periods of startup, shutdown, and malfunction and a program for corrective action for a malfunctioning process, air pollution control, and monitoring equipment used to comply with this subpart. The owner or operator of an affected source shall keep the current and superseded versions of this plan onsite, as specified in 40CFR§63.6(e)(3)(v) of subpart A of this part. The owner or operator shall keep the startup, shutdown, and malfunction records specified in 40CFR§63.1367(a)(3)(i) through (iii). Reports related to the plan shall be submitted as specified in 40CFR§63.1368(i).
(i) The owner or operator shall record the occurrence and duration of each malfunction of the process operations or of air pollution control equipment used to comply with this subpart, as specified in 40CFR§63.6(e)(3)(iii).
(ii) The owner or operator shall record the occurrence and duration of each malfunction of continuous monitoring systems used to comply with this subpart.
(iii) For each startup, shutdown, or malfunction, the owner or operator shall record all information necessary to demonstrate that the procedures specified in the affected source's startup, shutdown, and malfunction plan were followed, as specified in 40CFR§63.6(e)(3)(iii) of subpart A of this part; alternatively, the owner or operator shall record any actions taken that are not consistent with the plan, as specified in 40CFR§63.6(e)(3)(iv) of subpart A of this part.
(b) Records of equipment operation. The owner or operator must keep the records specified in 40CFR§63.1367(b)(1), (6), (7), and (10) up-to-date and readily accessible.
(1) Each measurement of a control device operating parameter monitored in accordance with 40CFR§63.1366 and each measurement of a treatment process parameter monitored in accordance with the provisions of 40CFR63.1362(d).
(6) The owner or operator of an affected source that complies with the standards for process vents, storage tanks, and wastewater systems shall maintain up-to-date, readily accessible records of the information specified in 40CFR§63.1367(b)(6)(i) through (vii) to document that HAP emissions or HAP loadings (for wastewater) are below the limits specified in 40CFR§63.1362:
(i) Except as specified in 40CFR§63.1367(b)(6)(ix), the initial calculations of uncontrolled and controlled emissions of gaseous organic HAP and HCl per batch for each process.
(ii) The wastewater concentrations and flow rates per POD and process.
(iii) The number of batches per year for each batch process.
(iv) The operating hours per year for continuous processes.
(v) The number of batches and the number of operating hours for processes that contain both batch and continuous operations.
(vi) The number of tank turnovers per year, if used in an emissions average or for determining applicability of a

new PAI process unit.
(vii) A description of absolute or hypothetical peak-case operating conditions as determined using the procedures in 40CFR§63.1365(b)(11).
(viii) Periods of planned routine maintenance as described in 40CFR§63.1362(c)(5).
(ix) As an alternative to the records in 40CFR§63.1367(b)(6)(i), a record of the determination that the conditions in 40CFR63.1365(b)(11)(iii)(D)(1) or (2) are met.
(7) Daily schedule or log of each operating scenario updated daily or, at a minimum, each time a different operating scenario is put into operation.
(10) All maintenance performed on the air pollution control equipment.
(c) Records of equipment leak detection and repair. The owner or operator of an affected source subject to the equipment leak standards in 40CFR§63.1363 shall implement the recordkeeping requirements specified in 40CFR§63.1363(g). All records shall be retained for a period of 5 years, in accordance with the requirements of 40CFR§63.10(b)(1) of subpart A of this part.
(e) The owner or operator of an affected source subject to the requirements for heat exchanger systems in 40CFR§63.1362(g) shall retain the records as specified in 40CFR§63.104(f)(1)(i) through (iv) of subpart G of this part.
(f) Records of inspections. The owner or operator shall keep records specified in 40CFR§63.1367(f)(1) through (6).
(1) Records identifying all parts of the vapor collection system, closed-vent system, fixed roof, cover, or enclosure that are designated as unsafe to inspect in accordance with 40CFR§63.1366(h)(6), an explanation of why the equipment is unsafe-to-inspect, and the plan for inspecting the equipment.
(2) Records identifying all parts of the vapor collection system, closed-vent system, fixed roof, cover, or enclosure that are designated as difficult-to-inspect in accordance with 40CFR§63.1366(h)(7), an explanation of why the equipment is difficult-to-inspect, and the plan for inspecting the equipment.
(3) For each vapor collection system or closed-vent system that contains bypass lines that could divert a vent stream away from the control device and to the atmosphere, the owner or operator shall keep a record of the information specified in either 40CFR§63.1367(f)(3)(i) or (ii) of this section.
(i) Hourly records of whether the flow indicator specified under 40CFR§63.1362(j)(1) was operating and whether a diversion was detected at any time during the hour, as well as records of the times and durations of all periods when the vent stream is diverted from the control device or the flow indicator is not operating.
(ii) Where a seal mechanism is used to comply with 40CFR§63.1362(j)(2), hourly records of flow are not required. In such cases, the owner or operator shall record that the monthly visual inspection of the seals or closure mechanisms has been done and shall record the occurrence of all periods when the seal mechanism is broken, the bypass line valve position has changed, or the key for a lock-and key type lock has been checked out, and records of any car-seal that has broken.
(4) For each inspection conducted in accordance with 40CFR§63.1366(h)(2) and (3) during which a leak is detected, a record of the information specified in 40CFR§63.1367(f)(4)(i) through (ix).
(i) Identification of the leaking equipment.
(ii) The instrument identification numbers and operator name or initials, if the leak was detected using the procedures described in 40CFR§63.1366(h)(3); or a record of that the leak was detected by sensory observations.
(iii) The date the leak was detected and the date of the first attempt to repair the leak.
(iv) Maximum instrument reading measured by the method specified in 40CFR§63.1366(h)(4) after the leak is successfully repaired or determined to be nonrepairable.
(v) ``Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak.
(vi) The name, initials, or other form of identification of the owner or operator (or designee) whose decision it was that repair could not be effected without a shutdown.
(vii) The expected date of successful repair of the leak if a leak is not repaired within 15 calendar days.
(viii) Dates of shutdowns that occur while the equipment is unrepaired.
(ix) The date of successful repair of the leak.
(5) For each inspection conducted in accordance with 40CFR§63.1366(h)(3) during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks

were detected.
(6) For each visual inspection conducted in accordance with 40CFR§63.1366(h)(2)(i)(B) or (iii)(B) during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected.
(g) Records of primary use. For a PAI process unit that is used to produce a given material for use as a PAI as well as for other purposes, the owner or operator shall keep records of the total production and the production for use as a PAI on a semiannual or more frequent basis if the use as a PAI is not the primary use.
[45CSR34, 40CFR§63.1367]

4.5. Reporting Requirements

4.5.1. Equipment Leaks:
(h) Reporting Requirements.
(1) Each owner or operator of a source subject to this section shall submit the reports listed in 40CFR§63.1363(h)(1)(i) and (ii).
(i) A Notification of Compliance Status report described in 40CFR§63.1363(h)(2), and
(ii) Periodic reports described in 40CFR§63.1363(h)(3).
(2) Notification of compliance status report. Each owner or operator of a source subject to this section shall submit the information specified in 40CFR§63.1363(h)(2)(i) through (iii) in the Notification of Compliance Status report described in 40CFR§63.1368(f). §63.9(j) of subpart A of this part shall not apply to the Notification of Compliance Status report.
(i) The notification shall provide the information listed in 40CFR§63.1363(h)(2)(i)(A) through (C) for each group of processes subject to the requirements of 40CFR§63.1363(b) through (g).
(A) Identification of the group of processes.
(B) Approximate number of each equipment type (e.g., valves, pumps) in organic HAP service, excluding equipment in vacuum service.
(C) Method of compliance with the standard (for example, ``monthly leak detection and repair" or ``equipped with dual mechanical seals").
(ii) The notification shall provide the information listed in 40CFR§63.1363(h)(2)(ii)(A) and (B) for each process subject to the requirements of 40CFR§63.1363(b)(3)(iv) of this section and 40CFR§63.178(b) of subpart H of this part.
(A) Products or product codes subject to the provisions of this section, and
(B) Planned schedule for pressure testing when equipment is configured for production of products subject to the provisions of this section.
(iii) The notification shall provide the information listed in 40CFR§63.1363(h)(2)(iii)(A) and (B) for each process subject to the requirements in 40CFR§63.179 of subpart H of this part.
(A) Process identification.
(B) A description of the system used to create a negative pressure in the enclosure and the control device used to comply with the requirements of 40CFR§63.1363(b)(3)(ii).
(3) Periodic reports. The owner or operator of a source subject to this section shall submit Periodic reports.
(i) A report containing the information in 40CFR§63.1363(h)(3)(ii), (iii), and (iv) shall be submitted semiannually. The first Periodic report shall be submitted no later than 240 days after the date the Notification of Compliance Status report is due and shall cover the 6-month period beginning on the date the Notification of Compliance Status report is due. Each subsequent Periodic report shall cover the 6-month period following the preceding period.
(ii) For equipment complying with the provisions of 40CFR§63.1363(b) through (g), the Periodic report shall contain the summary information listed in 40CFR§63.1363(h)(3)(ii)(A) through (L) for each monitoring period during the 6-month period.
(A) The number of valves for which leaks were detected as described in 40CFR§63.1363(e)(2), the percent leakers, and the total number of valves monitored;
(B) The number of valves for which leaks were not repaired as required in 40CFR§63.1363(e)(7), identifying the number of those that are determined nonrepairable;
(C) The number of pumps and agitators for which leaks were detected as described in 40CFR§63.1363(c)(2),

