



State of Ohio Environmental Protection Agency

STREET ADDRESS:

MAILING ADDRESS:

Lazarus Government Center  
50 W. Town St., Suite 700  
Columbus, Ohio 43215

TELE: (614) 644-3020 FAX: (614) 644-3184  
www.epa.state.oh.us

P.O. Box 1049  
Columbus, Ohio 43216-1049

CERTIFIED MAIL

March 19, 2007

**Re: Sunoco Chemicals-Haverhill**  
EPA ID No: OHD 005 108 477  
Ohio ID No: 04-73-0251  
Modified Hazardous Waste Permit

Jordan L. Morgan  
Sunoco Chemicals-Haverhill  
P.O. Box 180  
Haverhill, Ohio 45636

Dear Mr. Morgan:

On September 14, 2005, Ohio EPA received Sunoco Chemical's (Sunoco) request for a Class 3 modification to incorporate four (4) hazardous waste boilers into the facility's permit. For this modification, Sunoco submitted a Class 3 modification application<sup>1</sup>. The Agency did not receive any verbal or written comments concerning the Class 3 modification. I have enclosed the final modified Ohio hazardous waste facility installation and operation permit (Permit) that was issued by the director today. Please note that the modified Permit remains in effect until it is renewed, withdrawn, suspended or revoked.

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

---

<sup>1</sup>Ohio EPA assigned tracking # 050914-3A-1 to this modification application.

Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korleski, Director



Printed on Recycled Paper

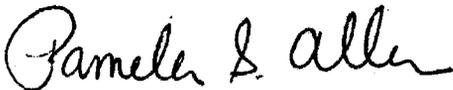
Jordan L. Morgan  
Sunoco Chemicals-Haverhill  
March 19, 2007  
Page 2

---

Environmental Review Appeals Commission  
309 South Fourth Street, Room 222  
Columbus, OH 43215

If you have any questions, please contact Vicky German of the Southeast District Office at (740) 380-5237.

Sincerely,



Pamela S. Allen, Manager  
Regulatory and Information Services  
Division of Hazardous Waste Management

cc: Jeremy Carroll/Pamela McCoy, ERAS, DHWM  
Dale Meyer, U.S. EPA, Region V  
Jim Michnowicz/Vicky German, SEDO, DHWM  
Carol Hester, Ohio EPA, PIC

G:\USERS\L.tery\SunocoClass3Finalcovitr3'07

## PUBLIC NOTICE

Scioto County

### OHIO EPA ISSUES FINAL CLASS 3 HAZARDOUS WASTE PERMIT MODIFICATION

On March 19, 2007, Ohio EPA issued a final Class 3 hazardous waste facility installation and operation permit (Permit) modification to Sunoco Chemicals-Haverhill Plant (Sunoco) for its facility at 1019 Haverhill-Ohio Furnace Road, Haverhill, Ohio 45636. The EPA Identification Number for this facility is OHD005108477.

#### **Why does Sunoco need this Permit modification?**

Sunoco is a chemical production facility that produces phenol and acetone from cumene. Wastes from the production of these chemicals are stored in three permitted tanks prior to being used as a fuel in Sunoco's boilers. Sunoco is requesting a Class 3 modification to incorporate four (4) hazardous waste boilers into the facility's permit. This final Permit modification will allow Sunoco to make the requested changes. To issue this final modified Permit, Ohio EPA determined that the proposed changes meet appropriate standards.

Some RCRA regulations have not been authorized in the state of Ohio, therefore Sunoco also has a Permit issued by US EPA's Region V. Sunoco's complete RCRA Permit is comprised of both the US EPA and Ohio EPA Permits.

#### **Can I appeal this modified Permit?**

Yes, if you are an officer of an agency of the state or of a political subdivision, acting in a representative capacity, or any person who would be aggrieved or adversely affected by this Permit, you have the right to appeal this Permit decision to the Environmental Review Appeals Commission (ERAC).

#### **If I decide to appeal this final modified Permit, how and when must I make the appeal?**

If you file an appeal, you must put it in writing no later than April 19, 2007. Your appeal must explain why you are appealing the action and the grounds you are using for your appeal. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. You must file your appeal, according to Ohio Revised Code § 3745.04 with ERAC at the following address: **Environmental Review Appeals Commission**, 309 South Fourth Street, Room 222, Columbus, Ohio 43215. You must send a copy of the appeal to the director of Ohio EPA at the following address no later than three (3) days after you file it with ERAC: **Chris Korleski, Director of Ohio EPA**, P.O. Box 1049, Columbus, Ohio 43216-1049.

OHIO E.P.A. **OHIO ENVIRONMENTAL PROTECTION AGENCY**

**MAR 19 2007 MODIFIED OHIO HAZARDOUS WASTE FACILITY  
INSTALLATION AND OPERATION PERMIT**

ENTERED DIRECTOR'S JOURNAL

Date of Issuance: March 19, 2007  
Effective Date: March 19, 2007

U.S. EPA ID No.: OHD 005 108 477  
Ohio Permit No.: 04-73-0251

**Name of Permittee:** Sunoco Chemicals-Haverhill  
**Mailing Address:** P.O. Box 180  
Haverhill, Ohio 45636  
**Facility Location:** 1019 Haverhill-Ohio Furnace Road  
Haverhill, Ohio 45636  
**Person to Contact:** Jordan L. Morgan, Plant Manager

This Modified Ohio Hazardous Waste Facility Installation and Operation Permit is issued pursuant and subject to Section 3734.05(1) of the Ohio Revised Code and Rule 3745-50-51(D) of the Ohio Administrative Code. For this Class 3 modification governed under division (1)(3) of section 3734.05 of the Revised Code, the Director has made the findings required by division (D)(2) of that same section.

The Ohio Hazardous Waste Facility Installation and Operation Permit with the above-referenced permit number as issued by the Ohio Environmental Protection Agency and journalized on October 29, 2001, is hereby incorporated by reference in its entirety, except as it may be modified herein.

This modification of the permit shall remain in effect until such time as the Ohio Hazardous Waste Facility Installation and Operation Permit is renewed, modified, withdrawn, suspended or revoked.

The Permittee shall comply with all requirements of the modified Part B permit application as amended or supplemented on September 14, 2005, May 26, 2006, July 20, 2006 and September 8, 2006. The information contained in the modified Part B permit application is incorporated herein by reference. Specifically, all written statements regarding the specifications, locations or capabilities of the processes, equipment, containment devices, safety devices or programs or other matters made by the applicant in the permit modification application are hereby incorporated as express, binding terms and conditions of this modified permit.

The modified Terms and Conditions of this permit are attached hereto and are incorporated herein by reference. The modified Terms and Conditions supersede and replace the corresponding pages found in the October 29, 2001 renewal permit.

I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

  
Chris Korleski  
Director

By:  Date: 3-19-07

## OHIO ENVIRONMENTAL PROTECTION AGENCY

MAR 19 2007

**OHIO HAZARDOUS WASTE FACILITY  
INSTALLATION AND OPERATION PERMIT RENEWAL**Permittee: **Sunoco Chemicals-Haverhill**Mailing  
Address: **Sunoco Chemicals-Haverhill  
1019 Haverhill-Ohio Furnace Road  
Haverhill, Ohio 45636**Owner: **Aristech Chemical Corporation  
1801 Market Street  
Philadelphia, Pennsylvania 19103**Operator: **Sunoco Inc. (R&M)  
1801 Market Street  
Philadelphia, Pennsylvania 19103**Location: **Sunoco Chemicals-Haverhill  
1019 Haverhill-Ohio Furnace Road  
Haverhill, Ohio 45636**

Ohio Permit No.:	04-73-0251
US EPA ID:	OHD 005 108 477
Issue Date:	October 29, 2001
Effective Date:	October 29, 2001
Expiration Date:	October 29, 2011

**AUTHORIZED ACTIVITIES**

In reference to the application of **Sunoco Chemicals-Haverhill** for an Ohio Hazardous Waste Facility Installation and Operation Renewal Permit under Ohio Revised Code (ORC) Chapter 3734 and the record in this matter, you are authorized to conduct at the above-named facility the following hazardous waste management activities:

- ◆ **Tank Storage of Hazardous Waste**
- ◆ **Treatment of Hazardous Waste in Boilers**
- ◆ **Corrective Action**

MAR 19 2007

---

## MODULE A - GENERAL PERMIT CONDITIONS

### A. GENERAL PERMIT CONDITIONS

#### A.1. Effect of Permit

ORC Sections 3734.02 (E) and (F) and 3734.05  
OAC Rule 3745-50-58(G)

- (a) The Permittee is authorized to store hazardous waste in tanks and to treat hazardous waste in boilers in accordance with the terms and conditions of this permit, ORC Chapter 3734, all applicable Ohio hazardous waste rules, all applicable regulations promulgated under the Resource Conservation and Recovery Act (RCRA), as amended, and the approved hazardous waste facility installation and operation permit renewal application, as such application has been revised and supplemented and as such application may be modified pursuant to the hazardous waste rules. The approved Part B permit application as submitted to Ohio EPA on December 16, 1997 and any subsequent amendment thereto, and last updated on November 30, 2000, is hereby incorporated into this permit. In the instance of inconsistent language or discrepancies between the above, the language of the more stringent provision shall govern.
- (b) Any management of hazardous waste not authorized by this permit is prohibited, unless otherwise expressly authorized or specifically exempted by law. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, or invasion of other private rights. Compliance with the terms and conditions of this permit does not obviate Permittee's obligation to comply with other applicable provisions of law governing protection of public health or the environment including but not limited to the Community Right to Know law under ORC Chapter 3750.
- (c) As an operator of an industrial boiler, as identified in OAC Rule 3745-50-10, the Permittee shall for the purpose of energy recovery introduce into such industrial boiler only those ignitable hazardous wastes possessing adequate properties that comply with the specifications stipulated within Section C and D of the Permittee's approved Part B permit Application.

MAR 19 2007

---

A.2. Permit Actions  
OAC Rule 3745-50-58(F)

This permit may be modified, revoked, suspended, or renewed as specified by Ohio law. The filing of a request for a permit modification, revision, revocation, suspension, or renewal or the notification of planned changes or anticipated noncompliance on the part of the Permittee, does not stay the applicability or enforceability of any permit term or condition.

A.3. Permit Effective/Expiration Date  
OAC Rule 3745-50-54

The effective date of this permit is the date the permit is entered into the director's journal. The permit expiration date is ten years after the date of journalization of this permit.

A.4. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

A.5. Duty to Comply  
OAC Rule 3745-50-58(A)

The Permittee shall comply with all applicable provisions of ORC Chapter 3734, all applicable Ohio hazardous waste rules, and all terms and conditions of this permit, except to the extent and for the duration such noncompliance is authorized by the laws of the State of Ohio. Any permit noncompliance, other than noncompliance authorized by the laws of the State of Ohio, constitutes a violation of ORC Chapter 3734 and the rules adopted thereunder and is grounds for enforcement action, suspension, revocation, modification, revision, denial of a permit renewal application or other appropriate action.

