OHIO ENVIRONMENTAL PROTECTION AGENCY

## *OHIO HAZARDOUS WASTE FACILITY INSTALLATION AND OPERATION PERMIT RENEWAL*

NFW

2-27-12

Permittee: Ross Incineration Services, Inc.

Mailing Address: Ross Incineration Services, Inc.
150 Innovation Drive
Elyria, OH 44035

Owner: Ross Incineration Services, Inc.
36790 Giles Road
Grafton, OH 44044

Ross Consolidated Corp.
36790 Giles Road
Grafton, OH 44044

Operator: Ross Incineration Services, Inc.
36790 Giles Road
Grafton, OH 44044

Location: Ross Incineration Services, Inc.
36790 Giles Road
Grafton, OH 44044

| | |
|---|---|
| U.S. EPA ID: | OHD 048 415 665 |
| Issue Date: | 9/ 30/ 03 |
| Effective Date: | 9/ 30/ 03 |
| Expiration Date: | 9/ 30/ 13 |

AUTHORIZED ACTIVITIES

In reference to the application of Ross Incineration Services, Inc. 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:

- **Incineration of hazardous waste;**
- **Storage of hazardous waste in containers;**
- **Storage of hazardous waste in tanks;**
- **Treatment of hazardous waste in tanks;**
- **Treatment of hazardous waste in a filter press;**
- **Closure;**
- **Post-Closure;**
- **Corrective Action**

# OHIO ENVIRONMENTAL PROTECTION AGENCY

## *OHIO HAZARDOUS WASTE FACILITY INSTALLATION AND OPERATION PERMIT RENEWAL*

| | |
|---|---|
| Permittee: | Ross Incineration Services, Inc. |
| Mailing Address: | Ross Incineration Services, Inc.<br>150 Innovation Drive<br>Elyria, OH 44035 |
| Owner: | Ross Incineration Services, Inc.<br>36790 Giles Road,<br>Grafton, OH 44044 |
| Operator: | Ross Incineration Services, Inc.<br>36790 Giles Road,<br>Grafton, OH 44044 |
| Location: | Ross Incineration Services, Inc.<br>36790 Giles Road,<br>Grafton, OH 44044 |

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|---|---|
| Ohio Permit No.: | 02-47-0295 |
| U.S. EPA ID: | OHD 048 415 665 |
| Issue Date: | 9/30/03 |
| Effective Date: | 9/30/03 |
| Expiration Date: | 9/30/08 |

AUTHORIZED ACTIVITIES

In reference to the application of Ross Incineration Services, Inc. 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:

- **Incineration of hazardous waste;**
- **Storage of hazardous waste in containers;**
- **Storage of hazardous waste in tanks;**
- **Treatment of hazardous waste in tanks;**
- **Treatment of hazardous waste in a filter press;**
- **Closure;**
- **Post-Closure;**
- **Corrective Action**

I certify this to be a true and accurate copy of the official document as filed by the Ohio Environmental Protection Agency

By Donya Jackson Date 9/30/03

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ENTERED DIRECTOR'S JOURNAL

PERMIT APPROVAL

Christopher Jones, Director
Ohio Environmental Protection Agency

This permit approval is based upon the record in this matter which is maintained at the offices of the Ohio Environmental Protection Agency. The Director has considered the application, accompanying information, inspection reports of the facility, a report regarding the facility's compliance or noncompliance with the terms and conditions of its permit and rules adopted by the Director under this chapter, and such other information as is relevant to the operation of the facility. The Director has determined that the facility under the existing permit has a history of compliance with ORC Chapter 3734, rules adopted under it, the existing permit, or orders entered to enforce such requirements that demonstrate sufficient reliability, expertise, and competency to operate the facility henceforth under this chapter, rules adopted under it, and the renewal permit.

Entered into the Journal of the Director this 30 day of September, 2003.

By Donya R. Jackson of the Ohio Environmental Protection Agency.

# 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 containers and tanks and to treat hazardous waste in tanks and a filter press and to treat hazardous waste by incineration 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 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 Part B permit application as submitted to Ohio EPA on March 16, 1998 and any subsequent amendment thereto, and last updated on June 27, 2002 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 the 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.

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

This permit may be modified, revoked, or renewed as specified by Ohio law. The filing of a request for a permit modification, revocation, 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.

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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 September 30, 2013.

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, revocation, modification, denial of a permit renewal application or other appropriate action.

A.6 Duty to Reapply and Permit Expiration
OAC Rules 3745-50-40(E), 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 conditions 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.

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.

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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 or revoking 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.

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 conditions of this permit; and

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(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. 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: Twentieth Edition, 1999; or an equivalent method as specified in the 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.

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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 3745-50-40(G), 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, 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.

(b) The record retention period may be extended by request of the Director at any time and is automatically extended during the course of any unresolved enforcement action regarding the facility.

(c) The Permittee must maintain, in accordance with the Ohio hazardous waste rules, records of all data used to complete the permit application and any amendments, supplements or modifications of such application and must retain a complete copy of the application for a period of at least five (5) years from the effective date of the permit.

(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 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

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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 Ohio EPA's Division of Emergency and Remedial Response within twenty-four 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:

(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 Ohio EPA's Division of Emergency and Remedial Response and the Division of Hazardous Waste Management

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Northeast 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 Condition 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.

(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 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 for 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.

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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 Ohio EPA.

A.27 Compliance Schedule - Documents

(a) The Permittee shall submit to Ohio EPA all documents specified in the following permit conditions within the time periods specified in those permit conditions:

1) Condition I(A).9(b) Evaluation of tanker direct feed containment system for highly volatile and flammable liquid wastes.

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2) Condition I(A).9(c) Extend paving at Tanker Direct Feed Site Number 3.

(b) The Permittee shall complete all activities identified in the permit conditions listed in Condition A.27(a) within the time periods specified in those permit conditions.

(c) Unless specified otherwise, the Permittee shall submit the documents subject to Condition A.27 (a) to:

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

and

Ohio Environmental Protection Agency
Northeast District Office
Division of Hazardous Waste Management
2110 E. Aurora Road
Twinsburg, Ohio 44087

A.28 Information to be Maintained at the Facility
OAC Rules 3745-50-51, 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, except for those portions of the operating record maintained at an off-site location pursuant to Condition B.22;

(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;

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(viii) Post-Closure Plan, after submittal by the Permittee and approved by Ohio EPA, for each unit that is closed as a hazardous waste disposal unit, including surface impoundment SWI 7, as required by OAC Rule 3745-55-18(A) and this permit;

(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.

(b) All changes or alterations to Permittee's hazardous waste facility or its operations that are inconsistent with or not authorized by this permit, including amendments, revisions and modifications to any plan required by this permit, shall be submitted to Ohio EPA and implemented in accordance with the permit modification requirements and procedures set forth in OAC Rule 3745-50-51.

(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, E.8, E.10 and 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); and 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) The Permittee shall submit the Waste Minimization Report to the Technical Assistance Section, Office of Pollution Prevention within one hundred eighty (180) days of journalization of this permit, and shall submit updates to this report biennially thereafter.

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A.30 Compliance Terminology Definitions

(a) For purposes of conducting compliance activities, the following definitions apply wherever these terms are used in the Permit and Application, except as otherwise noted:

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| "Daily": | Once each calendar day. |
| "Weekly": | Once each calendar week. A calendar week begins on Sunday and ends on Saturday. |
| "Monthly": | Once each calendar month. |
| "Quarterly": | Four times each calendar year; once between January 1 and March 31, once between April 1 and June 30, once between July 1 and September 30, and once between October 1 and December 31. |
| "Semi-Annually": | Twice each calendar year; once between January 1 and June 30, and once between July 1 and December 31. |
| "Annually": | Once each calendar year between January 1 and December 31. The event must not occur more than fifteen months from the previous year's event. |
| "Penta-Annually": | Once during the fifth ($5^{th}$) calendar year for a scheduled activity. |

*NOTE*: If RIS is in an operational shutdown mode during a scheduled compliance activity, such that the activity cannot be performed or is unwarranted, the applicable recordkeeping document (e.g., an inspection form) will denote this.