the percent leakers, and the total number of pumps and agitators monitored;
(D) The number of pumps and agitators for which leaks were not repaired as required in 40CFR§63.1363(c)(3);
(E) The number of compressors for which leaks were detected as described in 40CFR§63.164(f) of subpart H of this part;
(F) The number of compressors for which leaks were not repaired as required in 40CFR§63.164(g) of subpart H of this part;
(G) The number of connectors for which leaks were detected as described in 40CFR§63.174(a) of subpart H of this part, the percent of connectors leaking, and the total number of connectors monitored;
(H) The number of connectors for which leaks were not repaired as required in 40CFR§63.174(d) of subpart H of this part, identifying the number of those that are determined nonrepairable;
(I) The facts that explain any delay of repairs and, where appropriate, why a process shutdown was technically infeasible.
(J) The results of all monitoring to show compliance with 40CFR§63.164(i), 63.165(a), and 63.172(f) of subpart H of this part conducted within the semiannual reporting period.
(K) If applicable, the initiation of a monthly monitoring program under either 40CFR§63.1363(c)(4)(ii) or 40CFR§63.1363(e)(4)(i)(A).
(L) If applicable, notification of a change in connector monitoring alternatives as described in 40CFR§63.174(c)(1) of subpart H of this part.
(iii) For owners or operators electing to meet the requirements of 40CFR§63.178(b) of subpart H of this part, the Periodic report shall include the information listed in 40CFR§63.1363(h)(3)(iii) (A) through (E) for each process.
(A) Product process equipment train identification;
(B) The number of pressure tests conducted;
(C) The number of pressure tests where the equipment train failed either the retest or two consecutive pressure tests;
(D) The facts that explain any delay of repairs; and
(E) The results of all monitoring to determine compliance with 40CFR§63.172(f) of subpart H of this part.
(iv) Any change in the information submitted under 40CFR§63.1363(h)(2) shall be provided in the next Periodic report.
[45CSR34, 40CFR§63.1363(h) (fugitive emissions)]

4.5.2. (a) The owner or operator of an affected source shall comply with the reporting requirements of 40CFR§63.1368(b) through (l). The owner or operator shall also comply with applicable paragraphs of 40CFR§63.9 and 63.10 of subpart A of this part, as specified in Subpart MMM, Table 1.
(g) Periodic reports. The owner or operator shall prepare Periodic reports in accordance with 40CFR§63.1368(g)(1) and (2) and submit them to the Administrator.
(1) Submittal schedule. Except as provided in 40CFR§63.1368(g)(1)(i) and (ii), the owner or operator shall submit Periodic reports semiannually. The first report shall be submitted no later than 240 days after the date the Notification of Compliance Status report is due and shall cover the 6-month period beginning on the date the Notification of Compliance Status report is due. Each subsequent Periodic report shall cover the 6-month period following the preceding period and shall be submitted no later than 60 days after the end of the applicable period.
(i) The Administrator may determine on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the affected source.
(ii) Quarterly reports shall be submitted when the monitoring data are used to comply with the alternative standards in 40CFR§63.1362(b)(6) or (c)(4) and the source experiences excess emissions. Once an affected source reports excess emissions, the affected source shall follow a quarterly reporting format until a request to reduce reporting frequency is approved. If an owner or operator submits a request to reduce the frequency of reporting, the provisions in 40CFR§63.10(e)(3) (ii) and (iii) of subpart A of this part shall apply, except that the term ``excess emissions and continuous monitoring system performance report and/or summary report" shall mean ``Periodic report" for the purposes of this section.
(2) Content of periodic report. The owner or operator shall include the information in 40CFR§63.1368(g)(2)(i) through (xii), as applicable.

(i) Each Periodic report must include the information in 40CFR§63.10(e)(3)(vi)(A) through (M) of subpart A of this part, as applicable.
(ii) If the total duration of excess emissions, parameter exceedances, or excursions for the reporting period is 1 percent or greater of the total operating time for the reporting period, or the total continuous monitoring system downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the Periodic report must include the information in 40CFR§63.1368(g)(2)(ii)(A) through (D).
(A) Monitoring data, including 15-minute monitoring values as well as daily average values of monitored parameters, for all operating days when the average values were outside the ranges established in the Notification of Compliance Status report or operating permit.
(B) Duration of excursions, as defined in 40CFR§63.1366(b)(7).
(C) Operating logs and operating scenarios for all operating days when the values are outside the levels established in the Notification of Compliance Status report or operating permit.
(iii) For each vapor collection system or closed vent system with a bypass line subject to 40CFR§63.1362(j)(1), records required under 40CFR§63.1366(f) of all periods when the vent stream is diverted from the control device through a bypass line. For each vapor collection system or closed vent system with a bypass line subject to 40CFR§63.1362(j)(2), records required under 40CFR§63.1366(f) of all periods in which the seal mechanism is broken, the bypass valve position has changed, or the key to unlock the bypass line valve was checked out.
(iv) The information in 40CFR§63.1368(g)(2)(iv)(A) through (D) shall be stated in the Periodic report, when applicable.
(A) No excess emissions.
(B) No exceedances of a parameter.
(C) No excursions.
(D) No continuous monitoring system has been inoperative, out of control, repaired, or adjusted.
(v) For each storage vessel subject to control requirements:
(A) Actual periods of planned routine maintenance during the reporting period in which the control device does not meet the specifications of 40CFR§63.1362(c)(5); and
(B) Anticipated periods of planned routine maintenance for the next reporting period.
(vi) For each PAI process unit that does not meet the definition of primary use, the percentage of the production in the reporting period produced for use as a PAI.
(viii) Updates to the corrective action plan.
(ix) Records of process units added to each process unit group, if applicable.
(x) Records of redetermination of the primary product for a process unit group.
(xi) For each inspection conducted in accordance with 40CFR§63.1366(h)(2) or (3) during which a leak is detected, the records specify in 40CFR§63.1367(h)(4) must be included in the next Periodic report.
(xii) If the owner or operator elects to comply with the provisions of 40CFR§63.1362(c) by installing a floating roof, the owner or operator shall submit the information specified in 40CFR§63.122(d) through (f) as applicable. References to 40CFR§63.152 in 40CFR§63.122 shall not apply for the purposes of this subpart.
(h) Notification of process change.
(1) Except as specified in 40CFR§63.1368(h)(2), whenever a process change is made, or any of the information submitted in the Notification of Compliance Status report changes, the owner or operator shall submit the information specified in 40CFR§63.1368(h)(1)(i) through (iv) with the next Periodic report required under 40CFR§63.1368(g). For the purposes of this section, a process change means the startup of a new process, as defined in 40CFR§63.1361.
(i) A brief description of the process change;
(ii) A description of any modifications to standard procedures or quality assurance procedures;
(iii) Revisions to any of the information reported in the original Notification of Compliance Status report under 40CFR§63.1368(f); and
(iv) Information required by the Notification of Compliance Status report under 40CFR§63.1368(f) for changes involving the addition of processes or equipment.
(2) The owner or operator must submit a report 60 days before the scheduled implementation date of either of the following:
(i) Any change in the activity covered by the Precompliance report.
(ii) A change in the status of a control device from small to large.

(i) Reports of startup, shutdown, and malfunction. For the purposes of this subpart, the startup, shutdown, and malfunction reports shall be submitted on the same schedule as the Periodic reports required under paragraph (g) of this section instead of the schedule specified in 40CFR§63.10(d)(5)(i) of subpart A of this part. These reports shall include the information specified in 40CFR§63.1367(a)(3)(i) through (iii) and shall contain the name, title, and signature of the owner or operator or other responsible official who is certifying its accuracy. Reports are only required if a startup, shutdown, or malfunction occurred during the reporting period. Any time an owner or operator takes an action that is not consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the owner or operator shall submit an immediate startup, shutdown, and malfunction report as specified in 40CFR§63.10(d)(5)(ii) of subpart A of this part.
(j) Reports of equipment leaks. The owner or operator of an affected source subject to the standards in 40CFR§63.1363, shall implement the reporting requirements specified in 40CFR§63.1363(h). Copies of all reports shall be retained as records for a period of 5 years, in accordance with the requirements of 40CFR§63.10(b)(1) of subpart A of this part.
(l) Reports of heat exchange systems. The owner or operator of an affected source subject to the requirements for heat exchange systems in 40CFR§63.1362(f) shall submit information about any delay of repairs as specified in 40CFR§63.104(f)(2) of subpart F of this part, except that when the phrase ``periodic reports required by 40CFR§63.152(c) of subpart G of this part'' is referred to in 40CFR§63.104(f)(2) of subpart F of this part, the periodic reports required in 40CFR§63.1368(g) shall apply for the purposes of this subpart.
(m) Notification of performance test and test Plan. The owner or operator of an affected source shall notify the Administrator of the planned date of a performance test at least 60 days before the test in accordance with 40CFR§63.7(b) of subpart A of this part. The owner or operator also must submit the test Plan required by 40CFR§63.7(c) of subpart A of this part and the emission profile required by 40CFR§63.1365(b)(10)(ii) with the notification of the performance test.
(n) Request for extension of compliance. The owner or operator may submit to the Administrator a request for an extension of compliance in accordance with 40CFR§63.1364(a)(2).
(o) The owner or operator who submits an operating permit application before the date the Emissions Averaging Plan is due shall submit the information specified in 40CFR§63.1368(o)(1) through (3) with the operating permit application instead of the Emissions Averaging Plan.
(1) The information specified in 40CFR§63.1367(d) for emission points included in the emissions average;
(2) The information specified in 40CFR§63.9(h) of subpart A of this part, as applicable; and
(3) The information specified in 40CFR§63.1368(e), as applicable.
[45CSR13, 45CSR34, Permit No. R13-0798 and 40CFR§63.1368]

4.6. Compliance Plan

None

5.0 Source-Specific Requirements [Carbosulfan Unit]

5.1. Limitations and Standards

5.1.1. The Carbosulfan Unit shall be comprised of the emission sources, pollution control equipment, and associated emission points listed under the Carbosulfan section in the 1.0 Emission Units of this permit.
[45CSR13, Permit No. R13-2413 (Condition A.1.)]