MAR 19 2007

**A.6. Duty to Reapply and Permit Expiration**

OAC Rules 3745-50-40(D); 3745-50-58(B); 3745-50-56 and ORC Section 3734.05(H)

- (a) If the Permittee wishes to continue an activity allowed by this permit after the expiration date of this permit, the Permittee must submit a completed application for a hazardous waste facility installation and operation permit renewal and any necessary accompanying general plans, detailed plans, specifications, and such information as the director may require, to the director no later than one hundred eighty (180) days before the expiration date of this permit or upon approval of the director a later date prior to the expiration date if the Permittee can demonstrate good cause for late submittal.
- (b) The Permittee may continue to operate in accordance with the terms and condition of the expired permit until a renewal permit is issued or denied if:
  - (i) the Permittee has submitted a timely and complete application for a renewal permit under OAC Rule 3745-50-40; and
  - (ii) through no fault of the Permittee, a new permit has not been issued pursuant to OAC Rule 3745-50-40 on or before the expiration date of this permit.
- (c) The corrective action obligations contained in this permit will continue regardless of whether the facility continues to operate or ceases operation and closes. The Permittee is obligated to complete facility-wide corrective action under the conditions of this permit regardless of the operational status of the facility. The Permittee must submit an application for permit reissuance at least 180 days before the expiration date of this permit pursuant to OAC Rule 3745-50-40(D) unless a) the permit has been modified to terminate the corrective action schedule of compliance and the Permittee has been released from the requirements for financial assurance for corrective action; or b) permission for a later date has been granted by the director. The director shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

MAR 19 2007

---

A.7. Need to Halt or Reduce Activity Not a Defense  
OAC Rule 3745-50-58(C)

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce a permitted activity in order to maintain compliance with the conditions of this permit.

A.8. Duty to Mitigate  
OAC Rule 3745-50-58(D)

The Permittee shall expeditiously take all reasonable steps necessary to minimize or correct any adverse impact on the environment or the public health resulting from noncompliance with this permit.

A.9. Proper Operation and Maintenance  
OAC Rule 3745-50-58(E)

The Permittee shall at all times properly operate and maintain the facility (and related appurtenances) to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes, but is not limited to, effective management practices, adequate funding, adequate operator staffing and training, and where appropriate, adequate laboratory and process controls, including appropriate quality assurance/quality control procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the terms and conditions of this permit.

A.10. Duty to Provide Information  
OAC Rule 3745-50-58(H)

The Permittee shall furnish the director, within a reasonable time, any relevant information which the director may request to determine whether cause exists for modifying, revising, revoking or suspending this permit or to determine compliance with this permit. The Permittee shall also furnish the director, upon request, copies of records required to be kept by this permit.

MAR 19 2007

---

A.11. Inspection and Entry

OAC Rules 3745-50-58(i), 3745-50-30 and ORC Section 3734.07

- (a) The Permittee shall allow the director, or an authorized representative, upon stating the purpose and necessity of the inspection and upon proper identification to:
  - (i) enter at reasonable times upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the terms and conditions of this permit;
  - (ii) have access to and copy, at reasonable times, any records required to be kept under the terms and conditions of this permit;
  - (iii) inspect and photograph at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the terms and condition of this permit; and
  - (iv) sample, document, or monitor, at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by ORC Chapter 3734 and the rules adopted thereunder, any substances or parameter at any location.
- (b) Any record, report or other information obtained under the hazardous waste rules or Chapter 3734 of the Revised Code shall not be available to the public upon the Permittee's satisfactory showing to Ohio EPA that all or part of the information would divulge methods or processes entitled to protection as trade secrets pursuant to Ohio Trade Secret Law and OAC Rule 3745-50-30.

A.12. Monitoring and Records

OAC Rule 3745-50-58(J)

- (a) Any sample and measurement taken for the purpose of monitoring shall be a representative sample or measurement, as such term is defined and used in the Ohio hazardous waste rules. The method used to obtain a representative sample of the waste to be analyzed must be the appropriate method from Appendix I of OAC Rule 3745-51-20, Laboratory Methods.

MAR 19 2007

---

Laboratory methods must be those specified in Test Methods for the Evaluation of Solid Waste: Physical /Chemical Methods; SW-846:Third Edition, November 1992; and additional supplements or editions thereof; Standard Methods for the Examination of Water and Wastewater: Seventeenth Edition, 1989; or an equivalent method as specified in the approved waste analysis plan, or as such term is defined and used in the Ohio hazardous waste rules.

- (b) Records of monitoring information shall specify the:
- (i) date(s), exact place(s), and time(s) of sampling or measurements;
  - (ii) individual(s) who performed the sampling or measurements;
  - (iii) date(s) analyses were performed;
  - (iv) individual(s) who performed the analyses;
  - (v) analytical technique(s) or method(s) used; and
  - (vi) results of such analyses.

A.13. Signatory Requirement and Certification of Records  
OAC Rules 3745-50-58(K) and 3745-50-42

All applications, reports or information shall be properly signed and certified in accordance with OAC Rule 3745-50-58(K).

A.14. Retention of Records  
OAC Rules 3745-50-58(J) and 3745-50-58(M)

- (a) The Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports and records required by this permit, the certification required by paragraph B(9) of rule 3745-54-73 of the Administrative Code, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample, measurement, report, certification, or application.

MAR 19 2007

- 
- (b) The record retention period may be extended by request of the director at any time and are automatically extended during the course of any unresolved enforcement action regarding the facility.
  - (c) The Permittee shall maintain, in accordance with the Ohio hazardous waste rules, records of all data used to complete the Part B permit application and any amendments, supplements, modifications or revisions, of such application and shall retain a complete copy of the application for the life of the facility.
  - (d) The Permittee shall maintain records from all ground water monitoring wells and associated ground water surface elevations for the active life of the facility, and for disposal facilities for the post-closure care period as well.
  - (e) Corrective Action records must be maintained at least 3 years after all Corrective Action activities have been completed.

A.15. Planned Changes

OAC Rules 3745-50-51 and 3745-50-58(L)(1)

The Permittee shall give notice to the director as soon as possible of any planned physical alterations or additions to the permitted facility. All such changes must be made in accordance with OAC Rule 3745-50-51.

A.16. Waste Shipments

OAC Rule 3745-52-12, ORC Section 3734.15(C)

The Permittee shall only use properly registered transporters of hazardous waste to remove hazardous waste from the facility, in accordance with all applicable laws and rules.

A.17. Anticipated Noncompliance

OAC Rule 3745-50-58(L)(2)

The Permittee shall give advance notice to the director of any planned changes in the permitted facility or operations which may result in noncompliance with the terms and conditions of this permit. Such notification does not waive the Permittee's duty to comply with this permit pursuant to Condition A.5.

---

A.18. Transfer of Permits

OAC Rules 3745-50-52; 3745-50-58(L)(3) and 3745-54-12

- (a) This permit is not transferable to any person except after notice of the director.
- (b) The permit may be transferred to a new owner or operator only if such transfer is conducted in accordance with ORC Chapter 3734 and the rules adopted thereunder. This permit may be transferred by the Permittee to a new owner or operator only if the permit has been modified under OAC Rule 3745-50-51. Before transferring ownership or operation of the facility the Permittee shall notify the new owner or operator in writing of the requirements of ORC Chapter 3734 and the rules adopted thereunder (including all applicable corrective action requirements).
- (c) The Permittee's failure to notify the new owner or operator of the requirements of the applicable Ohio law or hazardous waste rules does not relieve the new owner or operator of its obligation to comply with all applicable requirements.

A.19. Compliance Reports

OAC Rules 3745-50-58(L)(5) and 3745-50-50

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule (developed in accordance with OAC Rule 3745-50-50) of this permit shall be submitted to the director no later than fourteen (14) days following each scheduled date.

A.20. Immediate Reporting of Noncompliance

OAC Rule 3745-50-58(L)(6)

- (a) The Permittee shall report orally to the Ohio Environmental Protection Agency's Division of Emergency and Remedial Response within two hours from the time the Permittee becomes aware of any noncompliance with this permit, ORC Chapter 3734 or the rules adopted thereunder, which endangers human health or the environment, including:

MAR 19 2007

- 
- (i) information concerning the release of any hazardous waste that may cause an endangerment to public drinking water supplies; and
  - (ii) any information of a release or discharge of hazardous waste or a fire or explosion from the hazardous waste facility, which could threaten the environment or human health outside the facility.
- (b) The report shall consist of the following information (if such information is available at the time of the oral report):
- (i) name, address, and telephone number of the owner or operator;
  - (ii) name, address, and telephone number of the facility;
  - (iii) name and quantity of material(s) involved;
  - (iv) the extent of injuries, if any;
  - (v) an assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and
  - (vi) estimated quantity and disposition of recovered material that resulted from the incident.

A.21. Follow-Up Written Report of Noncompliance  
OAC Rule 3745-50-58(L)(6)(c)

- (a) A written report shall also be provided to the Ohio Environmental Protection Agency's Division of Emergency and Remedial Response and the Division of Hazardous Waste Management, Southeast District Office, within five (5) days of the time the Permittee becomes aware of the circumstances reported in Condition A.20.
- (b) The written report shall address the items in A.20 and shall contain a description of such noncompliance and its cause; the period(s) of noncompliance (including exact dates and times); whether the noncompliance has been corrected; and, if not, the anticipated time it is expected to continue; and steps taken or planned to minimize the impact on human health and the environment and to reduce, eliminate, and prevent recurrence of the noncompliance.

MAR 19 2007

- 
- (c) The Permittee need not comply with the five (5) day written report requirement if the director, upon good cause shown by the Permittee, waives that requirement and the Permittee submits a written report within fifteen (15) days of the time the Permittee becomes aware of the circumstances.

A.22. Other Noncompliance

OAC Rules 3745-50-58(L)(10) and 3745-50-58(L)(4)

The Permittee shall report to the director, all other instances of noncompliance not provided for in Condition A.20. These reports shall be submitted within a month of the time at which the Permittee is aware of such noncompliance. Such reports shall contain all information set forth within Condition A.20 of this permit.

A.23. Certification of Construction or Modification

OAC Rule 3745-50-58(L)(2)

Reserved.

A.24. Other Information

OAC Rule 3745-50-58(L)(11)

If at any time the Permittee becomes aware that it failed to submit any relevant facts, or submitted incorrect, misleading, or incomplete information to the director, the Permittee shall promptly submit such facts, information or corrected information to the appropriate entity.

A.25. Confidential Information

OAC Rule 3745-50-30

In accordance with ORC Chapter 3734 and the rules adopted thereunder, the Permittee may request confidentiality of any information required to be submitted by the terms and conditions of this permit. Including any information obtained by the director, or an authorized representative, pursuant to the authority provided under condition A.11 of this permit.

MAR 19 2007

---

A.26. Ohio Annual Permit Fee  
OAC Rule 3745-50-36

The annual permit fee, calculated pursuant to OAC Rule 3745-50-36 and payable to the Treasurer of the State, shall be submitted to the director on or before the anniversary of the date of issuance during the term of the permit. For the purpose of the payment of the Ohio annual permit fee, the date of issuance is the date the permit was entered into the Journal of the director of the Ohio Environmental Protection Agency.

A.27. Compliance Schedule - Documents

- (a) The Permittee shall submit to Ohio EPA within sixty (60) days after permit journalization, the following information to be incorporated in the Part B permit application:
  - (i) Updated financial requirements for closure of the facility and liability requirements. This includes the cost estimate for closure as required by OAC Rule 3745-55-42, financial assurance for facility closure as required by OAC Rule 3745-55-43, and liability insurance as required by OAC Rule 3745-55-47.
  - (ii) Reserved.
- (b) On or before July 26, 2002, the Permittee painted all areas of Tank 2003-F that showed signs of external corrosion. Every five years thereafter, or sooner, this tank shall be painted if the tank begins to show signs of external corrosion, in order to provide continued external corrosion protection.
- (c) On or before February 26, 2003, the Permittee painted all areas of Tank 2104-F that showed signs of external corrosion. Every five years thereafter, or sooner, this tank shall be painted if the tank begins to show signs of external corrosion, in order to provide continued external corrosion protection.
- (d) On or before February 26, 2004, the Permittee painted all areas of Tank 2105-F that showed signs of external corrosion. Every five years thereafter, or sooner, this tank shall be painted if the tank begins to show signs of external corrosion, in order to provide continued external corrosion protection.