## MODULE B - GENERAL FACILITY CONDITIONS

### 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 operate and maintain the facility in accordance with fire, explosion, or release prevention procedures, practices and design specifications provided in Sections D, F and G of the Part B permit application.

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

(a) Hazardous Waste from Foreign Sources

The Permittee shall notify the Director in writing at least four weeks in advance of the date the Permittee expects to receive hazardous waste from a foreign source, as required by OAC Rule 3745-54-12(A). Notice of subsequent shipments of the same waste from the same foreign source is not required.

(b) Hazardous Waste from Off-Site Sources

When the Permittee is to receive hazardous waste from an off-site source (except where the Permittee is also the generator), he must inform the generator in writing that he has the appropriate Permits, and will accept the waste the generator is shipping. The Permittee must keep a copy of this written notice as part of the operating record.

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

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

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(b) Supplemental Analyses, Sampling and Analysis of Treatment Residues

Treatment residues generated by the Permittee shall be sampled and analyzed as follows:

| Waste Stream | Frequency | Standards defining constituents to be analyzed |
|---|---|---|
| Incinerator Ash | Quarterly | Universal Treatment Standards for applicable constituents in OAC Rule 3745-270-48 (concentrations in extract of the waste or in the waste, whichever is applicable). Paint Filter Test. |
| Incinerator Ash | Monthly | Abbreviated Organic Constituents (as defined in Section C of the Part B permit application) |
| Scrubber Water | Quarterly | Universal Treatment Standards for applicable constituents in OAC Rule 3745-270-48 (concentrations in extract of the waste or in the waste, whichever is applicable). |
| Filter Cake | Quarterly | Universal Treatment Standards for applicable constituents in OAC Rule 3745-270-48 (concentrations in extract of the waste or in the waste, whichever is applicable). Paint Filter Test. |

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 (C) and Section F of the Part B permit application.

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

The Permittee shall follow the inspection schedule set forth in Section F of the 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 the elements set forth in Section H of the 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

The Permittee shall comply with the requirements of OAC Rule 3745-54-17 and shall follow the procedures, practices and design specifications for handling ignitable, reactive and incompatible wastes set forth in Sections C, D and F of the Part B permit application.

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

The Permittee shall operate and maintain the facility to prevent washout of any hazardous waste by a 100-year flood, as required by OAC Rule 3745-54-18(B)(1) and as specified in the attached plans and specifications in Section B of the Part B permit application. To prevent washout and overtopping during a flood, facility protective dikes shall be inspected and maintained in good condition and at the elevations indicated in Section B of the Part B permit application.

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

(a) 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 contingency plan contained in Section G of the Part B permit application.

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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 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, Sections D, F and G of the Part B permit application and the terms and conditions of this permit.

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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, Sections D and F of the Part B permit application and the terms and conditions of this permit.

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 G of the Part B permit application;

(ii) make arrangements with Ohio EPA emergency response teams, emergency response contractors, and equipment suppliers; 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, potential associated hazards of emergency response 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 contingency plan and follow the emergency procedures described in OAC Rule 3745-54-56,

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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.

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 fire involving hazardous waste, with the following exceptions:
- i) a fire located in or on an incinerator waste feed mechanism or the incinerator feed structure if the fire can be controlled with hand-held fire extinguishers; or
- ii) a fire involving 55 gallons or less of hazardous waste or one pound or less of untreated acute hazardous waste (i.e., P-coded waste), that can be extinguished with a hand-held extinguisher and does not require the fire department to extinguish; or
- iii) a fire in the deslagger or its associated equipment that does not require the emergency response team or the fire department to extinguish.

(b) Any explosion, as defined in Table G-2 in Section G of the permit application, involving hazardous waste, except that implementation is not required for:
- i) an explosion with the incineration system that does not result in a release of fugitive emissions, hazardous waste or hazardous waste constituents to the environment; or
- ii) an explosion in the deslagger or associated equipment that does not result in a release of fugitive emissions, hazardous waste or hazardous waste constituents to the environment.

(c) 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, except that implementation is not required for:
- i) an uncontrolled hazardous waste reaction that is contained by an air emissions control system; or
- ii) an uncontrolled hazardous waste reaction that does not require the emergency response team or outside assistance to contain.

(d) 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 contamination.

(e) 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.

(f) Occurrence of any event listed in Sections 3 or 4 of the Contingency Plan Implementation Criteria in Table G-2 in Section G of the permit application.

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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 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 contingency plan 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 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 of any significant changes to the plan which will impact their ability to respond to an emergency, within fifteen (15) days of the effective date of any amendments of, revisions to, or modifications to the contingency plan. For all other changes, notification in writing must be made annually.

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(c) The Permittee shall, in accordance with OAC Rule 3745-54-53, submit a copy of the contingency plan to the Ohio Environmental Protection Agency's Division of Emergency and Remedial Response.

~~(d) Within 90 150 days of the effective date of this permit, the Permittee shall submit an acknowledgment to Ohio EPA that the Contingency Plan in Section G of the Part B permit application has been reviewed with the local police departments, fire departments, hospitals and local emergency response teams identified in the Contingency Plan.~~

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 regarding emergency procedures set forth in OAC Rule 3745-54-56, Section G of the Part B permit application and the conditions of this permit.

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

All records shall be furnished, upon request, to Ohio EPA, and those records shall be retained by the Permittee in accordance with OAC Rule 3745-54-74.

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

(a) 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) The Permittee is authorized to maintain portions of the operating record required by OAC Rule 3745-54-73 that are more than three years old at an off-site location with the following conditions:

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(I) The off-site location must be listed in the approved Part B application. The listing must include the address of the records storage site and a description of which portion of the record is maintained at that site. Changes and/or additions to storage site locations detailed in the Part B application must be made through the permit modification process described in OAC Rule 3745-50-51.

(ii) All portions of the operating record maintained at off-site locations must be available for Ohio EPA review at the Permittee's facility within two (2) business days of the request, unless this is clearly not reasonable, in which case the Permittee will establish the most expeditious schedule practicable and immediately notify Ohio EPA of the anticipated schedule.

(c) The Permittee is authorized to maintain original copies of waste analysis information collected through Waste Product Survey (WPS) development and update activities (i.e., WPS sheets, attachments and the waste analyses used to develop WPS sheets) and initial notices to generators, as specified in paragraph (B) of OAC rule 3745-54-12, at the Ross Environmental Services Business Center, provided that

(I) All WPS Sheets are accessible at the facility through an electronic data retrieval system from which paper copies can be printed;

(ii) Facsimile or original copies of all waste analysis data used to develop WPS sheets are made available to Ohio EPA within one business day; and

(iii) All portions of the operating records maintained at the Ross Environmental Services Business Center are made available upon request for inspection by Ohio EPA.

(d) The Permittee is authorized to collect, store and/or manage data required by its Permit or Part B application in hard or electronic copy. Electronic data will also be available within a reasonable time in hard copy upon agency request.

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

(a) 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.

(b) Manifest discrepancy report. If a significant discrepancy in a manifest is discovered, the Permittee must attempt to reconcile the discrepancy. If not resolved with fifteen (15) days after receiving the waste, the Permittee must submit a report, including a copy of the manifest, to the Director in accordance with OAC Rule 3745-54-72.