5.1.2. The Carbosulfan Unit functions as a batch operation that shall be limited to a maximum 645 production batches of product per year.
[45CSR13, Permit No. R13-2413 (Condition A.2.)]

5.1.3. Emissions released from the Carbosulfan Unit during routine production operations shall be limited to the emission points, pollutants, and associated emission rates shown in Table A.3.

Table A.3.

Emission Point	Pollutant		Potential Emissions	
			Hourly (lbs/hr)	Annual (TPY*)
320K	VOC	n-Hexane[2]	12.53	17.13
		Triethylamine[2]	8.1	1.44
		Pentanes	12.04	16.46
		R-3[1]	0.21	0.015
		Carbosulfan	1.0	0.001
	SO_2		21.97	1.18
320L	VOC	Ethylene Glycol[2]	0.006	0.026
320M	VOC	n-Hexane[2]	1.72	0.003
		R-3[1]	0.05	0.001
320N	VOC	n-Hexane[2]	2.0	0.16
		R-3[1]	0.07	0.006
320P	VOC	Triethylamine[2]	0.05	0.004
320Q	VOC	n-Hexane[2]	0.24	0.032
320R	VOC	n-Hexane[2]	1.16	0.28

* - The facility shall not exceed the annual emissions listed in Table A.3. during any consecutive 12 month period.
1 - Carbosulfan Unit Material Code for non-hazardous VOC. Actual name of VOC deemed confidential per 45CSR31.
2 - Pollutant recognized as a hazardous air pollutant.
[45CSR13, Permit No. R13-2413 (Condition A.3.) (320K, L, M, N, P, Q, R)]

5.1.4. The pollution control equipment identified below shall be installed, operated, and maintained so to provide the minimum guaranteed control efficiencies for each of the associated pollutants as shown in Table A.4.

Table A.4.

Control Device ID	Description	Pollution Control Efficiency (%)					
		n-Hexane	Triethylamine	Pentanes	R-3[1]	R-12[1]	SO_2
E-1302	Vent Condenser	67.5	69.1	67.5	79.0	76.3	0.0
C-1304	Acid Scrubber	0.0	90.0	0.0	90.0	0.0	0.0
C-1305	Caustic Scrubber	0.0	0.0	0.0	0.0	90.0	90.0
C-1306 A/B	Carbon Adsorber	70.0	60.0	70.0	0.0	0.0	0.0
C-1306 C/D	Carbon Adsorber	70.0	60.0	70.0	0.0	0.0	0.0
C-1306 E	Mobile Carbon Bed	70.0	60.0	70.0	0.0	0.0	0.0

1 - Carbosulfan Unit Material Code for non-hazardous VOC. Actual name of VOC deemed confidential per 45CSR31.

[45CSR13, Permit No. R13-2413 (Condition A.4.) (E-1302, C-1304, C-1305, C-1306A/B/C/D/E)]

5.1.5. The Condenser, E-1302, shall operate under routine conditions with an exit vapor temperature not to exceed 50 ^{O}F.

[45CSR13, Permit No. R13-2413 (Condition A.5.) (E-1302)]

5.1.6. The liquid flow rate during routine operating conditions through the wet scrubbers, C-1304 and C-1305, shall be maintained at a minimum rate of 30 gallons per minute or higher.

[45CSR13, Permit No. R13-2413 (Condition A.6.) (C-1304, C-1305)]

5.1.7. The pH of the liquor effluent through the Acid Scrubber, C-1304, shall be maintained at a level less than or equal to 4.0.

[45CSR13, Permit No. R13-2413 (Condition A.7.) (C-1304)]

5.1.8. The pH of the liquor effluent through the Caustic Scrubber, C-1305, shall be maintained at a level equal to or greater than 4.0.

[45CSR13, Permit No. R13-2413 (Condition A.8.) (C-1305)]

5.1.9. The Carbosulfan Unit shall employ two (2) pair of carbon adsorption beds, C-1306 A/B and C-1306 C/D, where each of the pairs shall function as two units in series.

[45CSR13, Permit No. R13-2413 (Condition A.9.) (C-1306A/B/C/D)]

5.1.10. The Carbon Adsorption Beds, C-1306 A/B and C-1306 C/D, shall maintain, during each regeneration cycle, a volumetric stream flow rate of 3,000 standard cubic feet or higher.
[45CSR13, Permit No. R13-2413 (Condition A.10.) (C-1306A/B/C/D)]

5.1.11. The maximum bed temperature of the Carbon Adsorption Beds, C-1306 A/B and C-1306 C/D, shall not exceed a maximum 250 ^{O}F during a regeneration cycle. The bed temperature of C-1306 A/B shall be at or below 150 ^{O}F within 15 minutes of completing a cooling cycle. The bed temperature of C-1306 C/D shall be at or below 100 ^{O}F within 15 minutes of completing a cooling cycle.
[45CSR13, Permit No. R13-2413 (Condition A.11.) (C-1306A/B/C/D)]

5.1.12. The Carbon Adsorption Beds, C-1306 A/B and C-1306 C/D, shall undergo physical replacement within a maximum of 96 days of actual operation.
[45CSR13, Permit No. R13-2413 (Condition A.12.) (C-1306A/B/C/D)]

5.1.13. The Non-regenerative Mobile Carbon Adsorber, C-1306 E, shall undergo physical replacement within a maximum of 20 hours of actual operation.
[45CSR13, Permit No. R13-2413 (Condition A.13.) (C-1306A/B/C/D)]

5.1.14. Equipment Leaks:
The permittee shall comply with the provisions pertaining to fugitive volatile organic compound (VOC) emissions within 40 CFR 63, Subpart H as specified in 40CFR§63.1363 of 40 CFR 63, Subpart MMM.
[45CSR13, 45CSR34, Permit No. R13-2413 (Condition A.14.) and 40CFR§63.1363 (Fugitive Emissions)]

5.1.15. 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.
[45CSR13, Permit No. R13-2413 (Condition B.2.) and 45CSR§7-3.7. (320K)]

5.1.16. 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.
[45CSR13, Permit No. R13-2413 (Condition B.2.) and 45CSR§7-5.1.]

Note: For following paragraphs, any reference to "this subpart" shall mean 40C.F.R.63 Subpart MMM, any reference to "this part" shall mean 40C.F.R.Part 63.

5.1.17. Process Vents:
(a) The Permittee shall control HAP emissions to the levels specified in this section.
(b) Process Vents.
(1) The owner or operator of an existing source shall comply with the requirements of 40CFR§63.1362(b)(2) or (b)(6). Compliance with 40CFR§63.1362(b)(2) through (b)(5) shall be demonstrated through the applicable test methods and the monitoring requirements in 40CFR§63.1366.
(2) Organic HAP emissions from existing sources. The owner or operator of an existing affected source must comply with the requirements in either 40CFR§63.1362(b)(2)(i) or with the requirements in 40CFR§63.1362(b)(2)(ii) through (iv).
(i) The uncontrolled organic HAP emission rate shall not exceed 0.15 Mg/yr from the sum of all process vents within a process.
(ii) (A) Except as provided in 40CFR§63.1362(b)(2)(ii)(B), uncontrolled organic HAP emissions from a

process vent shall be reduced by 98 percent by weight or greater if the flowweighted average flowrate for the vent as calculated using Equation 1 of this subpart is less than or equal to the flowrate calculated using Equation 2 of this subpart.

$$FR_a = \frac{\sum_{i=1}^{n} (D_i)(FR_i)}{\sum_{i=1}^{n} D_i} \qquad \text{Equation 1}$$

$$FR = 0.02 \times (HL) - 1{,}000 \qquad \text{Equation 2}$$

Where:

FR_a = flow-weighted average flowrate for the vent, scfm
D_i = duration of each emission event, min
FR_i = flowrate of each emission event, scfm
n = number of emission events
FR = flowrate, scfm
HL = annual uncontrolled organic HAP emissions, lb/yr, as defined in 40CFR§63.1361

(iii) Excluding process vents that are subject to the requirements in 40CFR§63.1362(b)(2)(ii), uncontrolled organic HAP emissions from the sum of all process vents within a process shall be reduced by 90 percent or greater by weight.
(iv) As an alternative to the requirements in 40CFR§63.1362(b)(2)(ii) and (iii), uncontrolled organic HAP emissions from any process vent may be reduced in accordance with any of the provisions in 40CFR§63.1362(b)(2)(iv)(A) through (D). All remaining process vents within a process must be controlled in accordance with 40CFR§63.1362(b)(2)(ii) and (iii).
(A) To outlet concentrations less than or equal to 20 ppmv; or
(B) By a flare that meets the requirements of 40CFR§63.11(b); or
(C) By a control device specified in 40CFR§63.1365(a)(4); or
(D) In accordance with the alternative standard specified in 40CFR§63.1362(b)(6).
(6) Alternative standard. As an alternative to the provisions in paragraphs (b)(2) of this section, the owner or operator may route emissions from a process vent to a combustion control device achieving an outlet TOC concentration, as calibrated on methane or the predominant HAP, of 20 ppmv or less. If the owner or operator is routing emissions to a non-combustion control device or series of control devices, the control device(s) must achieve an outlet TOC concentration, as calibrated on methane or the predominant HAP, of 50 ppmv or less. Any process vents within a process that are not routed to such a control device or series of control devices must be controlled in accordance with the provisions of paragraph (b)(2)(ii), (iii), or (iv) of this section, as applicable.
[45CSR13, 45CSR34, Permit No. R13-2413 (Condition B.8.) and 40CFR§63.1362(b)]

5.1.18. Storage Vessels:

(a) The Permittee shall control HAP emissions to the levels specified in this section.