MAR 19 2007

- 
- (e) Within five years of the date of the previous in service tank inspection (May 4, 2000), and every five years thereafter, the Permittee shall submit an in service tank inspection report for each of the tanks and associated ancillary equipment. This inspection should be performed in accordance with American Petroleum Institute (API) standards 653 and 575, including ultrasonic thickness testing of the tanks.
  - (f) By April 27, 2002, the Permittee shall submit a report from an out of service internal tank inspection that has been performed within the last twenty (20) years. If a report for internal tank inspections performed within the last 20 years is not available, the Permittee shall perform an out of service internal tank inspection for tanks 2003-F, 2104-F, and 2105-F in lieu of the first in service inspection required by condition A.27(e). This internal tank inspection should be performed in accordance with API standards 653 and 575.
  - (g) Unless specified otherwise, the Permittee shall submit the documents listed to:

Ohio Environmental Protection Agency  
Division of Hazardous Waste Management  
Attn: Regulatory and Information Services Section  
P.O. Box 1049  
Columbus, Ohio 43216-1049

Ohio Environmental Protection Agency  
Division of Hazardous Waste Management  
Attn: Environmental Supervisor, DHWM  
2195 Front Street  
Logan, Ohio 43138

MAR 19 2007

---

A.28. Information to be Maintained at the Facility  
OAC Rule 3745-54-74

- (a) The Permittee shall maintain at the facility, until closure is completed and certified by an independent, registered professional engineer, pursuant to OAC Rule 3745-55-15, and until the director releases the Permittee from financial assurance requirements pursuant to OAC Rule 3745-55-47, the following documents (including amendments, revisions and modifications):
- (i) waste analysis plan, developed and maintained in accordance with OAC Rule 3745-54-13 and the terms and conditions of this permit;
  - (ii) contingency plan developed and maintained in accordance with OAC Rule 3745-54-53 and the terms and conditions of this permit;
  - (iii) closure plan, developed and maintained in accordance with OAC Rule 3745-55-12 and the terms and conditions of this permit;
  - (iv) cost estimate for facility closure developed and maintained in accordance with OAC Rule 3745-55-42 and the terms and conditions of this permit;
  - (v) personnel training plan and the training records, as developed and maintained in accordance with OAC Rule 3745-54-16 and the terms and conditions of this permit;
  - (vi) operating record required by OAC Rule 3745-54-73 and the terms and conditions of this permit;
  - (vii) inspection schedules developed in accordance with OAC Rules 3745-54-15; 3745-55-74 and 3745-55-95; and the terms and conditions of this permit;
  - (viii) a contingent closure plan developed in accordance with OAC Rules 3745-55-97(C); 3745-56-28(c) and 3745-56-58(c);
  - (ix) annually-adjusted cost estimate for facility closure, as required by OAC Rules 3745-55-42 and 3745-55-44 and this permit; and,
  - (x) all other documents required by Module A, Permit Condition A.12.

MAR 19 2007

- 
- (b) All amendments, revisions and modifications to any plan required by the terms and conditions of this permit or the Ohio hazardous waste rules shall be submitted to the director. No such change shall be made unless the Permittee has received approval in accordance with the Ohio hazardous waste rules.
  - (c) The Permittee shall maintain copies of all inspection logs at the facility for a period not less than three (3) years from the date of inspection.
  - (d) Corrective Action reports and records as required by Conditions E.5 through E.11 of this permit. These reports and records must be maintained for at least 3 years after all Corrective Action Activities have been completed.

A.29. Waste Minimization Report  
OAC Rule 3745-54-73

- (a) The Permittee shall submit a Waste Minimization Report describing the waste minimization program required by OAC Rules 3745-54-75(H), (i), and (J); 3745-54-73(B)(9); and 3745-52-20(B) at least once every two years. The provision of OAC Rules 3745-54-75(H), (i) and (J); and 3745-54-73(B)(9) must be satisfied annually.
- (b) In completing this report, the Permittee should refer to the following information: instructions prepared by the Ohio EPA for completing the Waste Minimization Annual Report required by OAC Rules 3745-54-75(H), (i), and (J); the Federal Register notice of May 28, 1993, vol. 58, p. 31114, "Interim Final Guidance: Guidance to Hazardous Waste Generators on the Elements of a Waste Minimization Program"; and U.S. EPA's "Facility Pollution Prevention Guide" including planning and organization, assessment, feasibility analysis, implementation, measuring progress, and maintaining the program.
- (c) The Permittee shall submit the Waste Minimization Report to the Technical Assistance Section, Office of Compliance Assistance and Pollution Prevention, Ohio EPA Central Office, Lazarus Government Center, P.O. Box 1049, Columbus, Ohio 43216-1049, within one hundred eighty (180) days of journalization of this permit, and shall submit updates to this report biennially thereafter.

MAR 19 2007

---

## MODULE B - GENERAL FACILITY CONDITIONS

B.1. Design, Maintenance and Operation of Facility  
OAC Rule 3745-54-31

- (a) The Permittee shall design, construct, maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste constituents to air, soil, and ground or surface waters which could threaten human health or the environment.
- (b) The Permittee shall not accept hazardous waste from any off-site sources during the life of the permit, until such time as this condition is modified, renewed, or revised. This is a facility wide limitation and includes all units.

B.2. Required Notices  
OAC Rule 3745-54-12

The Permittee shall not receive hazardous waste from off-site or from a foreign source.

B.3. General Waste Analysis Plan  
OAC Rule 3745-54-13

The Permittee shall follow the procedures described in the approved waste analysis plan found in Section C of the approved Part B permit application and the terms and conditions of this permit.

The Permittee shall verify the analysis of each waste stream that is managed by the permitted hazardous waste management units annually, and after any process change that could alter waste properties as part of its quality assurance program, in accordance with Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA Publication SW-846, or equivalent methods approved by the director. At a minimum, the Permittee shall maintain proper functional instruments, use approved sampling and analytical methods, verify the validity of sampling and analytical procedures, and perform correct calculations. If the Permittee uses a contract laboratory to perform analyses, then the Permittee shall inform the laboratory in writing that it must operate under the waste analysis terms and conditions set forth in this permit.

MAR 19 2007

---

B.4. Security  
OAC Rule 3745-54-14

The Permittee shall comply with the security provisions of OAC Rule 3745-54-14(B)(1) and (2), and (c) and Section F of the Part B permit application.

B.5. General Inspection Requirements  
OAC Rules 3745-54-15 and 3745-54-73

The Permittee shall follow the inspection schedule set out in Section F of the approved Part B permit application. The Permittee shall remedy any deterioration or malfunction discovered by an inspection, as required by OAC Rule 3745-54-15(C). Records of inspection shall be kept for a minimum of three years from the date of inspection.

B.6. Personnel Training  
OAC Rule 3745-54-16

The Permittee shall conduct personnel training, as required by OAC Rule 3745-54-16. This training program shall contain at least the elements set forth in the Section H of the approved Part B permit application. The Permittee shall maintain training documents and records as required by OAC Rule 3745-54-16(D) and (E).

B.7. General Requirements for Ignitable, Reactive, or Incompatible Waste  
OAC Rule 3745-54-17

- (a) The Permittee shall comply with the requirements of OAC Rule 3745-54-17 and shall follow the procedures for handling ignitable, reactive, and incompatible wastes set forth in Section F of the approved Part B permit application.
- (b) The Permittee shall provide electrical grounding for all containers and tanks, and transport vehicles during all operations involving the handling of ignitable or reactive wastes.
- (c) The Permittee shall provide, and require the use of, spark proof tools during all operations involving the handling of all ignitable or reactive wastes.

MAR 19 2007

- 
- (d) The Permittee shall prohibit smoking and open flames in each area where ignitable, reactive or incompatible hazardous wastes are managed, and shall post appropriate signs.

B.8. Location Standards  
OAC Rule 3745-54-18

Reserved.

B.9. Required Equipment  
OAC Rule 3745-54-32

At a minimum, the Permittee shall maintain at the facility all the equipment required by OAC Rule 3745-54-32 and the equipment set forth in the approved contingency plan contained in Section F of the approved Part B permit application.

B.10. Testing and Maintenance of Equipment  
OAC Rule 3745-54-33

The Permittee shall inspect, test and maintain the equipment required by condition B.9. as necessary to assure its proper operation in time of emergency, as specified in OAC Rule 3745-54-33, Section F of the approved Part B permit application, and the terms and conditions of this permit.

B.11. Access to Communications or Alarm System  
OAC Rule 3745-54-34

The Permittee shall maintain access to the communications and alarm systems, as required by OAC Rule 3745-54-34, Section F of the Part B permit application, and the terms and conditions of this permit.

B.12. Required Aisle Space  
OAC Rule 3745-54-35

At a minimum, the Permittee shall maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency, as required by OAC Rule 3745-54-35.

MAR 19 2007

---

B.13. Arrangements with Local Authorities

OAC Rule 3745-54-37

- (a) The Permittee shall comply with the requirements of OAC Rule 3745-54-37 (A) by making a diligent effort to:
  - (i) familiarize all emergency response agencies which are likely to respond in an emergency with the location and layout of the facility, properties of hazardous waste managed at the facility and associated hazards, places where facility personnel will normally be working, entrances to and roads inside the facility, and possible evacuation routes as depicted and explained in Section F of the approved Part B permit application;
  - (ii) inform such agencies of safety equipment, supplies, proper emergency safety procedures that are applicable to the facility, and any further requirements related to emergency response imposed by terms and conditions of this permit; and
  - (iii) familiarize the local police and fire departments, hospitals and any other local emergency service, with the properties of hazardous waste managed at the facility and the types of injuries or illness which could result from fires, explosions, or releases at the facility.
- (b) When a State or local agency declines to enter into the arrangements set forth in OAC Rule 3745-54-37(A), the Permittee shall document the refusal in the operating record as required by OAC Rule 3745-54-37(B).

B.14. Implementation of Contingency Plan

OAC Rules 3745-54-51 and 3745-54-56

The Permittee shall immediately carry out the provisions of the approved contingency plan and follow the emergency procedures described in OAC Rule 3745-54-56, whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which threatens or could threaten human health or the environment.

MAR 19 2007

---

In regard to spills and related toxic gas releases, the plan must describe the criteria to be used by the emergency coordinator to determine when the plan will be implemented. At a minimum, the plan must be implemented in the following situations:

- (a) Any spill or release of hazardous waste or hazardous waste constituents greater than or equal to 55 gallons;
- (b) Any fire involving hazardous waste;
- (c) Any explosion involving hazardous waste;
- (d) Any uncontrolled hazardous waste reaction that produces or has the potential to produce hazardous conditions, including noxious, poisonous, flammable and/or explosive gases, fumes, or vapors; harmful dust; or explosive conditions;
- (e) Any fire or explosion that has an increased potential to threaten human health or the environment due to its proximity to a hazardous waste management unit;
- (f) Any hazardous waste release, outside of a secondary containment system, that causes or has the potential to cause off-site soil and/or surface water or ground water contamination;
- (g) Any hazardous waste release that produces or has a potential to produce hazardous conditions, including noxious, poisonous, flammable and/or explosive gases, fumes, or vapors; harmful dust; or explosive conditions.
- (h) Any spill or release of hazardous waste or hazardous waste constituents that is reported to the National Response Center or local (state, city, or county) emergency response center because the spill exceeded the reportable quantity (RQ) limits as defined in 40 CFR 302.4.