(c) Unmanifested waste report. This report must be submitted to the Director within fifteen (15) days of receipt of unmanifested waste, which waste is not excluded from the manifest requirements by OAC Rule 3745-51-05, and include the information required under OAC Rule 3745-54-76.

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 closure plan in Section I of the Part B permit application in such a manner as to achieve compliance with OAC Rule 3745-55-11.

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 Part B permit application, in accordance with OAC Rules 3745-55-10 through 3745-55-20.

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Additionally, the Permittee has three surface impoundments that were in existence at the time the implementing rules for RCRA were enacted and for which the Permittee never sought full permitted status. As such, these units were subject to the interim standards closure requirements of OAC Chapter 3745-66 but, for various reasons, have not yet achieved final closure. The purpose of this condition is to put the Permittee on schedule to complete closure of these units.

These impoundments and their closure status are outlined in the following table:

| Surface Impoundment Name | Type of Waste Managed/Contained in the Surface Impoundment | Status of Closure |
|---|---|---|
| Surface Impoundment 2 or SWI 2; Surface Impoundment 6 or SWI 6; and Surface Impoundment 7 or SWI 7 | Scrubber water and scrubber water sludge composed primarily of incinerator ash | A Closure Plan to close SWI 6 and SWI 7 with waste in-place and consolidate the waste and unit liner from SWI 2 in SWI 6 was received by Ohio EPA on 9/7/2000. On 11/20/2000, Ohio EPA issued a Notice of Deficiency (NOD) on this Closure Plan. The NOD response letter dated 1/12/2001 requested additional meetings with Ohio EPA and proposed a sequential response to the NOD with Ohio EPA approval of intermediate plan elements. A Treatability Study and Analysis Plan was submitted to Ohio EPA on 12/6/2001. On 1/23/2002, Ohio EPA issued a NOD on the plan. Ross responded by letter dated 2/22/2002. In response, Ohio EPA issued a NOD on 5/29/2002. Ross responded by letter dated 7/5/2002. Following a meeting, Ross submitted a revised Treatability Study and Analysis Plan dated 8/22/2002. Ohio EPA reviewed this submittal and by letter dated October 2, 2002 stated that Ohio EPA had no further comment on the Treatability Study and expected RIS to proceed with implementation. |

The Permittee shall complete closure of surface impoundments SWI-2, 6 and 7 in accordance with the approved closure plan revisions located in Section I of the application as submitted via a Class 2 Permit Modification Request dated March 1, 2004 and as amended by supplemental responses dated April 22, 2004 and May 12, 2004. The approved closure plan permits the Permittee to incinerate tarps and other debris from this closure that are contaminated with closure wastes carrying hazardous waste code F027. The approved closure plan does not include proposed changes to the Permittee's financial assurance obligations as stated in Table I-3 on proposed revision pages I-39 through I-46. Upon completion of Ohio EPA's review of the proposed changes to the Permittee's financial assurance obligations, proposed revisions to the Permittee's financial assurance obligations shall be resubmitted to Ohio EPA in a Class 1A permit modification request.

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

Should a change in the facility closure plan become necessary, the Permittee shall amend the 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 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

Within ninety (90) days 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. 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) days after receiving the final volume of hazardous waste 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 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 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 Northeast District Office within 5 working days prior to all rinseate and soil sampling.

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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

The Permittee must submit a survey plat to the Director and the local zoning authority no later than the submission of certification of closure of each unit that is closed as a hazardous waste disposal unit, in accordance with OAC Rule 3745-55-16.

B.35 General Post-Closure Requirements
OAC Rules 3745-55-17, 3745-55-18, 3745-55-19, 3745-55-20

(a) Post-Closure Care Period

The Permittee must begin post-closure care for surface impoundment SWI-7 upon completion of closure of the unit and continue for 30 years after that date. Post-closure care shall be in accordance with OAC Rule 3745-55-17 and the Post-Closure Plan in Section I-4 of the application (submitted as a Class 2 Permit Modification Request dated March 1, 2004 and amended by a supplemental response dated June 21, 2004). The approved Post-Closure Plan does not include the phrase "according to a performance based system and" on Page E-1 of the application. Post closure ground water monitoring parameters shall be those specified in Condition J.3(a).

(b) Post-Closure Security

The Permittee must maintain security at the facility during the post-closure care period in accordance with

the Post-Closure Plan as approved by Ohio EPA and OAC Rule 3745-55-17(B).

(c) Amendment to Post-Closure Plan

Subsequent to approval by Ohio EPA of a Post-Closure Plan for surface impoundment SWI 7, the Permittee must amend the Post-Closure Plan whenever necessary in accordance with OAC Rule 3745-55-18(D).

(d) Post-Closure Notices

(I) No later than 60 days after certification of closure of each hazardous waste disposal unit, the Permittee must submit to the director and the local zoning authority records of the type, location, and quantity of hazardous waste disposed of within each cell or disposal unit, in accordance with OAC Rule 3745-55-19(A).

(ii) Within 60 days of certification of closure of the last unit that is closed as a hazardous waste disposal unit the Permittee must do the following:

(1) Record a notation on the deed to the facility property which contains the information required by OAC Rule 3745-55-19(B)(1).

(2) Submit to the Director a certification that the Permittee has recorded the notation and submit a copy of the document in which the Permittee placed the notation.

(3) The Permittee must request and obtain a permit modification prior to post-closure removal of hazardous wastes, hazardous waste residues, liners, or contaminated soils, in accordance with OAC Rule 3745-55-19(C).

(e) Certification of Completion of Post-Closure Care

No later than sixty days after completion of the established post-closure care period for each hazardous waste disposal unit, the Permittee must certify that the post-closure care period was performed in accordance with the specifications in the Post-Closure Plan, as required by OAC Rule 3745-55-20.

B.36 Cost Estimate for Facility Closure and Post-Closure
OAC Rules 3745-55-42 and 3745-55-44

(a) The Permittee's most recent closure cost and post-closure cost estimates, 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) are specified in Section I of the Part B permit application.

(b) The Permittee must adjust the closure and post-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 3745-55-45 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, and the post-closure cost estimate whenever there is a change in the facility's Post-Closure Plan that increases the cost of post-closure, as required by OAC Rule 3745-55-42(C) and 3745-55-44(C).

By April 15, 2005, the Permittee shall submit a revised post-closure cost estimate based on sampling and analysis for all parameters listed in Condition J.3(a) at the frequency specified in Condition J.7(c).

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(d) The Permittee must submit to the Ohio EPA and keep at the facility the latest closure cost estimate and post-closure cost estimate as required by OAC Rule 3745-55-42(D) and (E) and 3745-55-44(D) and (E).

B.37 Financial Assurance for Facility Closure and Post-Closure

The Permittee must maintain continuous compliance with OAC Rule 3745-55-43 and maintain continuous compliance with OAC Rule 55-45 or 55-46. The Permittee also must 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 legal defense costs.

The Permittee also shall demonstrate compliance with OAC Rule 3745-55-47(B) by maintaining liability coverage for non-sudden accidental occurrences in the amount of at least $3 million per occurrence, with an annual aggregate of at least $6 million, exclusive of 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 and as set forth in Section C of the Part B permit application.

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## MODULE C - CONTAINERS STORAGE & MANAGEMENT

### C. MODULE HIGHLIGHTS

Containers of hazardous waste are stored in the 1) Bulk Storage Areas (BSA No. 1 and No. 2), 2) Oxidizer Storage Building (OSB), and (3) Container Storage Facility (CSF).

BSA No. 1 is outdoors on concrete containment with approximate dimensions of 51' X 99' and used for storage of hazardous waste without free liquids in roll-offs and other containers. It can store the equivalent of 16 twenty cubic yard roll-offs (i.e., 64,632 gallons).