(c) Storage Vessels.

(1)The owner or operator shall either determine the group status of a storage vessel or designate it as a Group 1 storage vessel. If the owner or operator elects to designate the storage vessel as a Group 1 storage vessel, the owner or operator is not required to determine the maximum true vapor pressure of the material stored in the storage vessel.
(2) Standard for existing sources. Except as specified in 40CFR§63.1362(c)(4), (5), and (6), the owner or operator of a Group 1 storage vessel at an existing affected source, as defined in 40CFR§63.1361, shall equip the affected storage vessel with one of the following:
(i) A fixed roof and internal floating roof, or

(ii) An external floating roof, or
(iii) An external floating roof converted to an internal floating roof, or
(iv) A closed vent system meeting the conditions of 40CFR§63.1362(j) and a control device that meets any of the following conditions:
(A) Reduces organic HAP emissions by 95 percent by weight or greater; or
(B) Reduces organic HAP emissions to outlet concentrations of 20 ppmv or less; or
(C) Is a flare that meets the requirements of 40CFR§63.11(b); or
(D) Is a control device specified in 40CFR§63.1365(a)(4).
(3) Standard for new sources. Except as specified in 40CFR§63.1362(c)(4), (5), and (6), the owner or operator of a Group 1 storage vessel at a new source, as defined in 40CFR§63.1361, shall equip the affected storage vessel in accordance with any one of 40CFR§63.1362(c)(2)(i) through (iv).
(4) Alternative standard. As an alternative to the provisions in 40CFR§63.1362(c)(2) and (3), the owner or operator of an existing or new affected source may route emissions from storage vessels to a combustion control device achieving an outlet TOC concentration, as calibrated on methane or the predominant HAP, of 20 ppmv or less, and an outlet concentration of hydrogen chloride and chlorine of 20 ppmv or less. If the owner or operator is routing emissions to a non-combustion control device or series of control devices, the control device(s) must achieve an outlet TOC concentration, as calibrated on methane or the predominant HAP, of 50 ppmv or less.
(5) Planned routine maintenance. The owner or operator is exempt from the specifications in 40CFR§63.1362(c)(2) through (4) during periods of planned routine maintenance of the control device that do not exceed 240 hr/yr. The owner or operator may submit an application to the Administrator requesting an extension of this time limit to a total of 360 hr/yr. The application must explain why the extension is needed, it must indicate that no material will be added to the storage vessel between the time the 240-hr limit is exceeded and the control device is again operational, and it must be submitted at least 60 days before the 240-hr limit will be exceeded.
(6) Vapor balancing alternative. As an alternative to the requirements in 40CFR§63.1362(c)(2) and (3) of this section, the owner or operator of an existing or new affected source may implement vapor balancing in accordance with 40CFR§63.1362(c)(6)(i) through (vii).
(i) The vapor balancing system must be designed and operated to route organic HAP vapors displaced from loading of the storage tank to the railcar or tank truck from which the storage tank is filled.
(ii) Tank trucks and railcars must have a current certification in accordance with the U.S. Department of Transportation pressure test requirements of 49 CFR part 180 for tank trucks and 49 CFR 173.31 for railcars.
(iii) Hazardous air pollutants must only be unloaded from tank trucks or railcars when vapor collection systems are connected to the storage tank's vapor collection system.
(iv) No pressure relief device on the storage tank or on the railcar or tank truck shall open during loading or as a result of diurnal temperature changes (breathing losses).
(v) Pressure relief devices on affected storage tanks must be set to no less than 2.5 psig at all times to prevent breathing losses. The owner or operator shall record the setting as specified in 40CFR§63.1367(b)(8) and comply with the following requirements for each pressure relief valve:
(A) The pressure relief valve shall be monitored quarterly using the method described in 40CFR§63.180(b).
(B) An instrument reading of 500 ppmv or greater defines a leak.
(C) When a leak is detected, it shall be repaired as soon as practicable, but no later than 5 days after it is detected, and the owner or operator shall comply with the recordkeeping requirements of 40CFR§63.1363(g)(4)(i) through (iv).
(vi) Railcars or tank trucks that deliver HAP to an affected storage tank must be reloaded or cleaned at a facility that utilizes one of the following control techniques:
(A) The railcar or tank truck must be connected to a closed vent system with a control device that reduces inlet emissions of HAP by 90 percent by weight or greater; or
(B) A vapor balancing system designed and operated to collect organic HAP vapor displaced from the tank truck or railcar during reloading must be used to route the collected HAP vapor to the storage tank from which the liquid being transferred originated.
(vii) The owner or operator of the facility where the railcar or tank truck is reloaded or cleaned must comply with the following requirements:

(A) Submit to the owner or operator of the affected storage tank and to the Administrator a written certification that the reloading or cleaning facility will meet the requirements of this section. The certifying entity may revoke the written certification by sending a written statement to the owner or operator of the affected storage tank giving at least 90 days notice that the certifying entity is rescinding acceptance of responsibility for compliance with the requirements of 40CFR§63.1362(c)(6)(vii)(A).
(B) If complying with 40CFR§63.1362(c)(6)(vi)(A), demonstrate continuous compliance in accordance with 40CFR§63.1366, keep records as specified in 40CFR§63.1367, and prepare reports as specified in 40CFR§63.1368.
(C) If complying with 40CFR§63.1362(c)(6)(vi)(B), keep records of:
(1) The equipment to be used and the procedures to be followed when reloading the railcar or tank truck and displacing vapors to the storage tank from which the liquid originates, and
(2) Each time the vapor balancing system is used to comply with 40CFR§63.1362(c)(6)(vi)(B).
(7) Compliance with the provisions of 40CFR§63.1362(c)(2) and (3) is demonstrated using the monitoring requirements in 40CFR§63.1366. Compliance with the outlet concentrations in 40CFR§63.1362(c)(4) shall be determined by the continuous emission monitoring requirements of 40CFR§63.1366(b)(5).
[45CSR13, 45CSR34, Permit No. R13-2413 (Condition B.8.) and 40CFR§63.1362(c)]

5.1.19. Heat Exchange Systems:

(a) The Permittee shall control HAP emissions to the levels specified in this section.

(f) Heat exchange systems. Unless one or more of the conditions specified in 40CFR§63.104(a)(1) through (6) of subpart F of this part are met, an owner or operator shall monitor each heat exchange system that is used to cool process equipment in PAI process units that are part of an affected source as defined in 40CFR§63.1360(a) according to the provisions in either 40CFR§63.104(b) or (c) of subpart F of this part. When the term ``chemical manufacturing process unit'' is used in 40CFR§63.104(c) of subpart F of this part, the term ``PAI process unit'' shall apply for the purposes of this subpart. Whenever a leak is detected, the owner or operator shall comply with the requirements in 40CFR§63.104(d) of subpart F of this part. Delay of repair of heat exchange systems for which leaks have been detected is allowed in accordance with the provisions of 40CFR§63.104(e) of subpart F of this part.
[45CSR13, 45CSR34, Permit No. R13-2413 (Condition B.8.) and 40CFR§63.1362(f)]

5.1.20. Closed-vent Systems:

(a) The Permittee shall control HAP emissions to the levels specified in this section.

(j) Closed-vent systems. The owner or operator of a closed-vent system that contains bypass lines that could divert a vent stream away from a control device used to comply with the requirements in 40CFR§63.1362(b) through (d) shall comply with the requirements of Table 3 of this subpart and 40CFR§63.1362(j)(1) or (2). Equipment such as low leg drains, high point bleeds, analyzer vents, open-ended valves or lines, rupture disks and pressure relief valves needed for safety purposes are not subject to this paragraph.
(1) Install, calibrate, maintain, and operate a flow indicator that determines whether vent stream flow is present at least once every 15 minutes. Records shall be maintained as specified in 40CFR§63.1367(f)(1). The flow indicator shall be installed at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere; or
(2) Secure the bypass line valve in the closed position with a car seal or lock and key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Records shall be maintained as specified in 40CFR§63.1367(f)(2).
[45CSR13, 45CSR34, Permit No. R13-2413 (Condition B.8.) and 40CFR§63.1362(j)]

5.2. Monitoring Requirements

5.2.1. For the purpose of determining compliance with the control efficiencies and operating parameters as set forth in Conditions 5.1.4. and 5.1.5., the permittee shall perform measurements of the exit vapor temperature of vent condenser E-1302 at a rate of at least one reading per fifteen (15) minute period of operation. This information shall be maintained on-site for a period of no less than five (5) years and made available to the Director or his duly authorized representative upon request. At a time prior to being submitted to the Director, all records shall be certified and signed by a "Responsible Official" utilizing a Certification of Data Accuracy statement.
[45CSR13, Permit No. R13-2413 (Condition B.4.) (E-1302)]

5.2.2. For the purpose of determining compliance with the control efficiencies and operating parameters as set forth in Conditions 5.1.4., 5.1.6., 5.1.7., and 5.1.8., the permittee shall perform scrubber liquor flow measurements at least once per fifteen (15) minutes period of operation through wet scrubbers C-1304 and C-1305 and daily pH measurements of the liquor effluent. This information shall be maintained on-site for a period of no less than five (5) years and made available to the Director or his duly authorized representative upon request. At a time prior to being submitted to the Director, all records shall be certified and signed by a "Responsible Official" utilizing a Certification of Data Accuracy statement.
[45CSR13, Permit No. R13-2413 (Condition B.5.) (C-1304, C-1305)]