**B.15. Content of the Contingency Plan**  
OAC Rule 3745-54-52

The Permittee shall comply with OAC Rule 3745-54-52 and the contingency plan, as set forth in Section G of the approved Part B permit application.

---

B.16. Contingency Plan - Released Material and Emergency Response Material and By-products  
OAC Rule 3745-54-56(G)

All liquid or solid material resulting from fire, explosion, released material or emergency response material and by-products that the permittee is required to evaluate to determine whether such material is hazardous waste in accordance with OAC Rule 3745-52-11, shall be collected and managed as a hazardous waste until such time as the Permittee can demonstrate that such waste is not hazardous in accordance with OAC Rules 3745-51-03(c) and (D).

B.17. Amendments to Plan  
OAC Rule 3745-54-54

The Permittee shall review the approved contingency plan at least annually and upon the occurrence of any event listed in OAC Rule 3745-54-54. If necessary or appropriate, the Permittee shall amend the contingency plan as required by OAC Rule 3745-54-54 in accordance with OAC Rule 3745-50-51.

B.18. Copies of Plan  
OAC Rule 3745-54-53

- (a) The Permittee shall comply with the requirements set forth in OAC Rule 3745-54-53 regarding contingency plan distribution.
- (b) The Permittee shall, in accordance with OAC Rule 3745-54-53, submit a copy of the approved contingency plan, to all local police departments, fire departments, hospitals, and local emergency response teams that may be called upon to provide emergency services. The Permittee shall notify such agencies and the local authorities, in writing, within ten (10) days of the effective date of any amendments of, revisions to, or modifications to the contingency plan.
- (c) The Permittee shall, in accordance with OAC Rule 3745-54-53, submit a copy of the approved contingency plan, to the Ohio Environmental Protection Agency's Division of Emergency and Remedial Response, Southeast District Office, 2195 Front Street, Logan, Ohio 43138.

MAR 19 2007

---

B.19. Emergency Coordinator  
OAC Rule 3745-54-55

The Permittee shall comply with the requirements set forth in OAC Rule 3745-54-55 regarding the emergency coordinator.

B.20. Emergency Procedures  
OAC Rules 3745-54-56 and 3745-51-01

The Permittee shall comply with the requirements set forth in OAC Rule 3745-54-56, Sections F and G of the approved Part B permit application, and the terms and conditions of this permit, regarding emergency procedures.

B.21. Availability, Retention and Disposition of Records  
OAC Rule 3745-54-74

The Permittee shall furnish upon Ohio EPA request, and retain all records at the facility in accordance with OAC Rule 3745-54-74.

B.22. Operating Record  
OAC Rule 3745-54-73

The Permittee shall comply with the requirements set forth in OAC Rule 3745-54-73 regarding an operating record, including information to be recorded and the maintenance thereof.

B.23. Contingency Plan Records  
OAC Rules 3745-54-73 and 3745-54-56-(J)

The Permittee shall note in the operating record the time, date, and details of any incident that requires the implementation of the contingency plan. Within fifteen (15) days of any such incident the Permittee shall submit to the director a written report of the incident containing the elements set forth in OAC Rule 3745-54-56(J).

B.24. Manifest System  
OAC Rules 3745-54-70, 3745-54-71, 3745-54-72 and 3745-54-76

In the management of waste at the facility the Permittee shall comply with the provisions of OAC Chapter 3745-52 and OAC Rules 3745-54-71, 3745-54-72 and 3745-54-76 with regard to the manifest system.

MAR 19 2007

---

B.25. Annual Reports and Additional Reports  
OAC Rules 3745-54-77 and 3745-54-75

The Permittee shall comply with the annual report requirements set forth in OAC Rule 3745-54-75 and the additional report requirements set forth in OAC Rule 3745-54-77.

B.26. Closure Performance Standard  
OAC Rule 3745-55-11

During facility closure, the Permittee shall implement the provisions of the approved closure plan, Section I in such a manner as to achieve compliance with OAC Rule 3745-55-11. Compliance with OAC Rule 3745-55-11 will be facilitated by referring to the Division of Hazardous Waste Management's most recent Closure Plan Review Guidance for RCRA facilities.

B.27. Closure Plan  
OAC Rules 3745-55-10, 3745-55-11, and 3745-55-13

The Permittee shall implement those procedures detailed within Section I of the approved application, in accordance with OAC Rules 3745-55-10 through 3745-55-20.

B.28. Amendment of Closure Plan  
OAC Rule 3745-55-12 and OAC Rule 3745-50-51

Should a change in the facility closure plan become necessary, the Permittee shall amend the approved closure plan in accordance with OAC Rule 3745-55-12 (C).

B.29. Content of Closure Plan  
OAC Rule 3745-55-12

The Permittee shall maintain the approved closure plan at the facility which contains the elements set forth in OAC Rule 3745-55-12 and all elements required by the terms and conditions of this permit.

B.30. Notification of Closure  
OAC Rule 3745-55-12

The Permittee shall notify the director in writing at least 45 days prior to the date on which he expects to begin final closure of a facility, as required by OAC Rule 3745-55-12(D).

---

**B.31. Time Allowed For Closure**  
OAC Rule 3745-55-13

After receiving the final volume of hazardous waste, the Permittee shall remove from the facility or treat or dispose of on site all hazardous waste in accordance with the approved closure plan within ninety (90) days. The Director may approve a longer period, if the Permittee complies with all applicable requirements for requesting a modification to the permit as set forth in OAC Rule 3745-55-13(A). The Permittee shall complete all closure activities within one hundred eighty (180), in accordance with OAC Rule 3745-55-13. The Director may approve a longer closure period, if the Permittee complies with all applicable requirements for requesting a modification (or revision) to the permit as set forth in OAC Rule 3745-55-13 (B).

**B.32. Disposal or Decontamination of Equipment, Structures, and Soils**  
OAC Rule 3745-55-14

- (a) The Permittee shall decontaminate and/or dispose of all contaminated facility equipment, structures, and soils, as required by OAC Rule 3745-55-14, the approved closure plan and the terms and conditions of this permit.
- (b) The Permittee shall notify the Ohio EPA Southeast District Office within five working days prior to all rinsewater and soil sampling.

**B.33. Certification of Closure**  
OAC Rule 3745-55-15

The Permittee and an independent, qualified, registered professional engineer shall certify that each hazardous waste management unit or the facility has been closed in accordance with the specifications in the approved closure plan and the terms and conditions of this permit, as required by OAC Rule 3745-55-15. The Permittee shall furnish to the director, upon request, documentation supporting the certification.

**B.34. Survey Plat**  
OAC Rule 3745-55-16

Reserved.

---

**B.35. General Post-Closure/Contingent Closure Requirements**

OAC Rule 3745-55-17, 3745-55-18, 3745-55-19, 3745-55-20

Reserved.

**B.36. Cost Estimate for Facility Closure**

OAC Rule 3745-55-42 and 3745-55-44

- (a) The Permittee's most recent closure cost estimate, prepared in accordance with OAC Rules 3745-55-42, 3745-55-44, 3745-55-97(C)(3) & (5), 3745-56-28(C)(3) and 3745-56-58(C)(2) is specified in Section I of the Part B permit application.
- (b) The Permittee must adjust the closure cost estimate for inflation within 60 days prior to the anniversary date of the establishment of the financial instrument(s) used to comply with OAC Rule 3745-55-43 and permit Condition B.39.
- (c) The Permittee must revise the closure cost estimate whenever there is a change in the facility's Closure Plan that increases the cost of closure, as required by OAC Rule 3745-55-42(C).
- (d) The Permittee must submit to the Ohio EPA and keep at the facility the latest closure cost estimate as required by OAC Rule 3745-55-42(D).

**B.37. Financial Assurance for Facility Closure**

The Permittee shall maintain continuous compliance with OAC Rule 3745-55-43 and provide documentation of financial assurance, which meets the requirements of OAC Rule 3745-55-51, in at least the amount of the cost estimates required by permit condition B.36.

**B.38. Liability Requirements**

The Permittee shall maintain continuous compliance with the requirement of OAC Rule 3745-55-47 and the documentation of liability by providing liability coverage which meets the requirements of OAC Rule 3745-55-51 for sudden accidental occurrences in the amount required by the applicable rules, exclusive of the legal defense costs.

---

**B.39. Incapacity of Owners or Operators, Guarantors, or Financial Institutions**  
OAC Rule 3745-55-48

The Permittee shall comply with requirements set forth in OAC Rule 3745-55-48 regarding the incapacity of owners, operators, guarantors or financial institutions.

**B.40. General Requirements for Land Disposal Restrictions**  
OAC Chapter 3745-270

The Permittee shall comply with all applicable regulations regarding land disposal prohibitions and restrictions as required by OAC Chapter 3745-270.

---

**MODULE C**

***This Module is Reserved***

**MODULE D - TANK STORAGE AND MANAGEMENT****D. TANK STORAGE AND MANAGEMENT**

The Permittee has applied for tanks #2104-F, #2105-F, and #2003-F to be permitted as greater than 90-day hazardous waste storage tanks. The tanks have a storage capacity of 200,000 gallons, 250,000 gallons, and 200,000 gallons, respectively. Tanks #2104-F and #2105-F hold the listed hazardous waste, K022 (distillation bottoms from the production of phenol and acetone from cumene) and characteristic hazardous waste, D018 (benzene). Tank #2003-F holds the characteristic wastes D001 (ignitability), D018, and D035 (methyl ethyl ketone); light oils used in the plant. All three tanks have overfill control, secondary containment, and organic vapor emission controls. Tanks #2104-F and #2105-F have scrubbers and tank #2003 has an internal floating roof. All three tanks are above ground with primarily above ground ancillary equipment and piping leading to four industrial boilers. The stored hazardous wastes are burned for energy recovery in the industrial boilers.

D.1. Process Capacity/Annual Limitation/Waste Identification  
ORC Section 3734.02(F) and OAC Rule 3745-50-43

- (a) The Permittee may store a total volume of 650,000 gallons of hazardous waste in three storage tanks, subject to the terms and conditions of this permit and as follows:

Tank No.	Capacity (Gallons)	Dimensions of Tank	Secondary Containment Required	Description of Hazardous Waste	Hazardous Waste No.
Tank #2104-F	200,000	33' x 31'	Yes - in place	Organic (phenol) bottoms and miscellaneous oils	K022, D018
Tank #2105-F	250,000	36' x 30'	Yes - in place	Organic (phenol) bottoms and Miscellaneous oils	K022, D018
Tank # 2003-F	200,000	33' & 28'	Yes - in place	Column tops and Miscellaneous oils	D001, D018, D035

MAR 19 2007

- (b) The Permittee shall store in tanks only the hazardous waste codes specified in the approved Part B permit application and summarized below:

D001, D018, D035, and K022.

- (c) The Permittee is prohibited from storing hazardous waste that is not identified in this permit condition.