BSA No. 2 is outdoors on concrete containment with approximate dimensions of 60' X 125' and used for storage of hazardous waste without free liquids in roll-offs and other containers. It can store the equivalent of 20 twenty cubic yard roll-offs (i.e., 80,790 gallons).

The OSB is a 21' X 80' pre-engineered steel building used to store containers of oxidizer and organic peroxide waste, in addition to the permitted oxidizer waste storage in the CSF. The OSB is designed to hold 144 fifty-five gallon drums (i.e., 7,920 gallons).

The Container Storage Facility is an open-sided covered building with dimensions of approximately 257 feet by 60 feet that is used for storage of containers of wastes from off-site generators and certain on-site generated wastes. Containers stored in the Container Storage Facility include various types of steel, plastic and composite drums, pails, buckets and boxes as well as bulk containers such as roll-offs and truck tankers. Containers with and without free liquids may be stored in the Container Storage Facility. The Container Storage Facility has adequate secondary containment.

Typical hazardous waste types received at the facility in containers include: halogenated and non-halogenated spent solvents, paint wastes, off-specification commercial chemical products and spill residues. Waste generated at the facility and stored in containers consists primarily of treatment residuals from the incineration process.

The Container Storage Facility includes 18 separate storage bays. Containers accepted from off-site generators for storage in the Container Storage Facility must meet the US-DOT specifications found in 49 CFR 178. Non-bulk containers such as drums, pails, buckets and boxes are stored in racks. Bulk containers, such as roll-offs and truck tankers, are stored in the tanker bays in the Container Storage Facility. Drums, pails, buckets and boxes, subject to waste type and quantity restrictions, may also be stored in the tanker bays in the Container Storage Facility.

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Containers of hazardous waste may be accepted for storage and re-shipment to other hazardous waste treatment, storage and disposal facilities. The wastes in re-shipped containers typically carry waste codes that the facility is permitted to store, but not to incinerate.

Containers of hazardous waste may be repackaged at designated locations within the facility into alternate containers to facilitate management of the waste. Liquid wastes received in tanker trucks may be transferred to tankers operated by the facility (i.e., yard tankers) for direct feeding from a tanker into the incinerator.

C.1 Process Capacity/Annual Quantity Limitation
OAC Rules 3745-50-43(A)(7)

(a) The Permittee shall not store more than 610,373 gallons of containerized waste at any given time in the permitted container areas: Container Storage Facility (CSF), Bulk Storage Areas (BSA No. 1 and No. 2), and Oxidizer Storage Building (OSB). The hazardous waste container storage volume in each of the four permitted container storage units will at no time exceed the unit's respective design storage volume. The Permittee shall store hazardous waste in the types of containers (size and type) described in Section D of the Part B permit application. The Permittee may not store containers for more than one year.

(b) The Permittee shall at all times have access to its current container storage volume via its computer tracking system and be able to demonstrate compliance with its permitted container storage capacity limitation.

(c) Permit Conditions C.1(a) and C.2 shall not apply to the Permittee's activities as a generator accumulating hazardous waste on-site in compliance with OAC Rule 3745-52-34(A).

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However, when accumulating waste within the permitted container storage area, in accordance with OAC Rule 3745-52-34(A), the Permittee shall not, for the total amount of hazardous waste stored and accumulated, exceed the maximum container storage inventory established under this Condition.

(d) The Permittee shall not treat wastes in containers, except by processing in the incineration unit.

(e) The Permittee may receive and store wastes in containers without intending to treat said wastes. The Permittee may ship these wastes to another permitted facility for treatment, storage or disposal. The Permittee will handle said wastes in accordance with the practices and procedures in Sections C and D of the Part B permit application.

C.2 Waste Identification
ORC Sections 3734.02(F) and 3734.05(H) and OAC Rule 3745-50-43

The Permittee shall store in containers only the hazardous waste codes specified with process code SO1 in Section A of the Part B permit application. The Permittee is prohibited from storing wastes in containers inconsistent with the restrictions and prohibitions in Table C1-1 of Section C of the Part B permit application.

C.3 Condition of Containers
OAC Rule 3745-55-71

If a container holding hazardous waste is not in good condition (e.g., severe rusting, apparent structural defects) or if it begins to leak, the Permittee shall transfer the hazardous waste from such container to a container that is in good condition or otherwise manage the waste in compliance with Sections D and F of the Part B permit application, the conditions of this Permit or the hazardous waste facility chapters of the OAC.

C.4 Compatibility of Waste with Containers
OAC Rule 3745-55-72

The Permittee shall use containers that are compatible with the hazardous waste to be stored.

C.5 Management of Containers
OAC Rule 3745-55-73

(a) All container storage shall be conducted within the container storage units as described in Condition C.1. of this permit and Section D of the Part B permit application.

(b) The Permittee shall keep all containers closed during storage, except when it is necessary to add or remove waste, and shall not open, handle, or store containers in a manner which may rupture the container or cause it to leak.

(c) Lab-pack wastes received at the facility shall be handled in compliance with applicable storage requirements and Sections C and D of the Part B permit application.

(d) The Permittee shall conduct the following container management activities in accordance with the procedures and practices specified in Section D of the Part B permit application: container storage and receiving, repackaging of wastes, transportation of wastes through the facility and special handling of containers. Repackaging of wastes may only be conducted in the following areas:

(i) All concrete areas surrounding the incinerator;

(ii) Concrete pad west of the old process dock;

(iii) Concrete pads east or west of the process dock;

(iv) Concrete pad at the staging areas in the Container Storage Facility;

(i) The concrete loading/unloading area by the closed loop scrubber water system;

(ii) The concrete loading / unloading area by and in the Caustic Building;

(vii) Repackaging room;

(viii) Within the Process Dock Building.

C.6 Containment Systems
OAC Rule 3745-55-75 and ORC Section 3734.05(H)

(a) The Permittee shall maintain the containment systems in accordance with the plans and specifications contained in Section D of the Part B permit application.

(b) The Permittee shall maintain the containment systems as described in the Part B permit application, designed with sufficient capacity to contain ten percent of the total volume of the containers or the volume of the largest container, whichever is greater. The containment systems shall be free of cracks and gaps and sufficiently impervious to contain leaks and spills and accumulated precipitation until the collected material is detected and removed.

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(c) Spilled or leaked waste and accumulated precipitation shall be removed from the sump or collection areas in a timely manner and in accordance with the procedures and practices specified in Section D of the Part B permit application.

(d) No hazardous wastes with free liquids shall be stored in the Bulk Storage Areas (BSA No. 1 and No. 2).

C.7 Reserved

C.8 Inspection Schedules and Procedures
OAC Rules 3745-54-15 and 3745-54-73

As required by OAC Rule 3745-54-15, the Permittee shall inspect the container storage areas in accordance with the inspection schedule contained in Section F of the Part B permit application to detect leaking containers and deterioration of containers and the containment systems caused by corrosion or other factors. The Permittee shall note the results of these inspections in the inspection log along with any remedial action taken in accordance with the procedures contained in Section F of the Part B permit application. Each container in storage for six months or more shall be inspected and stored in accordance with Section F-2b(1) of the Part B permit application and the inspection results shall be recorded in the facility operating record.

C.9 Recordkeeping
OAC Rule 3745-54-73

The Permittee shall comply with all recordkeeping requirements of OAC Rule 3745-54-73 as part of the facility operating record and any other documentation showing compliance with the requirements of permit Condition C.13. and OAC Rules 3745-54-17(B) and 3745-55-77.

C.10 Special Container Provisions for Ignitable or Reactive Waste
OAC Rules 3745-54-17 and 3745-55-76

(a) The Permittee shall not locate containers holding ignitable or reactive waste within 15 meters (50 feet) of the facility's property line.