5.2.3. For the purpose of determining compliance with the control efficiencies and operating parameters as set forth in Conditions 5.1.4., 5.1.9., 5.1.10., 5.1.11., and 5.1.12., the permittee shall conduct the following measurements during each regeneration cycle of the carbon adsorption beds, C-1306 A/B and C-1306 C/D: the total volumetric flow measurement of the regeneration stream, the maximum bed temperature, and the duration since the last regeneration cycle was performed. In addition, the permittee shall record the bed temperature of the units after each cooling cycle within fifteen (15) minutes of completing the cycle. This information shall be maintained on-site for a period of no less than five (5) years and made available to the Director or his duly authorized representative upon request. At a time prior to being submitted to the Director, all records shall be certified and signed by a "Responsible Official" utilizing a Certification of Data Accuracy statement.
[45CSR13, Permit No. R13-2413 (Condition B.6.) (C-1306A/B/C/D)]

5.2.4. For the purpose of determining compliance with the control efficiencies and operating parameters as set forth in Conditions 5.1.4. and 5.1.13., the permittee shall record the actual hours of operation of the mobile carbon adsorber, C-1306 E, since the last replacement. This information shall be maintained on-site for a period of no less than five (5) years and made available to the Director or his duly authorized representative upon request. At a time prior to being submitted to the Director, all records shall be certified and signed by a "Responsible Official" utilizing a Certification of Data Accuracy statement.
[45CSR13, Permit No. R13-2413 (Condition B.7.) (C-1306E)]

5.2.5. Control Device Monitoring:
(a) To provide evidence of continued compliance with the standard, the owner or operator of any existing or new affected source shall install, operate, and maintain monitoring devices as specified in this section. During the initial compliance demonstration, maximum or minimum operating parameter levels, or other design and operating characteristics, as appropriate, shall be established for emission sources that will indicate the source is in compliance. Test data, calculations, or information from the evaluation of the control device design, as applicable, shall be used to establish the operating parameter level or characteristic.
(b) Monitoring for control devices.
(1) Parameters to monitor. Except as specified in 40CFR§63.1366(b)(1)(i), for each control device, the owner or operator shall install and operate monitoring devices and operate within the established parameter levels to ensure continued compliance with the standard. Monitoring parameters are specified for control scenarios in

40CFR§63.1366(b)(1)(ii) through (xii), and are summarized in Table 3 of this subpart.
(i) Periodic verification. For control devices that control vent streams containing total HAP emissions less than 0.91 Mg/yr, before control, monitoring shall consist of a periodic verification that the device is operating properly. This verification shall include, but not be limited to, a daily or more frequent demonstration that the unit is working as designed and may include the daily measurements of the parameters described in 40CFR§63.1366(b)(1)(ii) through (xii). This demonstration shall be included in the Precompliance plan, to be submitted 6 months prior to the compliance date of the standard.

(ii) Scrubbers. For affected sources using liquid scrubbers, the owner or operator shall establish a minimum scrubber liquid flow rate or pressure drop as a site-specific operating parameter which must be measured and recorded at least once every 15 minutes during the period in which the scrubber is controlling HAP from an emission stream as required by the standards in 40CFR§63.1362. If the scrubber uses a caustic solution to remove acid emissions, the pH of the effluent scrubber liquid shall also be monitored once a day. The minimum scrubber liquid flow rate or pressure drop shall be based on the conditions under which the initial compliance demonstration was conducted.
(A) The monitoring device used to determine the pressure drop shall be certified by the manufacturer to be accurate to within a gage pressure of ±10 percent of the maximum pressure drop measured.
(B) The monitoring device used for measurement of scrubber liquid flowrate shall be certified by the manufacturer to be accurate to within ±10 percent of the design scrubber liquid flowrate.
(C) The monitoring device shall be calibrated annually.

(iii) Condensers. For each condenser, the owner or operator shall establish the maximum condenser outlet gas temperature as a site-specific operating parameter which must be measured and recorded at least once every 15 minutes during the period in which the condenser is controlling HAP from an emission stream as required by the standards in 40CFR§63.1362.
(A) The temperature monitoring device must be accurate to within ±2 percent of the temperature measured in degrees Celsius or ±2.5 °C, whichever is greater.
(B) The temperature monitoring device must be calibrated annually.

(iv) Regenerative carbon adsorbers. For each regenerative carbon adsorber, the owner or operator shall comply with the provisions in 40CFR§63.1366(b)(1)(iv)(A) through (F).
(A) Establish the regeneration cycle characteristics specified in 40CFR§63.1366(b)(1)(iv)(A) (1) through (4) under absolute or hypothetical peak-case conditions, as defined in 40CFR§63.1365(b)(11)(i) or (ii).
(1) Minimum regeneration frequency (i.e., operating time since last regeneration);
(2) Minimum temperature to which the bed is heated during regeneration;
(3) Maximum temperature to which the bed is cooled, measured within 15 minutes of completing the cooling phase; and
(4) Minimum regeneration stream flow.
(B) Monitor and record the regeneration cycle characteristics specified in 40CFR§63.1366(b)(1)(iv)(B)(1) through (4) for each regeneration cycle.
(1) Regeneration frequency (i.e., operating time since end of last regeneration);
(2) Temperature to which the bed is heated during regeneration;
(3) Temperature to which the bed is cooled, measured within 15 minutes of the completion of the cooling phase; and
(4) Regeneration stream flow.
(C) Use a temperature monitoring device that is accurate to within ±2 percent of the temperature measured in degrees Celsius or ±2.5 °C, whichever is greater.
(D) Use a regeneration stream flow monitoring device capable of recording the total regeneration stream flow to within ±10 percent of the established value (i.e., accurate to within ±10 percent of the reading).
(E) Calibrate the temperature and flow monitoring devices annually.
(F) Conduct an annual check for bed poisoning in accordance with manufacturer's specifications.
[45CSR13, 45CSR34, Permit No. R13-2413 (Condition B.8.) and 40CFR§63.1366(a) and (b) (E-1302, C-1304/5/6)]

5.3. Testing Requirements

None

5.4. Recordkeeping Requirements

5.4.1. For the purpose of determining compliance with the permit limits based on the maximum production rates and associated emission limits as described in Conditions 5.1.2 and 5.1.3, the permittee shall maintain monthly records of the number of batches produced and monthly calculate the actual emissions associated with the production. This information shall be maintained on-site for a period of no less than five (5) years and made available to the Director or his duly authorized representative upon request. At a time prior to being submitted to the Director, all records shall be certified and signed by a "Responsible Official" utilizing the attached Certification of Data Accuracy statement.
[45CSR13, Permit No. R13-2413 (Condition B.3.)]

5.4.2. Equipment Leaks:
(g) Recordkeeping requirements.
(1) An owner or operator of more than one group of processes subject to the provisions of this section may comply with the recordkeeping requirements for the groups of processes in one recordkeeping system if the system identifies with each record the program being implemented (e.g., quarterly monitoring) for each type of equipment. All records and information required by this section shall be maintained in a manner that can be readily accessed at the plant site. This could include physically locating the records at the plant site or accessing the records from a central location by computer at the plant site.
(2) General recordkeeping. Except as provided in 40CFR§63.1363(g)(5), the following information pertaining to all equipment subject to the requirements in this section shall be recorded:
(i)(A) A list of identification numbers for equipment (except instrumentation systems) subject to the requirements of this section. Connectors, except those subject to 40CFR§63.1363(f), need not be individually identified if all connectors in a designated area or length of pipe subject to the provisions of this section are identified as a group, and the number of subject connectors is indicated. The list for each type of equipment shall be completed no later than the completion of the initial survey required for that component. The list of identification numbers shall be updated, if needed, to incorporate equipment changes within 15 calendar days of the completion of each monitoring survey for the type of equipment component monitored.
(B) A schedule for monitoring connectors subject to the provisions of 40CFR§63.174(a) of subpart H of this part and valves subject to the provisions of 40CFR§63.1363(e)(4).
(C) Physical tagging of the equipment is not required to indicate that it is in organic HAP service. Equipment subject to the provisions of this section may be identified on a plant site plan, in log entries, or by other appropriate methods.
(ii)(A) A list of identification numbers for equipment that the owner or operator elects to equip with a closed-vent system and control device, under the provisions of 40CFR§63.1363(c)(7) or 40CFR§63.164(h) or 40CFR§63.165(c) of subpart H of this part.
(B) A list of identification numbers for compressors that the owner or operator elects to designate as operating with an instrument reading of less than 500 parts per million above background, under the provisions of 40CFR§63.164(i) of subpart H of this part.
(iii)(A) A list of identification numbers for pressure relief devices subject to the provisions in 40CFR§63.165(a) of subpart H of this part.
(B) A list of identification numbers for pressure relief devices equipped with rupture disks, under the provisions of 40CFR§63.165(d) of subpart H of this part.
(iv) Identification of instrumentation systems subject to the provisions of this section. Individual components in an instrumentation system need not be identified.
(v) The following information shall be recorded for each dual mechanical seal system:
(A) Design criteria required by 40CFR§63.1363(c)(5)(vi)(A) and 40CFR63.164(e)(2) of subpart H of this part,