D.2. Design and Installation of New Tank Systems or Components  
OAC Rule 3745-55-92

- (a) The Permittee shall construct the tank system and components in accordance with Section D of the approved Part B application.
- (b) Prior to operation of the newly constructed tank system, the Permittee shall submit the certification of installation of the tank system and components in accordance with OAC Rule 3745-55-92(B) to ensure that proper handling procedures were adhered to in order to prevent damage to the system during installation.

D.3. Containment and Detection of Releases.  
OAC Rule 3745-55-93

(a) New Tank Systems

The Permittee shall construct and operate the secondary containment system in accordance with requirements of OAC Rule 3745-55-93(B) through (F), and Section D of the approved Part B application.

New tanks at the facility are Tanks #2104-F, #2105-F, and #2003-F. These tanks were put into operation as greater than 90-day hazardous waste storage tanks in July, 1995; therefore they are considered to be "new" tank systems.

- (b) The Permittee shall operate the secondary containment system, in accordance with the detailed design plans and descriptions contained in the Part B permit application. The Permittee shall:
- (i) Maintain a containment system which includes a reinforced concrete base free of cracks and gaps and designed for efficient drainage to

MAR 19 2007

---

a central collection area within the containment area, which system is capable of containing leaks, spills, and accumulated precipitation until such time that the material is collected and removed.

- (ii) Maintain a curb structure which is capable of preventing migration of liquids to and from the containment area.

D.4. Operating Requirements  
OAC Rule 3745-55-94

- (a) The Permittee shall not place hazardous wastes or treatment reagents in the tank system if they could cause the tank, its ancillary equipment, or a containment system to rupture, leak, corrode, or otherwise fail.
- (b) The Permittee shall prevent spills and overflows from the tank or containment systems using the methods described in the Part B permit application. The Permittee shall comply with the requirements of OAC Rule 3745-55-96 if a leak or spill occurs in the tank system.

D.5. Inspection Schedules and Procedures  
OAC Rule 3745-55-95

- (a) The Permittee shall inspect the tank systems, in accordance with the Inspection Schedule and shall complete the items in permit conditions D.5(b) and D.5(c) as part of those inspections:
- (b) The Permittee shall inspect the overfill controls, in accordance with the procedure and schedule in the Part B permit application.
- (c) The Permittee shall inspect the following components of the tank system once each operating day:
  - (i) Above ground portions of the tank system, if any, to detect corrosion or releases of waste;
  - (ii) Data gathered from monitoring and leak detection equipment (e.g., pressure or temperature gauges, monitoring wells) to ensure that the tank system is being operated according to its design;

MAR 19 2007

- 
- (iii) Construction materials and the area immediately surrounding the externally accessible portion of the tank system, including the secondary containment system, to detect erosion or signs of releases of hazardous waste (e.g., wet spots, dead vegetation).
  - (d) The Permittee shall document compliance of permit condition D.5 in the operating record of the facility.
  - (e) The Permittee shall inspect the tanks in accordance with the compliance schedule, permit condition A.27.

D.6. Response to Leaks or Spills  
OAC Rule 3745-55-96

- (a) In the event of a leak or a spill from the tank system, from a secondary containment system, or if a system becomes unfit for continued use, the Permittee shall remove the system from service immediately and complete the following actions:
  - (i) Stop the flow of hazardous waste into the tank system or secondary containment system and inspect the system to determine the cause of the release.
  - (ii) Remove waste and accumulated precipitation from the system within 24 hours of the detection of the leak or accumulated precipitation or at an earlier practicable time to prevent further release or accumulation and to allow inspection and repair of the tank/containment system to be performed.
  - (iii) Contain visible releases to the environment. The Permittee shall immediately conduct a visual inspection of all releases to the environment and based on that inspection: (1) prevent further migration of the leak or spill to soils or surface water and (2) remove and properly dispose of any visible contamination of the soil or surface water.

- 
- (iv) Unless the requirements of permit conditions D.6.(b)(i) through D.6.(b)(vi) are satisfied, the Permittee shall close its tank system in accordance with OAC Rule 3745-55-97 and its approved closure plan, included in Section I of the Part B permit application, if there has been a leak or spill from the tank system, from a secondary containment system, or if a system becomes unfit for continual use.
- (b) Response to a leaking tank system:
- (i) For a release caused by a spill that has not damaged the integrity of the system, the Permittee shall remove the released waste and make any necessary repairs to fully restore the integrity of the system before returning the tank system to service.
- (ii) For a release caused by a leak from the primary tank system to the secondary containment system, the Permittee shall repair the primary system prior to returning it to service.
- (iii) For a release to the environment caused by a leak from a component of the tank system that is below ground and does not have secondary containment, the Permittee must provide this component with secondary containment that meets the requirements of OAC Rule 3745-55-93 before the component can be returned to service.
- (iv) For a release to the environment caused by a leak from the above ground portion of the tank system that does not have secondary containment, and can be visually inspected, the Permittee shall repair the tank system before returning it to service.
- (v) For a release to the environment caused by a leak from the portion of the tank system component that is not readily available for visual inspection, the Permittee shall provide secondary containment that meets the requirements of OAC Rule 3745-55-93 before the component can be returned to service.
- (vi) If the Permittee replaces a component of the tank system to eliminate the leak, that component must satisfy the requirements for new tank systems or components in OAC Rules 3745-55-92 and 3745-55-93.

MAR 19 2007

- 
- (c) For all major repairs to eliminate leaks or restore the integrity of the tank system, the Permittee must obtain a certification by an independent, qualified, registered professional engineer in accordance with OAC Rule 3745-50-42(D) that the repaired system is capable of handling hazardous wastes without release for the intended life of the system before returning the system to service. Examples of major repairs are:
- (i) installation of an internal liner, repair of a ruptured tank, or repair or replacement of a secondary containment vault.
  - (ii) replacement of significant lengths of piping.

D.7. Recordkeeping and Reporting

OAC Rules 3745-55-96, 3745-55-91(A), and 3745-55-92(G)

- (a) The Permittee shall report to the director, within 24 hours of detection, when a leak or spill occurs from the tank system or secondary containment system to the environment. A leak or spill of hazardous waste is exempted from this requirement if it is less than or equal to one pound, and is immediately contained and cleaned up. Releases that are contained within a secondary containment system need not be reported.
- (b) Within 30 days of detecting a release to the environment from the tank system or secondary containment system, the Permittee shall report the following information to the director: [OAC Rule 3745-55-96(D)(3)]
  - (i) Likely route of migration of the release;
  - (ii) Characteristics of the surrounding soil (including soil composition, geology, hydrogeology, and climate);
  - (iii) Results of any monitoring or sampling conducted in connection with the release. If the Permittee finds it will be impossible to meet this time period, the Permittee should provide the director with a schedule of when the results will be available. This schedule must be provided before the required 30-day submittal period expires;
  - (iv) Proximity of downgradient drinking water, surface water, and populated areas; and

- 
- (v) Description of response actions taken or planned.
  - (c) The Permittee shall submit to the director all certifications of major repairs to correct leaks within seven days from returning the tank system to use.
  - (d) The Permittee shall obtain, and keep on file at the facility, the written statements by those persons required to certify the design and installation of the tank system.
  - (e) The Permittee shall keep on file at the facility the written assessment of the tank system's integrity.
  - (f) The Permittee shall maintain at the facility a record of the results of leak tests and integrity tests conducted, in accordance with permit conditions D.3(b)(i) through D.3(b)(ii).

D.8. Closure and Post-Closure Care

OAC Rule 3745-55-97

- (a) At closure of the tank system(s), the Permittee shall follow the procedures in the closure plan included in Section I of the Part B permit application.
- (b) If the Permittee demonstrates that not all contaminated soils can be practically removed or decontaminated, in accordance with the closure plan, then the Permittee shall close the tank system(s) and perform post-closure care following the contingent procedures in the closure plan and in the post-closure plan.

D.9. Special Tank Provisions for Ignitable or Reactive Wastes

OAC Rule 3745-55-98

- (a) The Permittee shall not place ignitable or reactive waste in the tank system or in the secondary containment system, unless the procedures specified in the Part B permit application are followed. The Permittee shall document compliance with this condition and place it in the operating record.

- 
- (b) The Permittee shall comply with the requirements for the maintenance of protective distances between the waste management area and any public ways, streets, alleys, or an adjoining property line that can be built upon, as required in Tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code" (1991 or most recent edition) incorporated by reference in OAC Rule 3745-50-11.

D.10. Special Tank Provisions for Incompatible Wastes  
OAC Rule 3745-55-99

- (a) The Permittee shall not place incompatible wastes, or incompatible wastes and materials, in the same tank system or the same secondary containment system, unless the procedures specified in the Part B permit application are followed. The Permittee shall document compliance with this condition and place that documentation into the operating record.
- (b) The Permittee shall not place hazardous waste in a tank system that has not been decontaminated and that previously held an incompatible waste or material, unless the requirements of permit condition D.10(a) are met.

MAR 19 2007

---

## MODULE E - CORRECTIVE ACTION REQUIREMENTS

### Corrective Action Summary

The Permittee received Federal interim status from U.S. EPA on December 9, 1981. A Consent Agreement and Final Order (CAFO) was reached between the Permittee and U.S. EPA on December 27, 1988, for the removal and proper treatment of contaminated soils from the Phenol Railroad Loading Area (WMU #53) and the Wastewater Ditches and Settling Ponds (WMU #67). The CAFO was issued as an interim measure to address the immediate threat to human health and the environment at these two WMUs. Based on reports from preliminary review, site, and sampling visits that occurred in April 1987 and October 1987, 69 WMUs and 9 AOCs were identified in a RFA report dated January 9, 1989.

On April 9, 1993, the Permittee received a Federal permit from U.S. EPA. The Permittee requested and received a modification to the permit to close out the CAFO and address the remaining clean up of WMUs #53 and #67 under the Corrective Action requirements of their Federal Part B permit. The permit was revised to reflect this on November 2, 1994.

The Permittee submitted an RFI Workplan, Assessment of Current Conditions (ACC), and QAPP to U.S. EPA on July 21, 1993. The ACC provided information on a total of 115 WMUs at the facility; 69 WMUs identified by U.S. EPA and 46 additional WMUs identified by the Permittee. After several revisions, U.S. EPA issued conditional approval of the RFI Workplan on July 7, 1995. On April 25, 1996, the Permittee submitted the Draft RFI report to U.S. EPA. The Permittee identified 39 WMUs requiring additional investigation or discussion in the 1996 RFI. The 1996 RFI stated the Corrective Measures Technology for these 39 WMUs was "no action". On March 16, 1998, the Permittee submitted a response to U.S. EPA addressing their comments on the Draft RFI report. U.S. EPA received RFI addendums from the Permittee in June 2001, February 2003 and August 2006.

Transition of corrective action authority from U.S. EPA to Ohio EPA will occur after approval of the final RFI report. Ohio EPA will then begin oversight of the Permittee's implementation of the corrective action process, beginning with permit Condition E.8. (Corrective Measures Study).

MAR 19 2007

---

E.1. Corrective Action at the Facility  
OAC Rules 3745-50-10 and 3745-54-101

In accordance with OAC Rule 3745-50-10 "waste management unit" means any discernible unit at which wastes have been placed at any time, irrespective of

whether the unit was intended for the management of waste or hazardous waste. Such units include any area at a Facility at which wastes have been routinely and systematically released. As used in this permit the term "waste management unit" shall be consistent with and equivalent to the term "solid waste management unit" as that term is defined in Section 3004(u) of RCRA. For the purpose of Corrective Action, facility is defined as all contiguous property under the control of the owner or operator seeking a permit under Subtitle C of RCRA. The terms Interim Measure (IM), RCRA Facility Investigation (RFI), Corrective Measures Study (CMS) and Corrective Measure Implementation (CMI) are defined in Attachment 1 U.S. EPA's Corrective Action Plan (CAP).