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(b) The Permittee shall take precautions to prevent accidental ignition or reaction of ignitable or reactive waste and shall follow the storage procedures and practices specified in Sections C, D and F of the Part B permit application.

C.11 Special Container Provisions for Incompatible Waste
OAC Rules 3745-55-77 and 3745-54-17

(a) The Permittee shall not store incompatible waste except in accordance with OAC Rules 3745-54-17(B) and 3745-55-77.

(b) The Permittee shall not place hazardous waste in an unwashed container that previously held an incompatible waste or material.

(c) The Permittee shall separate containers of incompatible wastes from each other and from other incompatible materials in accordance with the procedures and practices specified in Sections C, D and F of the Part B permit application.

(d) Only oxidizer and organic peroxide wastes shall be stored in the Oxidizer Storage Building. Such storage shall be in accordance with the procedures and practices specified in Section D of the Part B permit application.

C.12 Reserved.

C.13 Closure and Post-Closure
OAC Rules 3745-55-10, 3745-55-11, 3745-55-78

(a) At closure of the container storage areas, the Permittee shall remove all hazardous waste and hazardous waste residues from the containment systems, in accordance with the procedures in the Closure Plan set forth in Section I of the Part B permit application.

(b) If the Permittee demonstrates that all contaminated soils cannot be practically removed or decontaminated in accordance with the Closure Plan in Section I of the Part B permit application, the Permittee shall close the unit and perform post-closure care following a plan approved by the Director of Ohio EPA.

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## MODULE D - TANK STORAGE, TREATMENT AND MANAGEMENT

### D. MODULE HIGHLIGHTS

A total of 49 hazardous waste tanks are included in this permit. There are 45 storage tanks and 4 tanks that are both storage and treatment tanks. All tanks are above-ground tanks. All of the tanks have been provided with a secondary containment system constructed of a reinforced concrete liner external to the tanks and a reinforced concrete retaining wall around the perimeter. All containment systems have an impermeable coating to make the secondary containment system impervious to the waste stored. The secondary containment system for all tanks is designed to contain greater than 100 percent of the capacity of the largest tank within its boundary plus precipitation from a 25 year 24 hour rainfall.

Wastes managed in most tanks are received from off-site generators, but several tanks are dedicated to on-site generated wastes. Most of the off-site generated wastes managed in these tanks are transferred from tank trucks, but some wastes are transferred from containers into tank storage. Wastes managed in these tanks fall into one or more of the following categories: high or low BTU wastes, halogenated wastes, flammable and/or ignitable wastes, fly ash sludge, and/or scrubber water. A system is in place to evaluate wastes for potential incompatibilities prior to placing wastes in these tanks.

One treatment tank treats residuals from the incineration process including fly ash, sludges and scrubber water. Three treatment tanks are part of the vacuum pump system for transferring wastes, including high and/or low BTU wastes, halogenated, flammable and/or ignitable wastes, from drums, tank trucks and other containers to the tank storage system.

All tanks are equipped with appropriate overfill prevention and, where required, over-pressure systems.

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 1,125,040 gallons of hazardous waste in 49 tanks and treat a total volume of 122,000 gallons of hazardous waste per day in 4 tanks, subject to the terms of this Permit and as follows:

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| Storage Tanks Tank No. | Capacity (Gallons) | Dimensions of Tank | Secondary Containment Required | Description of Hazardous Waste | Month/Year of Construction |
|---|---|---|---|---|---|
| **Tank Farm I** Tanks 23-36 | 9,920 each | 10 ft. (diam) x 22.5 ft. | Yes - in place | High BTU halogenated, flammable and/or ignitable wastes | June, 1982 (Existing tanks for OAC Chapter 3745-55) |
| **Tank Farm II** Tanks 37-50 | 9,920 each | 10 ft. (diam) x 22.5 ft. | Yes - in place | High or Low BTU halogenated, flammable and/or ignitable wastes | December, 1987 (New tanks for OAC Chapter 3745-55) |
| **Tank Farm III** Tanks 51-64 | 9,920 each | 10 ft. (diam) x 22.5 ft. | Yes - in place | Low BTU halogenated, flammable and/or ignitable wastes | December, 1987 (New tanks for OAC Chapter 3745-55) |
| Tanks 67 and 68 | 3,627 each | 6 ft. 4 in. (diam) x 17 ft. 0.4 in. | Yes - in place | Fly ash sludge and scrubber water prior to filter pressing | January, 2009 (New tank for OAC Chapter 3745-55) |
| Tank 75 | 617,000 | 50 ft. (diam) x 42 ft. | Yes - in place | Fly ash sludge and scrubber water and/or sludge | September, 1988 (New tank for OAC Chapter 3745-55) |

| Treatment and Storage Tanks Tank No. | Capacity (Gallons) | Dimensions of Tank | Secondary Containment Required | Description of Hazardous Waste | Month/Year of Construction. |
|---|---|---|---|---|---|
| Tank 70 Hazardous waste storage and treatment tank-Condensation Tank | 9,920 gallons for storage; (Combined treatment capacity of tanks 70, 73 and 74 is 72,000 gallons per day.) | 10 ft. (diam) x 22.5 ft. | Yes - in place | Condensation vapors from tanks 73 & 74, high or low BTU halogenated, flammable and/or ignitable wastes | December, 1987 (New tank for OAC Chapter 3745-55) |
| Tank 73 & 74 Hazardous waste storage and treatment tanks-Vacuum Tanks | 7,500 each gallons for storage; (Combined treatment capacity of tanks 70, 73 and 74 is 72,000 gallons per day.) | 10 ft. (diam) x 10.5 ft. | Yes - in place | High and/or low BTU wastes, halogenated, flammable and/or ignitable wastes | December, 1987 (New tanks for OAC Chapter 3745-55) |
| Tank 79 Hazardous waste storage and treatment tank-Surge tank | 56,402 gallons for storage; (Treatment capacity is 50,000 gallons per day.) | 20 ft. (diam) x 24 ft. | Yes - in place | Fly ash sludge, scrubber water, and/or sludge generated on-site for on-site treatment only | 2010 (New tank for OAC Chapter 3745-55) |

| Treatment and Storage Tanks Tank No. | Capacity (Gallons) | Dimensions of Tank | Secondary Containment Required | Description of Hazardous Waste | Month/Year of Construction |
|---|---|---|---|---|---|
| Tank 73 & 74 Hazardous waste storage and treatment tanks-Vacuum Tanks | 7,500 each gallons for storage; (Combined treatment capacity of tanks 70, 73 and 74 is 72,000 gallons per day.) | 10 ft. (diam) x 10.5 ft. | Yes - in place | High and/or low BTU wastes, halogenated, flammable and/or ignitable wastes | December, 1987 (New tanks for OAC Chapter 3745-55) |
| Tank 79 Hazardous waste storage and treatment tank- Surge tank | 56,402 gallons for storage; (Treatment capacity is 50,000 gallons per day.) | 20 ft. (diam) x 24 ft. | Yes - in place | Fly ash sludge, scrubber water, and/or sludge generated on-site for on-site treatment only | 1988 (New tank for OAC Chapter 3745-55) |

(b) The Permittee shall store in tanks only the hazardous waste codes specified in Section A of the Part B application with process code SO2. The Permittee shall treat in tanks only the hazardous waste codes specified in Section A of the Part B permit application with process code TO1.

(c) The Permittee is prohibited from storing or treating in tanks hazardous waste that is not identified in this permit condition. The Permittee is prohibited from any storage or treatment of wastes in tanks inconsistent with the restrictions and prohibitions in Table C1-1 of Section C of the Part B permit application. The Permittee shall not store characteristically corrosive wastes or wastes with a corrosion rate greater than 50 mils per year in tanks.