and an explanation of the design criteria; and
(B) Any changes to these criteria and the reasons for the changes.
(vi) A list of equipment designated as unsafe-to-monitor or difficult-to-monitor under paragraph (f) of this section and a copy of the plan for monitoring this equipment.
(vii) A list of connectors removed from and added to the process, as described in 40CFR§63.174(i)(1) of subpart H of this part, and documentation of the integrity of the weld for any removed connectors, as required in 40CFR§63.174(j) of subpart H of this part. This is not required unless the net credits for removed connectors is expected to be used.
(viii) For batch processes that the owner or operator elects to monitor as provided under 40CFR§63.178(c) of subpart H of this part, a list of equipment added to batch product processes since the last monitoring period required in 40CFR§63.178(c)(3)(ii) and (iii) of subpart H of this part. This list must be completed for each type of equipment within 15 calendar days of the completion of the each monitoring survey for the type of equipment monitored.
(3) Records of visual inspections. For visual inspections of equipment subject to the provisions of 40CFR§63.1363(c)(2)(iii) and (c)(5)(iv), the owner or operator shall document that the inspection was conducted and the date of the inspection. The owner or operator shall maintain records as specified in 40CFR§63.1363(g)(4) for leaking equipment identified in this inspection, except as provided in 40CFR§63.1363(g)(5). These records shall be retained for 5 years.
(4) Monitoring records. When each leak is detected as specified in 40CFR§63.1363(c) and (e) and 40CFR§63.164, 63.169, 63.172, and 63.174 of subpart H of this part, the owner or operator shall record the information specified in 40CFR§63.1363(g)(4)(i) through (ix). All records shall be retained for 5 years, in accordance with the requirements of 40CFR§63.10(b)(1) of subpart A of this part.
(i) The instrument and the equipment identification number and the operator name, initials, or identification number.
(ii) The date the leak was detected and the date of first attempt to repair the leak.
(iii) The date of successful repair of the leak.
(iv) If postrepair monitoring is required, maximum instrument reading measured by Method 21 of 40CFR part 60, appendix A, after it is successfully repaired or determined to be nonrepairable.
(v) ``Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak.
(A) The owner or operator may develop a written procedure that identifies the conditions that justify a delay of repair. The written procedures may be included as part of the startup/shutdown/malfunction plan, required by 40CFR§63.1367(a), for the source or may be part of a separate document that is maintained at the plant site. Reasons for delay of repair may be documented by citing the relevant sections of the written procedure.
(B) If delay of repair was caused by depletion of stocked parts, there must be documentation that the spare parts were sufficiently stocked onsite before depletion and the reason for depletion.
(vi) If repairs were delayed, dates of process shutdowns that occur while the equipment is unrepaired.
(vii)(A) If the alternative in 40CFR§63.174(c)(1)(ii) of subpart H of this part is not in use for the monitoring period, identification, either by list, location (area or grouping), or tagging of connectors disturbed since the last monitoring period required in 40CFR§63.174(b) of subpart H of this part, as described in 40CFR§63.174(c)(1) of subpart H of this part.
(B) The date and results of follow-up monitoring as required in 40CFR§63.174(c) of subpart H of this part. If identification of disturbed connectors is made by location, then all connectors within the designated location shall be monitored.
(viii) The date and results of the monitoring required in 40CFR§63.178(c)(3)(i) of subpart H of this part for equipment added to a batch process since the last monitoring period required in 40CFR§63.178(c)(3)(ii) and (iii) of subpart H of this part. If no leaking equipment is found in this monitoring, the owner or operator shall record that the inspection was performed. Records of the actual monitoring results are not required.
(ix) Copies of the periodic reports as specified in 40CFR§63.1363(h)(3), if records are not maintained on a computerized data base capable of generating summary reports from the records.
(5) Records of pressure tests. The owner or operator who elects to pressure test a process equipment train and supply lines between storage and processing areas to demonstrate compliance with this section is exempt from the requirements of 40CFR§63.1363(g)(2), (3), (4), and (6). Instead, the owner or operator shall maintain

records of the following information:
(i) The identification of each product, or product code, produced during the calendar year. It is not necessary to identify individual items of equipment in the process equipment train.
(ii) Records demonstrating the proportion of the time during the calendar year the equipment is in use in the process that is subject to the provisions of this subpart. Examples of suitable documentation are records of time in use for individual pieces of equipment or average time in use for the process unit. These records are not required if the owner or operator does not adjust monitoring frequency by the time in use, as provided in 40CFR§63.178(c)(3)(iii) of subpart H of this part.
(iii) Physical tagging of the equipment to identify that it is in organic HAP service and subject to the provisions of this section is not required. Equipment in a process subject to the provisions of this section may be identified on a plant site plan, in log entries, or by other appropriate methods.
(iv) The dates of each pressure test required in 40CFR§63.178(b) of subpart H of this part, the test pressure, and the pressure drop observed during the test.
(v) Records of any visible, audible, or olfactory evidence of fluid loss.
(vi) When a process equipment train does not pass two consecutive pressure tests, the following information shall be recorded in a log and kept for 2 years:
(A) The date of each pressure test and the date of each leak repair attempt.
(B) Repair methods applied in each attempt to repair the leak.
(C) The reason for the delay of repair.
(D) The expected date for delivery of the replacement equipment and the actual date of delivery of the replacement equipment.
(E) The date of successful repair.
(6) Records of compressor and pressure relief valve compliance tests. The dates and results of each compliance test required for compressors subject to the provisions in 40CFR§63.164(i) of subpart H of this part and the dates and results of the monitoring following a pressure release for each pressure relief device subject to the provisions in 40CFR§63.165(a) and (b) of subpart H of this part. The results shall include:
(i) The background level measured during each compliance test.
(ii) The maximum instrument reading measured at each piece of equipment during each compliance test.
(7) Records for closed-vent systems. The owner or operator shall maintain records of the information specified in 40CFR§63.1363(g)(7)(i) through (iii) for closed-vent systems and control devices subject to the provisions of 40CFR§63.1363(b)(3)(ii). The records specified in 40CFR§63.1363(g)(7)(i) of this section shall be retained for the life of the equipment. The records specified in 40CFR§63.1363(g)(7)(ii) and (iii) shall be retained for 5 years.
(i) The design specifications and performance demonstrations specified in 40CFR§63.1363(g)(7)(i)(A) through (D).
(A) Detailed schematics, design specifications of the control device, and piping and instrumentation diagrams.
(B) The dates and descriptions of any changes in the design specifications.
(C) The flare design (i.e., steam assisted, air assisted, or nonassisted) and the results of the compliance demonstration required by 40CFR63.11(b) of subpart A of this part.
(D) A description of the parameter or parameters monitored, as required in 40CFR§63.1363(b)(3)(ii), to ensure that control devices are operated and maintained in conformance with their design and an explanation of why that parameter (or parameters) was selected for the monitoring.
(ii) Records of operation of closed-vent systems and control devices.
(A) Dates and durations when the closed-vent systems and control devices required in 40CFR§63.1363(c) and 40CFR§63.164 through 63.166 of subpart H of this part are not operated as designed as indicated by the monitored parameters, including periods when a flare pilot light system does not have a flame.
(B) Dates and durations during which the monitoring system or monitoring device is inoperative.
(C) Dates and durations of startups and shutdowns of control devices required in 40CFR§63.1363(c) and 40CFR§63.164 through 63.166 of subpart H of this part.
(iii) Records of inspections of closed-vent systems subject to the provisions of 40CFR§63.172 of subpart H of this part.
(A) For each inspection conducted in accordance with the provisions of 40CFR§63.172(f)(1) or (2) of subpart H of this part during which no leaks were detected, a record that the inspection was performed, the date of the

inspection, and a statement that no leaks were detected.
(B) For each inspection conducted in accordance with the provisions of 40CFR§63.172(f)(1) or (f)(2) of subpart H of this part during which leaks were detected, the information specified in 40CFR§63.1363(g)(4) shall be recorded.
(8) Records for components in heavy liquid service. Information, data, and analysis used to determine that a piece of equipment or process is in heavy liquid service shall be recorded. Such a determination shall include an analysis or demonstration that the process fluids do not meet the criteria of ``in light liquid or gas/vapor service.'' Examples of information that could document this include, but are not limited to, records of chemicals purchased for the process, analyses of process stream composition, engineering calculations, or process knowledge.
(9) Records of exempt components. Identification, either by list, location (area or group), or other method of equipment in organic HAP service less than 300 hr/yr subject to the provisions of this section.
(10) Records of alternative means of compliance determination. Owners and operators choosing to comply with the requirements of 40CFR§63.179 of subpart H of this part shall maintain the following records:
(i) Identification of the process(es) and the organic HAP they handle.
(ii) A schematic of the process, enclosure, and closed-vent system.
(iii) A description of the system used to create a negative pressure in the enclosure to ensure that all emissions are routed to the control device.
[45CSR13, 45CSR34, Permit No. R13-2413 (Condition A.14.) and 40CFR§63.1363(g) (fugitive emissions)]