The Permittee must institute Corrective Action as necessary to protect human health and the environment for all releases of hazardous waste(s) or hazardous constituent(s) from any waste management units (WMUs) at the Facility, regardless of the time at which waste was placed in such units.

E.2. Corrective Action Beyond the Facility Boundary  
OAC Rules 3745-54-101

The Permittee must implement Corrective Action(s) beyond the Facility property boundary, where necessary to protect human health and the environment, unless the Permittee demonstrates to the satisfaction of Ohio EPA that, despite the Permittee's best efforts, the Permittee was unable to obtain the necessary permission to undertake such actions. The Permittee is not relieved of all responsibility to clean up a release that has migrated beyond the Facility boundary where off-site access is denied. On-site measures to address such releases will be addressed under the RFI, CMS, and CMI phases, as determined to be necessary on a case-by-case basis.

E.3. Identification of WMUs  
OAC Rules 3745-50-44(D) and 3745-54-101

The following table summarizes the 39 WMUs that the Permittee identified as requiring additional investigation/discussion in the 1996 RFI. A detailed summary of each WMU is included in the Permittee's April 1996 RFI. The following is a listing of these WMUs.

MAR 19 2007

WMU ID #	Description of WMU
<b>Group 1</b>	<b>Wastewater/Land Treatment Areas, Lagoons and Ponds</b>
9	Alcohol Holding Basin
12	Alcohol Pond
13	West Lagoon
30	100/800 Sumps Drying Area
32	Sludge Lagoons
33	Aeration Lagoon
34	Polystyrene Lagoons
35	Reactor Blowdown Area
55	Land Treatment Area
100	Land Application Biosolids & Sediment Settling Pond Areas
114	BPA Maintenance & Central Stores
<b>Group 2</b>	<b>Basins, Pits, Sewers, Sumps and Tanks</b>
11	Alcohol Sludge Pit
24	Sludge Pit
38	2422-A, 2423-A, 2424-A Holding Basins
54	2429-A Clarifier Blowdown Pits
59	TK-902 Sump
61	TK-903/904 Sump
69	Process Stormwater Sewers
84	Fire Burning Pit
98	Septic Oil Traps
99	Cobalt Catalyst Tank
103	D-143 Bio-waste Oil Collection Tank
115	2102-FA Tank

MAR 19 2007

WMU ID #	Description of WMU
<b>Group 3</b>	<b>Solid Waste Handling, Loading and Storage Areas</b>
15	Alcohol RR Loading Areas
65	BPA RR Loading Areas
66	BD-908 Drum Storage Area
<b>Group 3 (cont.)</b>	<b>Solid Waste Handling, Loading and Storage Areas</b>
86	Surplus Equipment/Scrap Drum Area
87	Coal Yard/Ash Storage
88	Waste Drum Storage Area
93	Ash Silo/Ash Loading Area
97	BD-17 Waste/Surplus Drum Storage Area
<b>Group 4</b>	<b>RCRA Closure Areas</b>
51	Underground Injection Wells 1 & 2
56	Northwest Lagoon
57	Boilers
62	East Pond
63	West Pond
<b>Group 5</b>	<b>CAFO Areas</b>
53	Phenol RR Loading Area
67	Wastewater Ditches & Settling Ponds
68	Emergency Dikefields

E.4 ReservedE.5 RFI  
OAC Rule 3745-54-101

The Permittee is in the process of conducting an RFI to thoroughly evaluate the nature and extent of the release of hazardous waste(s) and hazardous constituent(s) from all WMUs identified in Condition E.3. above. In the event that additional waste management units are discovered, or there are new releases from

MAR 19 2007

---

existing waste management units, it may be necessary for the Permittee to prepare and submit an RFI for the newly discovered units or releases to Ohio EPA. The major tasks and required submittal dates for a RFI are shown below. The scope of work for each of the tasks is found in Attachment 1, U.S. EPA's CAP. *The conditions below are applicable only to RFI work pursuant to discovery of a new waste management unit or a new release from an existing waste management unit.*

(a) RFI Workplan

The Permittee shall submit a written RFI Workplan to Ohio EPA on a time frame to be established by Ohio EPA.

- (i) If necessary, Ohio EPA shall provide written comments on the RFI Workplan to the Permittee.
- (ii) Within 45 days of receipt of Ohio EPA's comments, the Permittee shall submit either an amended or new RFI Workplan that incorporates Ohio EPA's comments. The Permittee may request an extension to the response period, not to exceed an additional 30 days, should the extent and nature of the comments warrant additional time to respond.
- (iii) Ohio EPA shall approve or modify and approve, in writing, the amended or new RFI Workplan. The RFI Workplan, as approved or as modified and approved, shall be incorporated into this permit and become an enforceable condition of this permit. Subsequent changes to the approved RFI Workplan must be authorized by Ohio EPA.

(b) RFI Implementation

The RFI Workplan must include a schedule for implementation.

The Permittee shall implement the RFI Workplan according to the terms and schedule in the approved RFI Workplan.

(c) RFI Final Report

Within 60 days after the completion of the RFI, the Permittee shall submit an RFI Final Report to Ohio EPA. The RFI Final Report shall describe the procedures, methods, and results of the RFI. The Final Report must contain adequate information to support further decisions concerning Corrective Action at the Facility.

MAR 19 2007

- 
- (i) If necessary, Ohio EPA shall provide written comments on the RFI Report to the Permittee.
  - (ii) Within 45 days of receipt of Ohio EPA's comments, the Permittee shall submit either an amended or new RFI Report that incorporates Ohio EPA's comments. The Permittee may request an extension to the response period, not to exceed an additional 30 days, should the extent and nature of the comments warrant additional time to respond.
  - (iii) Ohio EPA shall approve or modify and approve, in writing, the amended or new RFI Report. The RFI Report, as approved or as modified and approved, shall be incorporated into this permit and become an enforceable condition of this permit. Subsequent changes to the approved RFI Report must be authorized by Ohio EPA.

#### E.6 Interim Measures

No interim measures have been identified at this time. Based on the RFI Final Report or other information documenting a release of hazardous waste or constituents to the environment, Ohio EPA may require the development and implementation of an interim measure (this may include an IM Workplan) at any time during the life of the permit to mitigate or eliminate a threat to human health or the environment.

#### E.7 Determination of No Further Action

##### (a) Permit Modification

Based on the results of the completed RFI and other relevant information, the Permittee may submit an application to Ohio EPA for a Class 3 permit modification under OAC Rule 3745-50-51 to terminate the Corrective Action tasks of the Schedule of Compliance. Other tasks identified in the Schedule of Compliance shall remain in effect. This permit modification application must conclusively demonstrate that there are no releases of hazardous waste or constituents from WMUs at the Facility that pose a threat to human health and the environment.

If, based upon review of the Permittee's request for a permit modification, the results of the completed RFI, and other information, including comments received during the initial (60-day) public comment period required for Class 3 permit modifications, Ohio EPA determines that releases or suspected

MAR 19 2007

releases which were investigated either are nonexistent or do not pose a threat to human health and the environment, Ohio EPA will approve the requested modification.

(b) Periodic Monitoring

A determination of no further action shall not preclude Ohio EPA from requiring continued or periodic monitoring of air, soil, ground water, or surface water, if necessary to protect human health and the environment, when site-specific circumstances indicate that potential or actual releases of hazardous waste or constituents are likely to occur.

(c) Further Investigations

A determination of no further action shall not preclude Ohio EPA from requiring further investigations, studies, or remediation at a later date, if new information or subsequent analysis indicates that a release or likelihood of a release from a WMU at the Facility is likely to pose a threat to human health or the environment. In such a case, Ohio EPA shall initiate a modification to the terms of the permit to rescind the determination made in accordance with permit condition E.7.a. Additionally, in the event Ohio EPA determines that there is insufficient information on which to base a determination, the Permittee, upon notification, is required to perform additional investigations as needed.

E.8 Corrective Measures Study (CMS)

If Ohio EPA determines, based on the results of the RFI and any other relevant information, that Corrective Measures are necessary, Ohio EPA will notify the Permittee in writing that the Permittee shall conduct a CMS either as described below or as described in Ohio EPA's notification to the Permittee. The purpose of the CMS will be to develop and evaluate the Corrective Action alternative(s) and to outline one or more alternative corrective measure(s) that will satisfy the performance objectives specified by Ohio EPA.

(a) CMS Workplan

The Permittee shall submit a written CMS Workplan to Ohio EPA within 90 days from the notification by Ohio EPA of the requirement to conduct a CMS.

- (i) If necessary, Ohio EPA shall provide written comments on the CMS Workplan to the Permittee.

MAR 19 2007

- 
- (ii) Within 45 days of receipt of Ohio EPA's comments, the Permittee shall submit either an amended or new CMS Workplan that incorporates Ohio EPA's comments. The Permittee may request an extension to the response period, not to exceed an additional 30 days, should the extent and nature of the comments warrant additional time to respond.
  - (iii) Ohio EPA shall approve or modify and approve, in writing, the amended or new CMS Workplan. The CMS Workplan, as approved or as modified and approved, shall be incorporated into this permit and become an enforceable condition of this permit. Subsequent changes to the approved CMS Workplan must be authorized by Ohio EPA.

(b) CMS Workplan Implementation

The CMS Workplan must include a schedule for implementation.

The Permittee shall implement the CMS Workplan according to the terms and schedule in the approved CMS Workplan.

(c) CMS Final Report

Within 60 days after the completion of the CMS, the Permittee shall submit a CMS Final Report to Ohio EPA. The CMS Final Report shall summarize the results of the investigations for each remedy studied and must include and evaluation of each remedial alternative.

- (i) If necessary, Ohio EPA shall provide written comments on the CMS Report to the Permittee.
- (ii) Within 45 days of receipt of Ohio EPA's comments, the Permittee shall submit either an amended or new CMS Report that incorporates Ohio EPA's comments. The Permittee may request an extension to the response period, not to exceed an additional 30 days, should the extent and nature of the comments warrant additional time to respond.

- (iii) Ohio EPA shall approve or modify and approve, in writing, the amended or new CMS Report. The CMS Report, as approved or as modified and approved, shall be incorporated into this permit and become an enforceable condition of this permit. Subsequent changes to the approved CMS Report must be authorized by Ohio EPA.

#### E.9 Corrective Measures Implementation (CMI)

Based on the results of the CMS, the Permittee shall implement one or more of the Corrective Measures authorized by Ohio EPA. Ohio EPA shall authorize one or more of the Corrective Measures in the CMS, and shall notify the Permittee in writing of the decision. The Corrective Measure selected for implementation must:

(1) be protective of human health and the environment; (2) attain media cleanup standards; (3) control the source(s) of releases so as to reduce or eliminate further releases of hazardous waste(s) (including hazardous constituent(s)); and (4) comply with all applicable standards for management of wastes.

If two or more of the Corrective Measures studied meet the threshold criteria set out above, Ohio EPA will authorize the Corrective Measures Implementation by considering remedy selection factors including: (1) long-term reliability and effectiveness; (2) the degree to which the Corrective Measure will reduce the toxicity, mobility or volume of contamination (3) the Corrective Measure's short-term effectiveness; (4) the Corrective Measure's implementability; and (5) the relative cost associated with the alternative.