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

(a) The Permittee shall construct any future new tank systems in accordance with Section D-2c of the Part B permit application.

(b) Prior to the operation of any newly constructed tank system, the Permittee shall submit to Ohio EPA the certification of installation of the tank system 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.

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

(a) New Tank Systems

The Permittee shall operate the secondary containment system in accordance with the requirements of OAC Rule 3745-55-93(B) through (F), the detailed design plans and descriptions contained in the Part B permit application and Sections D and F of the Part B permit application.

New tanks at the facility are Tanks 37-64, 67, 68, 70, 73, 74, 75 and 79.

(b) Existing Tank Systems with Secondary Containment

The Permittee shall operate the secondary containment system in accordance with the requirements of OAC Rule 3745-55-93(B) through (F), the detailed design plans and descriptions contained in the Part B permit application and Sections D and F of the Part B application.

Existing tanks at the facility are Tanks 23-36.

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.

(c) The Permittee shall operate and maintain all tank systems listed in Condition D.1 in accordance with the procedures, practices and design conditions identified in Section D of the Part B permit application.

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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 in Section F of the Part B permit application 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; and

(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 with permit Condition D.5 in the operating record of the facility.

(e) The Permittee shall monitor and test the tank systems in accordance with the Tank Corrosion Inspection Plan in Appendix D-1 of Section D of the Part B permit application.

(f) The Permittee shall immediately remove from service any tank with a wall thickness, as determining from UT thickness testing or internal inspection, that is less than the design minimum wall thickness for either the top, shell or bottom of the tank. The applicable design minimum wall thickness for the tank corrosion monitoring program is: the value specified in Tables D2-2 through D2-8 in the application for the minimum design top thickness, minimum design shell thickness and minimum design bottom thickness,

respectively; or, for Tanks 23-36, the value of 0.25 inches for the top of tanks with agitators, 0.123 inches for the top of tanks without agitators, 0.137 inches for the tank bottom, 0.119 inches for the upper portion of the tank shell, and 0.19 inches for the tank shell bottom portion at the leg attachment.

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) If the release was from the tank system, the owner/operator must, within twenty-four hours after detection of the leak, or, if the

owner/operator demonstrates that it is not possible, at the earliest practicable time, remove as much of the waste as is necessary to prevent further release of hazardous waste to the environment and to allow inspection and repair of the tank system to be performed.

If the material released was to a secondary containment system, all released materials must be removed within twenty-four hours or in as timely a manner as possible to prevent harm to human health and the environment.

(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.

(b) 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 Closure Plan if there has been a leak or spill from the tank system, from a secondary containment system or if a system becomes unfit for continued use.

(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 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.

(iv) 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.

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(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: installation of an internal liner, repair of a ruptured tank or repair or replacement of a secondary containment vault.

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 one pound or less of hazardous waste, that is immediately contained and cleaned-up need not be reported. 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:

(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.

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(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.

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 in Section I of the Part B permit application.

(b) If during closure of any tank system, the Permittee concludes that not all contaminated soils can be practically removed or decontaminated in accordance with the Closure Plan, the Permittee shall submit a written permit modification request which includes a demonstration of why removal or decontamination is not practical and a Post-Closure Plan for such tank system.

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.

(c) The Permittee shall follow the fire and explosion prevention procedures and practices in Section D of the Part B permit application when storing or placing ignitable or reactive waste in a tank system.

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

(a) The Permittee shall not simultaneously place incompatible wastes, or incompatible wastes and materials, in the same tank system. The tanks will be emptied and thoroughly rinsed and visually inspected before wastes that are incompatible with the previous contents of the tanks are placed in them. The Permittee shall document compliance with the decontamination requirements 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.

(c) The Permittee shall follow the procedures and practices to identify incompatible wastes and to prevent simultaneously placing incompatible wastes in the same tank that are identified in Sections C and D of the Part B permit application.

D.11 Compliance Schedule

[This Section intentionally left blank.] ~~The Permittee shall use the inspection criteria listed in Section D of the Part B permit application to visually evaluate, prior to transfer, whether water accumulated in the tank farm containment trench is contaminated with hazardous waste. Within 90 days of the effective date of this permit, the Permittee shall submit to Ohio EPA for review, specific procedures derived from the inspection criteria listed in Section D of the Part B permit application for conducting these inspections, including documentation of results, identification of the person conducting the inspection and the date of the inspection.~~

## MODULE E - CORRECTIVE ACTION REQUIREMENTS

E.1 Corrective Action at the Facility
OAC Rules 3745-50-10 and 3745-55-011

In accordance with OAC Rule 3745-50-10 "waste management unit" means any discernible unit at which solid waste, hazardous waste, infectious waste (as those terms are defined in ORC Chapter 3734), construction and demolition debris (as defined in ORC Chapter 3714) industrial waste, or other waste (as those terms are defined in ORC Chapter 6111), has 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. 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 the Ohio Corrective Action Plan (OCAP).

The Permittee must institute Corrective Action as necessary to protect human health and the environment for all releases of hazardous wastes or hazardous constituents 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 3745-55-011

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.

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E.3 Identification of WMUs
OAC Rules 3745-50-44(d) & 3745-55-011

USEPA prepared an RFA (RCRA Facility Assessment) report for the Permittee's facility dated July 21, 1987. The RFA identified potential releases and potential release pathways including groundwater, soils, surface water and air. Based on the results of the RFA, the Permittee was required to implement an RFI. Consequently a Corrective Action Program requirement was added to Section VI of the U.S. EPA RCRA Part B Permit issued to the Permittee on September 8, 1988.

The Permittee began implementation of the RFI by preparing the Facility Background Report that was submitted to U.S. EPA on May 3, 1989. The Facility Background Report provided an historical site profile and environmental setting of the facility. The historical site profile provided a description of ownership, facility operation, a site description, a summary of solid waste management units (SWMU) and the volume and types of wastes handled, and a chronology of the waste management practices that have been conducted throughout the life of the facility. The environmental setting provided an initial description of the hydrogeological, geological and meteorological characteristics of the site.

The Facility Background Report indicates that various waste treatment and waste management practices have occurred at the facility since it began operating in 1949. Consequently, different sections of the site have had multiple and overlapping uses during the years of operation. The Permittee's RFI Work Plan designates four SWMU Areas where past waste management practices occurred and SWMUs are located. A summary of the SWMUs within each of the four SWMUA Areas, including information on waste management unit type, general dimensions, structural description, time periods of operation and an abbreviated list of wastes managed in the unit, is provided in Table J3-1 of Section J of the Part B permit application. Detailed SWMU descriptions are found in the Permittee's Facility Background Report, Section 2.4 "Chronology of Known Waste Management Practices" (Pages 2-18 through 2-42). Past waste management practice areas are represented spatially in Figure J-1 in Section J of the Part B permit application.

E.4 Reserved.

E.5 RFI
OAC Rule 3745-55-011

The Permittee began implementation of the RFI required by Section VI of the U.S. EPA RCRA Part B Permit issued to the Permittee on September 8, 1988 by

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preparing the Facility Background Report that was submitted to U.S. EPA on May 3, 1989. Subsequent to preparation of the Facility Background Report, the Permittee submitted a report entitled "Investigative Analysis" to U.S. EPA on February 7, 1990. The "Investigative Analysis" report provided an assessment of the nature and extent of contamination of the Permittee's facility based on multimedia sampling and analytical data collected in and around SWMUs from 1986 through 1989. The "Investigative Analysis" also evaluated potential risks posed by site contamination to human health and the environment.