5.4.3. (a) Requirements of subpart A of this part. The owner or operator of an affected source shall comply with the recordkeeping requirements in subpart A of this part as specified in Subpart MMM, Table 1 and in 40CFR§63.1367(a)(1) through (5).
(1) Data retention. Each owner or operator of an affected source shall keep copies of all records and reports required by this subpart for at least 5 years, as specified in 40CFR§63.10(b)(1) of subpart A of this part.
(3) Startup, shutdown, and malfunction plan. The owner or operator of an affected source shall develop and implement a written startup, shutdown, and malfunction plan as specified in 40CFR§63.6(e)(3) of subpart A of this part. This plan shall describe, in detail, procedures for operating and maintaining the affected source during periods of startup, shutdown, and malfunction and a program for corrective action for a malfunctioning process, air pollution control, and monitoring equipment used to comply with this subpart. The owner or operator of an affected source shall keep the current and superseded versions of this plan onsite, as specified in 40CFR§63.6(e)(3)(v) of subpart A of this part. The owner or operator shall keep the startup, shutdown, and malfunction records specified in 40CFR§63.1367(a)(3)(i) through (iii). Reports related to the plan shall be submitted as specified in 40CFR§63.1368(i).
(i) The owner or operator shall record the occurrence and duration of each malfunction of the process operations or of air pollution control equipment used to comply with this subpart, as specified in 40CFR§63.6(e)(3)(iii).
(ii) The owner or operator shall record the occurrence and duration of each malfunction of continuous monitoring systems used to comply with this subpart.
(iii) For each startup, shutdown, or malfunction, the owner or operator shall record all information necessary to demonstrate that the procedures specified in the affected source's startup, shutdown, and malfunction plan were followed, as specified in 40CFR§63.6(e)(3)(iii) of subpart A of this part; alternatively, the owner or operator shall record any actions taken that are not consistent with the plan, as specified in 40CFR§63.6(e)(3)(iv) of subpart A of this part.
(b) Records of equipment operation. The owner or operator must keep the records specified in 40CFR§63.1367(b)(1) through (11) up-to-date and readily accessible.
(1) Each measurement of a control device operating parameter monitored in accordance with 40CFR§63.1366 and each measurement of a treatment process parameter monitored in accordance with the provisions of 40CFR63.1362(d).
(2) For processes subject to 40CFR§63.1362(g), records of consumption, production, and the rolling average values of the HAP and VOC factors.
(6) The owner or operator of an affected source that complies with the standards for process vents, storage tanks, and wastewater systems shall maintain up-to-date, readily accessible records of the information specified

in 40CFR§63.1367(b)(6)(i) through (vii) to document that HAP emissions or HAP loadings (for wastewater) are below the limits specified in 40CFR§63.1362:
(i) Except as specified in paragraph (b)(6)(ix) of this section, the initial calculations of uncontrolled and controlled emissions of gaseous organic HAP and HCl per batch for each process.
(ii) The wastewater concentrations and flow rates per POD and process.
(iii) The number of batches per year for each batch process.
(iv) The operating hours per year for continuous processes.
(v) The number of batches and the number of operating hours for processes that contain both batch and continuous operations.
(vi) The number of tank turnovers per year, if used in an emissions average or for determining applicability of a new PAI process unit.
(vii) A description of absolute or hypothetical peak-case operating conditions as determined using the procedures in 40CFR§63.1365(b)(11).
(viii) Periods of planned routine maintenance as described in 40CFR§63.1362(c)(5).
(ix) As an alternative to the records in 40CFR§63.1367(b)(6)(i), a record of the determination that the conditions in 40CFR63.1365(b)(11)(iii)(D)(1) or (2) are met.
(7) Daily schedule or log of each operating scenario updated daily or, at a minimum, each time a different operating scenario is put into operation.
(10) All maintenance performed on the air pollution control equipment.
(c) Records of equipment leak detection and repair. The owner or operator of an affected source subject to the equipment leak standards in 40CFR§63.1363 shall implement the recordkeeping requirements specified in 40CFR§63.1363(g). All records shall be retained for a period of 5 years, in accordance with the requirements of 40CFR§63.10(b)(1) of subpart A of this part.
(e) The owner or operator of an affected source subject to the requirements for heat exchanger systems in 40CFR§63.1362(g) shall retain the records as specified in 40CFR§63.104(f)(1)(i) through (iv) of subpart G of this part.
(f) Records of inspections. The owner or operator shall keep records specified in 40CFR§63.1367(f)(1) through (6).
(1) Records identifying all parts of the vapor collection system, closed-vent system, fixed roof, cover, or enclosure that are designated as unsafe to inspect in accordance with 40CFR§63.1366(h)(6), an explanation of why the equipment is unsafe-to-inspect, and the plan for inspecting the equipment.
(2) Records identifying all parts of the vapor collection system, closed-vent system, fixed roof, cover, or enclosure that are designated as difficult-to-inspect in accordance with 40CFR§63.1366(h)(7), an explanation of why the equipment is difficult-to-inspect, and the plan for inspecting the equipment.
(3) For each vapor collection system or closed-vent system that contains bypass lines that could divert a vent stream away from the control device and to the atmosphere, the owner or operator shall keep a record of the information specified in either 40CFR§63.1367(f)(3)(i) or (ii).
(i) Hourly records of whether the flow indicator specified under 40CFR§63.1362(j)(1) was operating and whether a diversion was detected at any time during the hour, as well as records of the times and durations of all periods when the vent stream is diverted from the control device or the flow indicator is not operating.
(ii) Where a seal mechanism is used to comply with 40CFR§63.1362(j)(2), hourly records of flow are not required. In such cases, the owner or operator shall record that the monthly visual inspection of the seals or closure mechanisms has been done and shall record the occurrence of all periods when the seal mechanism is broken, the bypass line valve position has changed, or the key for a lock-and key type lock has been checked out, and records of any car-seal that has broken.
(4) For each inspection conducted in accordance with 40CFR§63.1366(h)(2) and (3) during which a leak is detected, a record of the information specified in 40CFR§63.1367(f)(4)(i) through (ix).
(i) Identification of the leaking equipment.
(ii) The instrument identification numbers and operator name or initials, if the leak was detected using the procedures described in 40CFR§63.1366(h)(3); or a record of that the leak was detected by sensory observations.
(iii) The date the leak was detected and the date of the first attempt to repair the leak.
(iv) Maximum instrument reading measured by the method specified in 40CFR§63.1366(h)(4) after the leak is

successfully repaired or determined to be nonrepairable.
(v) ``Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak.
(vi) The name, initials, or other form of identification of the owner or operator (or designee) whose decision it was that repair could not be effected without a shutdown.
(vii) The expected date of successful repair of the leak if a leak is not repaired within 15 calendar days.
(viii) Dates of shutdowns that occur while the equipment is unrepaired.
(ix) The date of successful repair of the leak.
(5) For each inspection conducted in accordance with 40CFR§63.1366(h)(3) during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected.
(6) For each visual inspection conducted in accordance with 40CFR§63.1366(h)(2)(i)(B) or (iii)(B) during which no leaks are detected, a record that the inspection was performed, the date of the inspection, and a statement that no leaks were detected.
(g) Records of primary use. For a PAI process unit that is used to produce a given material for use as a PAI as well as for other purposes, the owner or operator shall keep records of the total production and the production for use as a PAI on a semiannual or more frequent basis if the use as a PAI is not the primary use.
[45CSR13, 45CSR34, Permit No. R13-2413 (Condition B.8.) and 40CFR§63.1367]

5.5. Reporting Requirements

5.5.1. Equipment Leaks:
(h) Reporting Requirements.
(1) Each owner or operator of a source subject to this section shall submit the reports listed in 40CFR§63.1363(h)(1)(i) and (ii).
(i) A Notification of Compliance Status report described in 40CFR§63.1363(h)(2), and (ii) Periodic reports described in 40CFR§63.1363(h)(3).
(2) Notification of compliance status report. Each owner or operator of a source subject to this section shall submit the information specified in 40CFR§63.1363(h)(2)(i) through (iii) in the Notification of Compliance Status report described in 40CFR§63.1368(f). §63.9(j) of subpart A of this part shall not apply to the Notification of Compliance Status report.
(i) The notification shall provide the information listed in 40CFR§63.1363(h)(2)(i)(A) through (C) for each group of processes subject to the requirements of 40CFR§63.1363 (b) through (g).
(A) Identification of the group of processes.
(B) Approximate number of each equipment type (e.g., valves, pumps) in organic HAP service, excluding equipment in vacuum service.
(C) Method of compliance with the standard (for example, ``monthly leak detection and repair" or ``equipped with dual mechanical seals").
(ii) The notification shall provide the information listed in 40CFR§63.1363(h)(2)(ii)(A) and (B) for each process subject to the requirements of 40CFR§63.1363(b)(3)(iv) and 40CFR§63.178(b) of subpart H of this part.
(A) Products or product codes subject to the provisions of this section, and
(B) Planned schedule for pressure testing when equipment is configured for production of products subject to the provisions of this Section.
(iii) The notification shall provide the information listed in 40CFR§63.1363(h)(2)(iii)(A) and (B) for each process subject to the requirements in 40CFR§63.179 of subpart H of this part.
(A) Process identification.
(B) A description of the system used to create a negative pressure in the enclosure and the control device used to comply with the requirements of 40CFR§63.1363(b)(3)(ii).
(3) Periodic reports. The owner or operator of a source subject to this section shall submit Periodic reports.
(i) A report containing the information in 40CFR§63.1363(h)(3)(ii), (iii), and (iv) shall be submitted semiannually. The first Periodic report shall be submitted no later than 240 days after the date the Notification of Compliance Status report is due and shall cover the 6-month period beginning on the date the Notification of