In authorizing the proposed Corrective Measure(s), Ohio EPA may also consider such other factors as may be presented by site-specific conditions.

##### (a) Permit Modification

Ohio EPA will initiate a permit modification, as provided by OAC Rule 3745-50-51 to require implementation of the corrective measure(s) authorized.

The Permittee shall not implement the corrective measure until the permit is modified pursuant to OAC Rule 3745-50-51.

##### (b) Financial Assurance

OAC Rule 3745-54-101

As part of the modification of this permit to incorporate CMI, the Permittee shall provide financial assurance in the amount necessary to implement the corrective measure(s) as required by OAC Rule 3745-54-101 (B) and (C).

MAR 19 2007

---

E.10 Newly Identified WMUs or Releases  
OAC Rule 3745-54-101

(a) General Information

The Permittee shall submit to Ohio EPA, within 30 days of discovery, the following information regarding any new WMU identified at the Facility:

- (i) The location of the unit on the site topographic map;
- (ii) Designation of the type of unit;
- (iii) General dimensions and structural description (supply any available drawings);
- (iv) When the unit was operated; and
- (v) Specification of all waste(s) that have been managed at the unit.

(b) Release Information

The Permittee shall submit to Ohio EPA, within 30 days of discovery, all available information pertaining to any release of hazardous waste(s) or hazardous constituent(s) from any new or existing WMU.

E.11 Corrective Action for Newly Identified WMUs and Releases  
OAC Rule 3745-54-101

The Permittee shall submit a written RCRA Facility Investigation Workplan to Ohio EPA upon a timeframe established in written notification by Ohio EPA, when further investigations or Corrective Measures are necessary.

Further investigations or Corrective Measures will be established by Ohio EPA.

MAR 19 2007

---

**MODULE F**

***This Module is Reserved***

---

**MODULE G**

***This Module is Reserved***

---

**MODULE H**

***This Module is Reserved***

---

## MODULE I - BOILERS

### I.1. General

The Permittee must meet the applicable requirements of OAC Rules 3745-266-100 through 112 - Hazardous Waste Boilers and Industrial Furnaces (BIF Rule). The Permittee must also meet the applicable requirements of ORC Section 3734.20 and OAC Chapters 3745-54 and 3745-55, including:

- (a) Closure and Post-Closure. (OAC Rules 3745-55-11 through 15)
- (b) Financial Requirements. (OAC Rules 3745-55-41 through 43, 47 through 51)

All Conditions of Module I are intended to ensure compliance with the requirements of the BIF Rule. Conditions I.2. through I.3(d) of Module I may be removed from this permit through a permit modification once the Permittee submits the notification of compliance pursuant to 40 CFR §§ 63.1207(j) and 63.1210(b) demonstrating compliance with the requirements of 40 CFR Part 63 Subpart EEE.

### I.2. Hazardous Waste Fuels

The hazardous waste fuels burned in the boilers must either be heavy hydrocarbons (HHC) or light hydrocarbons (LHC) as defined herein. These two hazardous fuel streams shall be separately handled, stored, and tested prior to firing in the boilers. The waste analysis plan shall be as described in the Waste Analysis for BIF Rule Compliance, submitted to Ohio EPA in September 2005.

#### (a) Heavy Hydrocarbons (HHC)

The HHC, stored in Tanks 2104-F, 2105-F, and 2108-F may be generated from the following sources:

- (i) Phenol distillation column bottom tars from 328-F (K022),
- (ii) Used compressor oil from ammonia compressor J-10 (D018),
- (iii) Aniline distillation column bottoms from E-50,
- (iv) Phenol vaporizer hydrocarbon purge from C-16 (D018),

MAR 19 2007

- 
- (v) Aniline process vessel hydrocarbon purges from E-30 and E-40 columns, and
  - (vi) BPA (bisphenol A) purification system column bottom tars from D-802.

(b) Light Hydrocarbons (LHC)

The LHC, generated from phenol process, aniline process, and waste lubricating oil, must be stored in Tank 2003-F. The LHC fuel may include the following sources:

- (i) Condensable organics, 334-F purge from 304-F and 307-F emission control systems (D001 and D018),
- (ii) Organic waste, 325-F purge from 308-EA overhead accumulator (D001 and D018),
- (iii) Spent emissions scrubber fluid from 2502-LF (D001 and D018),
- (iv) AMS distillation column bottoms from 501-E (D001),
- (v) Condensable organics from scrubber outlet condenser 2105-CVC (D001 and D018),
- (vi) Phenol wastewater treatment system skimmed oil from 2421-F (D001 and D018),
- (vii) Waste lubricating oils,
- (viii) Waste hydrocarbon from the aniline/ammonia recovery system F-113 (D001, D018), and
- (ix) Purification system light hydrocarbons from 503-E ethylbenzene removal column overhead (D001, D018, and D035).

(c) Hazardous Waste Fuel Analysis

- (i) HHC and LHC must be managed in on-site tanks and in accordance with the Waste Analysis for BIF Rule Compliance. Samples shall be

MAR 19 2007

taken and analyzed to determine: (1) the average higher heating value in Btu/pound, (2) metals concentrations, (3) ash content, (4) chlorine/chloride, and (5) other factors limiting the boiler operation to comply with the regulatory requirements.

- (ii) The sample analysis results should be used for computing the required hazardous waste fuel input to each boiler for the purpose of meeting the boiler operating conditions and the emission limits, hereinafter stipulated.

(d) Hazardous Waste Fuel Feed Limits

- (i) The hazardous waste fuel feed rate limits on metals and on total chloride and chlorine set forth herein are based on the approved trial burn report and the Adjusted Tier I feed rate screening limits in OAC Rules 3745-266-106 and 107. For any significant changes in the hazardous waste fuel characteristics due to changes in the manufacturing process which may affect the compliance to the BIF Rule (OAC Rules 3745-266-106 and 107), the Permittee must process a Class 3 permit modification in accordance with OAC Rule 3745-50-51.
- (ii) The hourly rolling average (HRA) total ash feed rate to each boiler and ash concentrations in waste fuel, based on each mode of operation as defined in Condition I.3 of this permit module, shall not exceed the following.

Mode of Operation	Fuel	Max. Ash Feed Rate	Max. Ash Concentration
A	HHC and LHC	12,000 gram/hour	1.0 %
B	HHC	11,500 gram/hr/boiler	1.5 %
	LHC	10,030 gram/hr/boiler	1.5 %

Under Mode of Operation A, both HHC and LHC are permitted to be fired in Boiler UC simultaneously upon completion of boiler burner modification in accordance with the revised trial burn plan submitted in November 2005.

MAR 19 2007

- (iii) The maximum allowable feed rates for metals and chlorine/chloride in fuel, based on each mode of operation as defined in Condition I.3 of this permit module, shall be as listed in the following Table I.1. The basis for fuel metal and chlorine/chloride concentrations in Table I.1 is as follows:

Basis Table

Mode of Operation	HHC Feed Rate	LHC Feed Rate
A (Normal Operation)	186.0 pound/minute	9.0 pound/minute
B (Back-up Operation)	93.0 pound/min//boiler	73.1 pound/min/boiler

TABLE I.1

No.	Constituents	Maximum Allowable Feed Rate (HRA)					
		Mode A: Normal		Mode B: Back-up			
		HHC and LHC		HHC		LHC	
		gram/hr	ppm	gram/hr	ppm	gram/hr	ppm
1	Arsenic (As)	3.07	0.58	2.55	1.0	1.01	0.75
2	Beryllium (Be)	1.12	0.21	0.56	0.5	0.24	0.25
3	Cadmium (Cd)	1.49	0.28	1.19	1.8	0.25	0.25
4	Total Chromium (Cr)	17.2	3.24	16.34	7.0	0.54	1.0
5	Antimony (Sb)	4,000	754	2,000	100	1,688	100
6	Barium (Ba)	666,600	125,000	333,333	100	281,250	100
7	Lead (Pb)	1,200	226	600	100	506	100
8	Mercury (Hg)	1,067	201	533	100	450	100
9	Silver (Ag)	40,000	7,537	20,000	100	16,875	100
10	Thallium (Ti)	4,000	754	2,000	100	1,688	100
11	Cl <sub>2</sub> /Chloride	5,333	1,005	2,667	100	2,250	100

MAR 19 2007

- 
- (iv) The maximum allowable total stream mass feed rates listed in the Basis Table should be adjusted according to the actual concentrations of metals and chlorine/chloride to the boilers to ensure that the maximum allowable emission rates for the regulated metals and chlorine/chloride will not be exceeded.

(e) HHC and LHC Management and Analysis

The flow of HHC and LHC fuels must be managed as described in the flow diagrams attached hereinafter as Attachments A and B respectively.

Hazardous fuels sampling strategies, analytical parameters, methods and rationale must be in accordance with: (1) OAC Rule 3745-266-102, (2) the Waste Analysis for BIF Rule Compliance, submitted to Ohio EPA in September 2005, and (3) Section C of the Part B permit application, entitled "Waste Characteristics and Waste Analysis Plan."

(f) HHC Preheating System (2105-C, 2007-C)

HHC supplied from the storage tanks must be preheated through a fuel heater preset at a temperature no less than 180 degrees F prior to firing in the boilers. The fuel temperature must be recorded at least two times a day in the boiler operating record.

I.3. Boilers (UA, UB, UC, and UE)

Hazardous waste fuels may be burned in boilers designated as UA, UB, UC, and UE. No. 2 or No. 6 fuel oils may be used for the boiler operations, only when hazardous waste fuel (HHC or LHC) is not co-fired with the fuel oil.

(a) Special Requirements for Burning Hazardous Waste Fuels

The Permittee must operate the boilers under either Mode A or Mode B operation. Mode A operation is defined as: "Normal Operation" and must be conducted in Boiler UC only. Mode B is defined as: "Back-up Operation."

Mode A Operation - Normal Operation:

- (i) Under Mode A operation, HHC and LHC are allowed to be co-fired in Boiler UC. The operating conditions must be in accordance with the trial burn plan and herein specified.

- 
- (ii) Boilers UA, UB, and UE must not burn HHC or LHC during Mode A operation.

Mode B Operation - Back-up Operation:

- (iii) HHC can only be fired in Boilers UA and UB. The maximum feed rate to a boiler shall be as hereinbefore specified.
- (iv) LHC can be burned in Boilers UA, UB or UE with a maximum feed rate of 73.1 pounds/minute. Only one boiler is allowed to burn LHC at any given time.
- (v) Boiler UE is not allowed to burn HHC.
- (vi) HHC and LHC cannot be co-fired in Boilers UA, UB, and UE at the same time.
- (vii) No hazardous waste fuel shall be used in cold start up of any boiler. Hazardous waste fuel is allowed only when the boiler has reached its minimum combustion chamber temperature.
- (viii) Hazardous waste fuel should primary be used for base-load boiler operations. When load-following operation is needed, natural gas should be used.
- (ix) During a boiler shut down, the hazardous waste fuel feed must be discontinued first before the natural gas fuel is throttled down and shut off except during the boiler trip.
- (x) During a boiler trip for emergency shut down, the hazardous waste fuel supply to the boiler shall be automatically shut off or at its fail safe position (closed).
- (xi) No hazardous waste should be fired with fuel oil (No.2 or No.6).