Subsequent to the "Investigative Analysis" report the Permittee submitted a proposed RFI Work Plan to U.S. EPA and Ohio EPA on September 25, 1991. The proposed RFI Work Plan included results of multimedia sampling and analysis from 1986 through 1991 and a site characterization based on this data. The proposed RFI Work Plan site characterization data constitute the initial phase of the RFI work at the facility and is often referred to as Phase 1. After responding to several Notices of Deficiency from U.S. EPA, the Permittee submitted a revised RFI Work Plan on November 3, 1993 which was approved by U.S. EPA on March 3, 1994.

The site characterization work completed under the November 3, 1993 work plan is often referred to as Phase II of the RFI. Characterization under the November 3, 1993 RFI Work Plan included multimedia sampling and analysis in and around SWMUs and the Equipment Storage Area (ESA), further sampling of site surface water bodies, further analysis of groundwater characteristics, groundwater modeling and an assessment of human health and ecological risk. The Permittee conducted the activities identified in the November 3, 1993 RFI Work Plan in 1994 and 1995 and submitted an RFI Report to U.S. EPA and Ohio EPA on December 7, 1995.

In May 1997 U.S. EPA and Ohio EPA provided comments to the Permittee on the December 7, 1995 RFI Report and on the scope of the RFI. U.S. EPA and Ohio EPA have worked with the Permittee since 1997 to define the final scope of the RFI, address data gaps in site characterization and improve the ecological risk assessment. To address U.S. EPA and Ohio EPA concerns, the Permittee has prepared a Work Plan Addenda for U.S. EPA and Ohio EPA review which represents the third stage (Phase III) of RFI activities at the facility.

On December 9-12, 2003, the Permittee conducted the Phase III sampling for the RFI based on the approved RFI Work Plan (dated November 3, 1993) and the approved RFI Work Plan Addenda (dated July 2, 2002). RIS submitted the results of the Phase III sampling and analysis to Ohio EPA by letter dated February 13, 2004. In a letter dated March 30, 2004, Ohio EPA stated: "Ohio EPA is satisfied that Ross Incineration Services has completed all required sampling and analysis work identified in the approved RFI work plan including Phases II and III of the work plan. The data package submitted to Ohio EPA meets the goals of the approved work plan and should be useable in completing the RFI Report for the RIS facility including facility characterization, evaluation and assessment of ecological and human health risk. There is no present need to collect additional RFI data."

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Permittee will prepare and submit RFI progress reports to Ohio EPA on a monthly basis during Work Plan Implementation activities. Otherwise, RFI progress reports will be prepared and submitted to Ohio EPA on a quarterly basis. Upon completion of the Phase III work, Permittee will prepare a revised RFI Report, which is expected to be the Final RFI Report, and submit it to Ohio EPA in accordance with the revised Phase III Work Plan Schedule (August 7, 2004).

The Permittee must conduct an RFI to thoroughly evaluate the nature and extent of the release of hazardous wastes and hazardous constituents from all applicable WMUs identified in Permit Condition E.3. above and Permit Condition E.10. The major tasks and required submittal dates are shown in Permit Condition E.5(a), (b) and (c) below. The scope of work for each of the tasks is found in the RFI workplans approved by USEPA prior to the effective date of this permit, or for newly identified waste managements units identified in Condition E.10, in the RFI section of the Ohio EPA Corrective Action Plan.

(a) RFI Workplan

Corrective Action oversight will transition to Ohio EPA on the date the renewal is issued final. Ohio EPA will accept all documents and activities completed in accordance with workplans submitted and approved under U.S. EPA authority prior to the issuance of this permit.

In the case of a newly discovered waste management unit the Permittee must submit a written RFI Workplan to Ohio EPA pursuant to a schedule established by Ohio EPA. Ohio EPA may determine based on site-specific facts that an update to the RCRA Facility Assessment (RFA) is necessary prior to preparation of a RFI Workplan.

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

(ii) Within 45 days of receipt of any Ohio EPA comments on the RFI Workplan, the Permittee must submit either an amended or new RFI Workplan that incorporates any Ohio EPA's comments.

(iii) Ohio EPA will 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.

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(b) RFI Implementation

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

The Permittee shall implement any RFI Workplan approved pursuant to Condition E.5(a) according to the terms and schedule in such approved RFI Workplan.

(c) RFI Final Report

The Permittee shall submit an RFI Final Report to Ohio EPA for the work completed pursuant to the RFI Workplan approved by U.S. EPA according to the terms and schedule in the approved RFI Workplan Addenda dated July 2, 2002 and the revised Phase III RFI Work Plan Schedule in Attachment 1 of Section J of the permit application.

For any RFI Workplan approved pursuant to Condition E.5(a), 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 for the work completed pursuant to the RFI Workplan approved by U.S. EPA and for work completed pursuant to any RFI Workplan approved pursuant to Condition E.5(a) must contain adequate information to support further decisions concerning corrective action at the Facility.

In the case of a newly discovered unit, the Permittee shall submit an RFI Final Report to Ohio EPA within sixty (60) days after the completion of the RFI. 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.

(i) If necessary, Ohio EPA shall provide written comments on the RFI Report to the Permittee.

(ii) Within 60 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.

(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 (IM)

Based on the RFI Final Report or other information documenting a release of hazardous waste or constituents to the environment, Ohio EPA may require (or the Permittee may propose) the development and implementation of an IM (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. The Permittee must implement the IM upon a time frame established by Ohio EPA.

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 permit modification under OAC Rule 3745-50-51 to terminate the Corrective Action tasks that the Permittee is obligated by this permit to complete. This permit modification application must conclusively demonstrate that there are no releases of hazardous waste or constituents from WMUs at the Facility that pose an unacceptable risk 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, Ohio EPA determines that releases or suspected releases which were investigated either are nonexistent or do not pose an unacceptable risk to human health and the environment, Ohio EPA will approve the requested modification. Decisions regarding the completion of RCRA Corrective Action and no further action may be made for the entire Facility, for a portion of the Facility, or for a specific unit or release.

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(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 a potential or an actual release of hazardous waste or constituents exists.

(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 potential release from a WMU at the Facility may pose an unacceptable risk 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 develop a Workplan and upon Ohio EPA approval of that Workplan, 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 in Condition E.9.

(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.

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

(2) Within 60 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.

(3) 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 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.

(1) If necessary, Ohio EPA shall provide written comments on the CMS Final Report to the Permittee.

(2) Within 60 days of receipt of Ohio EPA's comments, the Permittee shall submit either an amended or new CMS Final Report that incorporates Ohio EPA's comments.

(3) Ohio EPA shall approve or modify and approve, in writing, the amended or new CMS Final Report. The CMS Final 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 Final Report must be authorized by Ohio EPA.

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E.9 Corrective Measures Implementation (CMI)

The Permittee must 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 Report as approved by Ohio EPA pursuant to Condition E.8 (c), and will 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 that are generated during implementation.

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.

(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 3745-55-011

Within 45 days after receiving approval of the CMI, the Permittee must provide financial assurance in the amount necessary to implement the corrective measure(s) as required by OAC Rule 3745-55-011 (B) and (C).

E.10 Newly Identified SWMUs or Releases
OAC Rule 3745-55-011

(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:

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(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) Specifications 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 3745-55-011

If Ohio EPA determines in accordance with Condition E.5 that a RCRA Facility Investigation is required for newly identified WMUs, the Permittee shall submit a written RCRA Facility Investigation Workplan to Ohio EPA upon a timeframe established in written notification by Ohio EPA. Ohio EPA shall act upon the workplan as specified in Condition E.5.

Further investigations or corrective measures will be established by Ohio EPA following the procedures in Conditions E.6 and E.8.

Permittee shall make such submittal in accordance with timeframes established by Ohio EPA.