Compliance Status report is due. Each subsequent Periodic report shall cover the 6-month period following the preceding period.
(ii) For equipment complying with the provisions of 40CFR§63.1363(b) through (g), the Periodic report shall contain the summary information listed in 40CFR§63.1363(h)(3)(ii)(A) through (L) for each monitoring period during the 6-month period.
(A) The number of valves for which leaks were detected as described in 40CFR§63.1363(e)(2), the percent leakers, and the total number of valves monitored;
(B) The number of valves for which leaks were not repaired as required in 40CFR§63.1363(e)(7), identifying the number of those that are determined nonrepairable;
(C) The number of pumps and agitators for which leaks were detected as described in 40CFR§63.1363(c)(2), the percent leakers, and the total number of pumps and agitators monitored;
(D) The number of pumps and agitators for which leaks were not repaired as required in 40CFR§63.1363(c)(3);
(E) The number of compressors for which leaks were detected as described in 40CFR§63.164(f) of subpart H of this part;
(F) The number of compressors for which leaks were not repaired as required in 40CFR§63.164(g) of subpart H of this part;
(G) The number of connectors for which leaks were detected as described in 40CFR§63.174(a) of subpart H of this part, the percent of connectors leaking, and the total number of connectors monitored;
(H) The number of connectors for which leaks were not repaired as required in 40CFR§63.174(d) of subpart H of this part, identifying the number of those that are determined nonrepairable;
(I) The facts that explain any delay of repairs and, where appropriate, why a process shutdown was technically infeasible.
(J) The results of all monitoring to show compliance with 40CFR§63.164(i), 63.165(a), and 63.172(f) of subpart H of this part conducted within the semiannual reporting period.
(K) If applicable, the initiation of a monthly monitoring program under either 40CFR§63.1363(c)(4)(ii) or 40CFR§63.1363(e)(4)(i)(A).
(L) If applicable, notification of a change in connector monitoring alternatives as described in 40CFR§63.174(c)(1) of subpart H of this part.
(iii) For owners or operators electing to meet the requirements of 40CFR§63.178(b) of subpart H of this part, the Periodic report shall include the information listed in 40CFR§63.1363(h)(3)(iii) (A) through (E) for each process.
(A) Product process equipment train identification;
(B) The number of pressure tests conducted;
(C) The number of pressure tests where the equipment train failed either the retest or two consecutive pressure tests;
(D) The facts that explain any delay of repairs; and
(E) The results of all monitoring to determine compliance with 40CFR§63.172(f) of subpart H of this part.
(iv) Any change in the information submitted under 40CFR§63.1363(h)(2) shall be provided in the next Periodic report.
[45CSR13, 45CSR34, Permit No. R13-2413 (Condition A.14.) and 40CFR§63.1363(h) (fugitive emissions)]

5.5.2. (a) The owner or operator of an affected source shall comply with the reporting requirements of 40CFR§63.1368(b) through (l). The owner or operator shall also comply with applicable paragraphs of 40CFR§63.9 and 63.10 of subpart A of this part, as specified in Subpart MMM, Table 1.
(g) Periodic reports. The owner or operator shall prepare Periodic reports in accordance with 40CFR§63.1368(g)(1) and (2) and submit them to the Administrator.
(1) Submittal schedule. Except as provided in 40CFR§63.1368(g)(1)(i) and (ii), the owner or operator shall submit Periodic reports semiannually. The first report shall be submitted no later than 240 days after the date the Notification of Compliance Status report is due and shall cover the 6-month period beginning on the date the Notification of Compliance Status report is due. Each subsequent Periodic report shall cover the 6-month period following the preceding period and shall be submitted no later than 60 days after the end of the applicable period.

(i) The Administrator may determine on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the affected source.
(ii) Quarterly reports shall be submitted when the monitoring data are used to comply with the alternative standards in 40CFR§63.1362(b)(6) or (c)(4) and the source experiences excess emissions. Once an affected source reports excess emissions, the affected source shall follow a quarterly reporting format until a request to reduce reporting frequency is approved. If an owner or operator submits a request to reduce the frequency of reporting, the provisions in 40CFR§63.10(e)(3) (ii) and (iii) of subpart A of this part shall apply, except that the term ``excess emissions and continuous monitoring system performance report and/or summary report" shall mean ``Periodic report" for the purposes of this section.
(2) Content of periodic report. The owner or operator shall include the information in 40CFR§63.1368(g)(2)(i) through (xii), as applicable.
(i) Each Periodic report must include the information in 40CFR§63.10(e)(3)(vi)(A) through (M) of subpart A of this part, as applicable.
(ii) If the total duration of excess emissions, parameter exceedances, or excursions for the reporting period is 1 percent or greater of the total operating time for the reporting period, or the total continuous monitoring system downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the Periodic report must include the information in 40CFR§63.1368(g)(2)(ii)(A) through (D).
(A) Monitoring data, including 15-minute monitoring values as well as daily average values of monitored parameters, for all operating days when the average values were outside the ranges established in the Notification of Compliance Status report or operating permit.
(B) Duration of excursions, as defined in 40CFR§63.1366(b)(7).
(C) Operating logs and operating scenarios for all operating days when the values are outside the levels established in the Notification of Compliance Status report or operating permit.
(iii) For each vapor collection system or closed vent system with a bypass line subject to 40CFR§63.1362(j)(1), records required under 40CFR§63.1366(f) of all periods when the vent stream is diverted from the control device through a bypass line. For each vapor collection system or closed vent system with a bypass line subject to 40CFR§63.1362(j)(2), records required under 40CFR§63.1366(f) of all periods in which the seal mechanism is broken, the bypass valve position has changed, or the key to unlock the bypass line valve was checked out.
(iv) The information in 40CFR§63.1368(g)(2)(iv)(A) through (D) shall be stated in the Periodic report, when applicable.
(A) No excess emissions.
(B) No exceedances of a parameter.
(C) No excursions.
(D) No continuous monitoring system has been inoperative, out of control, repaired, or adjusted.
(v) For each storage vessel subject to control requirements:
(A) Actual periods of planned routine maintenance during the reporting period in which the control device does not meet the specifications of 40CFR§63.1362(c)(5); and
(B) Anticipated periods of planned routine maintenance for the next reporting period.
(vi) For each PAI process unit that does not meet the definition of primary use, the percentage of the production in the reporting period produced for use as a PAI.
(viii) Updates to the corrective action plan.
(ix) Records of process units added to each process unit group, if applicable.
(x) Records of redetermination of the primary product for a process unit group.
(xi) For each inspection conducted in accordance with 40CFR§63.1366(h)(2) or (3) during which a leak is detected, the records specify in 40CFR§63.1367(h)(4) must be included in the next Periodic report.
(xii) If the owner or operator elects to comply with the provisions of 40CFR§63.1362(c) by installing a floating roof, the owner or operator shall submit the information specified in 40CFR§63.122(d) through (f) as applicable. References to 40CFR§63.152 in 40CFR§63.122 shall not apply for the purposes of this subpart.
(h) Notification of process change.
(1) Except as specified in 40CFR§63.1368(h)(2), whenever a process change is made, or any of the information submitted in the Notification of Compliance Status report changes, the owner or operator shall submit the information specified in 40CFR§63.1368(h)(1)(i) through (iv) with the next Periodic report required under 40CFR§63.1368(g). For the purposes of this section, a process change means the startup of a new process, as

defined in 40CFR§63.1361.
(i) A brief description of the process change;
(ii) A description of any modifications to standard procedures or quality assurance procedures;
(iii) Revisions to any of the information reported in the original Notification of Compliance Status report under 40CFR§63.1368(f); and
(iv) Information required by the Notification of Compliance Status report under 40CFR§63.1368(f) for changes involving the addition of processes or equipment.
(2) The owner or operator must submit a report 60 days before the scheduled implementation date of either of the following:
(i) Any change in the activity covered by the Precompliance report.
(ii) A change in the status of a control device from small to large.
(i) Reports of startup, shutdown, and malfunction. For the purposes of this subpart, the startup, shutdown, and malfunction reports shall be submitted on the same schedule as the Periodic reports required under paragraph (g) of this section instead of the schedule specified in 40CFR§63.10(d)(5)(i) of subpart A of this part. These reports shall include the information specified in 40CFR§63.1367(a)(3)(i) through (iii) and shall contain the name, title, and signature of the owner or operator or other responsible official who is certifying its accuracy. Reports are only required if a startup, shutdown, or malfunction occurred during the reporting period. Any time an owner or operator takes an action that is not consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the owner or operator shall submit an immediate startup, shutdown, and malfunction report as specified in 40CFR§63.10(d)(5)(ii) of subpart A of this part.
(j) Reports of equipment leaks. The owner or operator of an affected source subject to the standards in 40CFR§63.1363, shall implement the reporting requirements specified in 40CFR§63.1363(h). Copies of all reports shall be retained as records for a period of 5 years, in accordance with the requirements of 40CFR§63.10(b)(1) of subpart A of this part.
(l) Reports of heat exchange systems. The owner or operator of an affected source subject to the requirements for heat exchange systems in 40CFR§63.1362(f) shall submit information about any delay of repairs as specified in 40CFR§63.104(f)(2) of subpart F of this part, except that when the phrase ``periodic reports required by 40CFR§63.152(c) of subpart G of this part'' is referred to in 40CFR§63.104(f)(2) of subpart F of this part, the periodic reports required in 40CFR§63.1368(g) shall apply for the purposes of this subpart.
(m) Notification of performance test and test Plan. The owner or operator of an affected source shall notify the Administrator of the planned date of a performance test at least 60 days before the test in accordance with 40CFR§63.7(b) of subpart A of this part. The owner or operator also must submit the test Plan required by 40CFR§63.7(c) of subpart A of this part and the emission profile required by 40CFR§63.1365(b)(10)(ii) with the notification of the performance test.
(n) Request for extension of compliance. The owner or operator may submit to the Administrator a request for an extension of compliance in accordance with 40CFR§63.1364(a)(2).
(o) The owner or operator who submits an operating permit application before the date the Emissions Averaging Plan is due shall submit the information specified in 40CFR§63.1368(o)(1) through (3) with the operating permit application instead of the Emissions Averaging Plan.
(1) The information specified in 40CFR§63.1367(d) for emission points included in the emissions average;
(2) The information specified in 40CFR§63.9(h) of subpart A of this part, as applicable; and
(3) The information specified in 40CFR§63.1368(e), as applicable.
[45CSR13, 45CSR34, Permit No. R13-2413 (Condition B.8.) and 40CFR§63.1368]

5.6. Compliance Plan

None