(b) Boiler Operating Conditions

- (i) The Permittee must operate the boilers when burning hazardous waste fuel in accordance with the limits listed in Table I.2.
- (ii) The parameters listed in Table I.2 (noted as MR), which are not part of the DCS, must be monitored at least once per 12 hours and recorded in a boiler operating log. The Permittee must adjust the boiler operation such that it returns to compliance with the limit within

---

six hours from the discovery of the deviation from the limit established herein. If the Permittee is unable to correct the operational problems which cause such deviation within six hours, the Permittee must discontinue burning hazardous waste in the boiler, until all monitoring parameters are within the permitted ranges.

MAR 19 2007

TABLE I.2

No.	Parameters	Monitoring <sup>(1)</sup>	Mode A	Mode B	
			UC	UA/UB	UE
1	Normal Steam Header Pressure, psig	MR	420 -480	420-480	420 - 480
2	Minimum Feedwater Supply Temperature, ° F	MR	220 <sup>(2)</sup>	220 <sup>(2)</sup>	220 <sup>(2)</sup>
3	Min. Atomizing Steam Differential Pressure, psi	MR	7	7	7
4	Min. Soot Blowing Frequency, times/day	MR	1	1	1
5	Min. Fuel Preheater Outlet Temperature, ° F	MR	180	180	NA <sup>(3)</sup>
6	Max. Total Heat Input firing with HHC, MM Btu/hr	DAS	NA	171	NA
7	Max. Total Heat Input firing with LHC, MM Btu/hr	DAS	NA	174	174
8	Max. Total Heat Input firing with HHC and LHC combined, MM Btu/hr	DAS	186.4	NA	NA
9	Max. HHC Input, pounds/minute	DAS	NA	93	0
10	Max. LHC Input, pounds/minute	DAS	NA	73.1	73.1
11	Max. Steam Output firing with HHC, pounds/hr	DAS	NA	137,300	NA
12	Max. Steam Output firing with LHC, pounds/hr	DAS	NA	139,800	132,900
13	Max. Steam Output firing with HHC and LHC combined, pounds/hr	DAS	150,000	NA	NA
14	Min. Steam Output firing with HHC, pounds/hr	DAS	NA	81,300	NA
15	Minimum Steam Output firing with LHC, pounds/hr	DAS	NA	81,300	65,500
16	Min. Steam Output firing with HHC and LHC combined, pounds/hr	DAS	28,500	NA	NA
17	Max. Combustion Air Flow firing with HHC, scfm	DAS	NA	34,809	NA
18	Max. Combustion Air Flow firing with LHC, scfm	DAS	NA	34,809	38,403
19	Max. Combustion Air Flow with HHC and LHC combined, scfm	DAS	38,700	NA	NA
20	Max Boiler Firebox Temperature firing with HHC, °F	DAS	NA	2,072	NA
21	Max. Boiler Firebox Temperature firing with LHC, °F	DAS	NA	2,092	1,962
22	Max. Boiler Firebox Temperature firing with HHC and LHC combined, °F	DAS	2,100	NA	NA
23	Min. Boiler Firebox Temperature firing with HHC, °F	DAS	NA	1,641	NA
24	Min. Boiler Firebox Temperature firing with LHC, °F	DAS	NA	1,641	1,698
25	Min. Boiler Firebox Temperature firing with HHC and LHC combined, °F	DAS	1,500	NA	NA
26	Max. CO Conc. (60-min.average), ppmv dry @ 7 % O <sub>2</sub>	DAS	100	100	100

(1) MR = Manual Recordkeeping; DAS = Data Acquisition System

(2) Lower temperature is allowed only in case of emergency (e.g., boiler low water level alarm) when feedwater must be fed into the boiler by bypassing the deaerating feedwater heater.

(3) NA: Not Applicable

MAR 19 2007

---

(c) Automatic Waste Feed Cut-Offs (AWFCOs) Requirements

The parameters listed in Table I.2 (noted as DAS) for which signals are transmitted and displayed through the DAS must be monitored continuously. When any one of these limits is exceeded, it must actuate the automatic waste feed cut-off system.

(d) Boiler Ancillary Equipment

The deaerating feedwater heater, chemical feed system, continuous blow-down, blow-off system, boiler trims, high and low level alarms, feedwater regulator, and instrumentation and control systems must be properly maintained to safeguard the operations of the boilers.

(e) Boiler System Maintenance Requirements

- (i) Each boiler must be cleaned, as required, by removing, to the extent practicable, all accumulated ash in the boiler. The boiler ash from burning HHC must be handled, transported and disposed of as hazardous waste.
- (ii) Each boiler must meet the requirements of American Society of Mechanical Engineers' (ASME) Pressure Vessel Code or equivalent standards.
- (iii) The Distributed Control System (DCS) including the data acquisition system must be maintained as recommended by the instrumentation suppliers or in a technically equivalent manner, and calibrated as necessary to maintain the design accuracies.
- (iv) Each boiler must be maintained to meet the definition of boiler as per OAC Rule 3745-50-10.
- (v) The mass flow meter for HHC and LHC must be calibrated/adjusted annually to maintain their required accuracy.

(f) Modification to Boiler UC and Trial Burn

- (i) The Permittee must modify Boiler UC in accordance with the Class 3 permit modification request that the Permittee submitted to Ohio EPA in November 2005. The trial burn plan submitted in November 2005 is hereby incorporated into this permit by reference.

MAR 19 2007

- 
- (ii) Upon completion of Boiler UC modification, the Permittee may start up and operate the boiler under Mode A, as described in Condition I.3 of this permit module, for a period no longer than 720 hours for the purpose of testing, adjusting, setting the associated equipment, and preparing for the trial burn. Extension may be granted by the Director, provided a written request is submitted and approved by the Director.
- (aa) On December 29, 2005, the Director of the Ohio EPA granted the Permittee a temporary authorization pursuant to OAC Rule 3745-50-51(F) to start up and operate Boiler UC in accordance with the November 2005 Boiler UC RCRA Trial Burn Plan, as revised December 15, 2005. In addition to the temporarily authorized activities, the Permittee is granted an extension of one additional 720-hour pretrial burn period to operate Boiler UC.
- (iii) The Permittee must conduct a trial burn for Boiler UC, in accordance with the approved trial burn plan within six months from the date Ohio EPA approved the Class 3 permit request. The Permittee must operate Boiler UC within the limits specified in the approved trial burn plan and must operate the AWFCO system in accordance with the set-points specified in the trial burn plan.
- (iv) Within 90 days from the completion of the trial burn, the Permittee must submit to Ohio EPA a complete trial burn report. Prior to Ohio EPA's approval of the trial burn report, the Permittee may operate Boiler UC under Mode A with maximum limits no greater than 95 % of those specified in Module I of this permit.
- (v) Ohio EPA may impose additional conditions or change Condition I.3(f)(iv), if Ohio EPA determines that Boiler UC should operate under more stringent conditions than those specified in Module I of this permit. Ohio EPA's determination will be based on the conditions observed during the trial burn.
- (vi) Upon completion of Ohio EPA's review of the trial burn results, final permit conditions for the boiler operations will be established by Ohio

MAR 19 2007

---

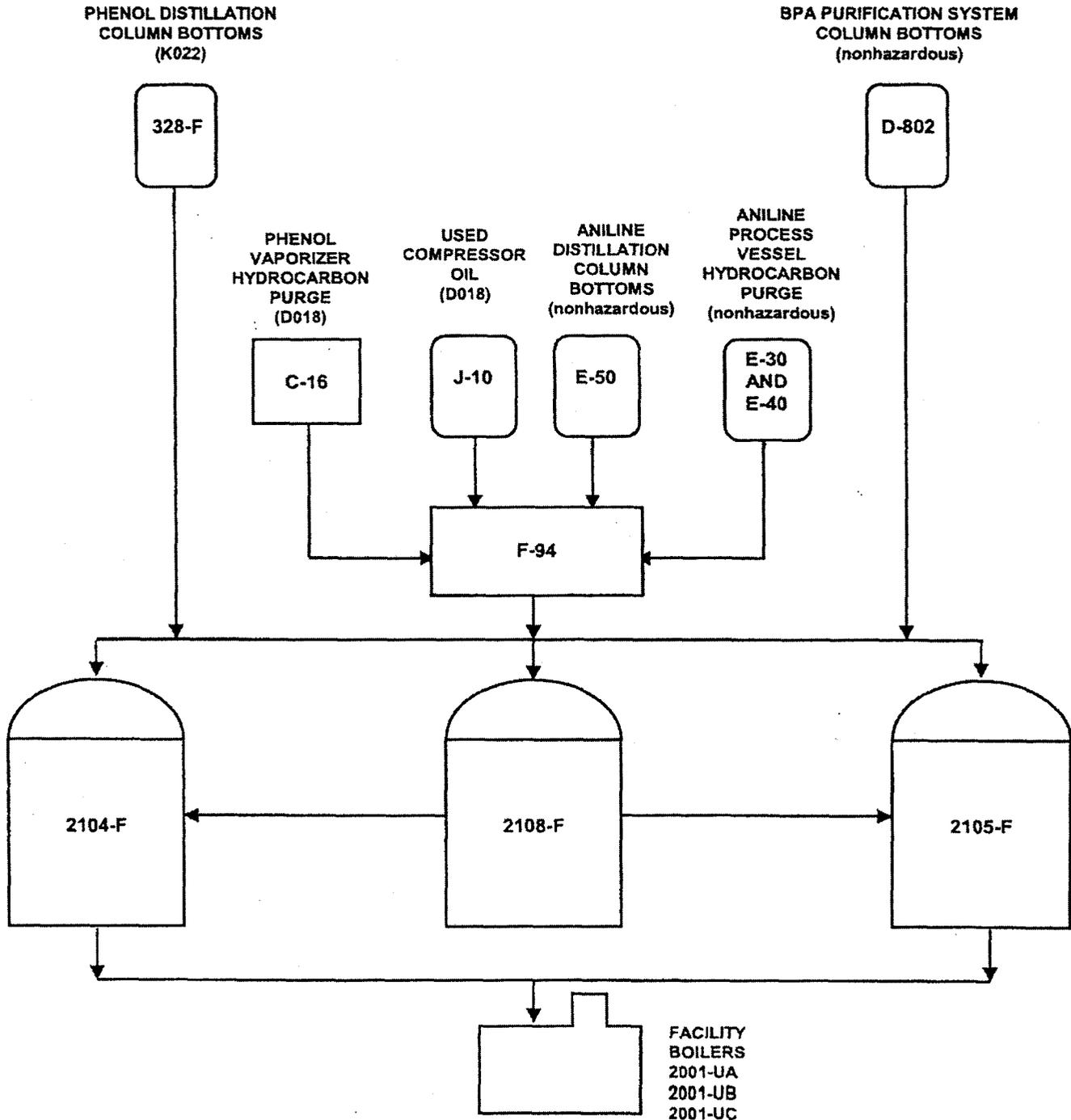
EPA. The Permittee must submit a Class 1 permit modification request to revise and/or incorporate operating conditions to the conditions described in Module I of this permit.

**I.4. Recordkeeping**

The Permittee must keep in the operating record of the facility all information and data which indicate that the operations of the boilers are in compliance with the limits established in this permit in accordance with OAC Rule 3745-266-102(E)(10).

**END OF CONDITIONS**

### ATTACHMENT A Heavy Hydrocarbon Flow Diagram



### ATTACHMENT B Light Hydrocarbon Flow Diagram