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## MODULE F - TREATMENT IN MISCELLANEOUS UNIT

### F. MODULE HIGHLIGHTS

The filter press treats scrubber water from the closed loop scrubber water system by physical removal of solids from the scrubber water feed stream. A damp cake of compressed solids is generated, dropped into a container, and transported to an offsite treatment or disposal facility. The liquid filtrate is recycled back to the closed loop scrubber water system. The filter press is located in the Filter Press Building. The filter press has a 2.4 cubic yard per batch capacity. Secondary containment for the filter press is provided by the Filter Press Building liner and sump system which has a total capacity of 23,070 gallons.

F.1 Reserved.

F.2 Process Capacity/Annual Limitation

The Permittee shall not exceed a maximum process treatment capacity of 111,000 gallons per day of scrubber water feed to the filter press.

F.3 Waste Identification
OAC Rule 3745-57-90

The Permittee shall treat in the permitted hazardous waste filter press only scrubber water and scrubber water sludges from blow-down operations of the closed loop scrubber water system carrying the hazardous waste codes specified in Section A of the Part B permit application under the process codes of T04 and T03 and for which incineration is permissible under the restrictions and prohibitions in Table C1-1 of Section C of the Part B permit application.

F.4 Assessment/Certification of Miscellaneous Unit
OAC Rules 3745-57-91 and 3745-50-42(D)

The Permittee shall keep on file at the facility a written statement by a qualified, registered professional engineer that attests that the filter press system was properly designed and installed. The written statement must also include the certification as required by OAC Rule 3745-50-42(D).

F.5 Containment System
OAC Rule 3745-57-91

(a) Secondary containment must be designed, installed and operated to prevent any migration of waste or accumulated liquid out of the system to soil, groundwater or surface water.

(b) Secondary containment must be capable of detecting and collecting releases and accumulated liquids until the collected material is removed.

(c) The secondary containment must meet the requirements of OAC Rule 3745-55-93.

F.6 General Operating Requirements
OAC Rule 3745-57-91

(a) Hazardous waste or treatment reagents shall not be placed in the filter press system if they could cause the filter press, its ancillary equipment, or the secondary containment system to rupture, leak, corrode or otherwise fail, as required by OAC Rule 3745-55-94.

(b) The Permittee must use appropriate controls and practices to prevent spills or overflows from the filter press or containment system.

(c) The filter press must be operated in accordance with the procedures and practices in Section D of the Part B permit application, manufacturer's instructions and accepted industry practice.

(d) The filter press must be maintained in accordance with manufacturer's recommendations and accepted industry practice.

(e) The Permittee must comply with the requirements of OAC Rule 3745-55-96 if a leak or spill occurs in the filter press system.

F.7 Inspections
OAC Rule 3745-57-92

(a) The Permittee shall inspect the hazardous waste filter press system daily in accordance with OAC Rule 3745-55-95 and Pages 21 and 22 of 45 of Appendix F-2 of Section F of the Part B permit application.

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(b) The Permittee shall document compliance with Condition F.7 (a) in an inspection log.

F.8 Response to Leaks or Spills and Disposition of Leaking or Unfit for Use Miscellaneous System
OAC Rule 3745-57-92

A hazardous waste filter press system or secondary containment system from which there has been a leak or spill, or which is unfit for use, must be removed from service immediately and the Permittee must satisfy the following requirements in accordance with OAC Rule 3745-55-96.

(a) Cessation of Use

The Permittee must immediately stop the flow of hazardous waste into the filter press system or secondary containment system and inspect the system to determine the cause of the release.

(b) Removal of Waste From the Miscellaneous Unit or Secondary Containment System

(i) If the release was from the filter press system, the Permittee must, within twenty-four hours after detection of the leak, remove as much waste as necessary to prevent further release of hazardous waste to the environment and to allow inspection and repair of the filter press system to be performed.

(ii) If the material released was to a secondary containment system, all released materials must be removed within twenty-four hours of the release to prevent harm to human health and the environment.

(c) Containment of Visible Releases to the Environment

The Permittee shall immediately conduct a visual inspection of the release and, based upon that inspection, prevent further migration of the leak or spill to soil or surface water and remove, and properly dispose of, any visible contamination of the soil or surface water.

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(d) Notifications

Any release to the environment, except as provided in OAC Rule 3745-55-96 (D)(2), must be reported to the director of Ohio EPA within twenty-four hours of detection.

(e) The Permittee shall obtain a certification by an independent, qualified professional engineer, that any major repair has been satisfactorily performed, and the unit is capable of handling hazardous waste without release for the intended life of the system. The certification must be submitted to the director of Ohio EPA within seven days after returning the filter press system to use.

F.9 Special Requirements

(a) Ignitable or Reactive Waste

The Permittee shall not place ignitable or reactive waste in the filter press.

(b) Incompatible Waste

(i) The Permittee must not place incompatible waste in the same filter press system or place hazardous waste in a filter press system that previously held an incompatible waste or material unless it is done in accordance with OAC Rule 3745-55-99.

(ii) The Permittee shall document compliance with Condition F.9 (b)(i) of this permit, as required by OAC Rule 3745-55-99, and place this documentation in the operating record.

F.10 Closure and Post-Closure Care
OAC Rule 3745-57-91 and 3745-57-93

At closure of the filter press system, the Permittee shall follow the procedures in Section I of the Part B permit application in accordance with OAC Rules 3745-55-10 through 3745-55-40.

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# MODULE G - POST-CLOSURE CARE

G.1 Module Highlights

This section is applicable to units with in-place closure approval by Ohio EPA. The following unit is subject to post-closure care:

Surface impoundment SWI 7

Surface impoundment SWI 7 contains hazardous waste placed in the impoundment prior to November 8, 1988 and subsequently stabilized and stabilized hazardous waste transferred from impoundments SWI-2 and SWI-6 during closure. No hazardous waste, other than hazardous waste transferred from SWI-2 and SWI-6 during closure, has been added to this impoundment since that date. Hazardous wastes managed in the unit included scrubber water and scrubber water sludge. This unit will require thirty (30) years of post-closure ground water monitoring and post-closure care.

G.2 Unit Identification

The Permittee shall provide post-closure care for the following hazardous waste management unit upon completion of the closure requirements as found in this Permit and OAC Chapter 55,subject to the terms and conditions of this permit, and as described below:

| Type of Waste Unit | Unit No. or Other Designation | Description of Wastes Contained | Hazardous Waste No. |
|---|---|---|---|
| Surface Impoundment* | Surface impoundment 7 or SWI 7 | Scrubber water and scrubber water sludge which is composed primarily of incinerator fly ash | Multiple |

*Post-closure care shall not be required for any unit for which the Permittee can demonstrate that closure was by removal or decontamination meeting the requirements of OAC Rule 3745-56-28.

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G.3 Post-Closure Procedures and Use of Property
OAC Rules 3745-55-17 and 3745-55-18

(a) The Permittee shall conduct post-closure care for each hazardous waste management unit listed in permit Condition G.2. above, to begin after completion of closure of the unit and continue for 30 years after that date, except that the 30-year post-closure care period may be shortened upon application and demonstration approved by Ohio EPA that the facility is secure, or may be extended by Ohio EPA if the Director finds this is necessary to protect human health and the environment.

(b) The Permittee shall maintain and monitor the groundwater monitoring system and comply with all other applicable requirements of OAC Rules 3745-54-90 thru 99 and OAC Rule 3745-55-01 during the post-closure period.

(c) The Permittee shall comply with the requirements for surface impoundments as follows:

(i) maintain the integrity and effectiveness of the final cover, including making repairs to the cap, as necessary, to correct the effects of settling, subsidence, erosion, and other events; and

(ii) prevent run-on and run-off from eroding or otherwise damaging the final cover.

(d) The Permittee shall comply with all security requirements, as specified in the Part B permit application.

(e) The Permittee shall not allow any use of the units designated in permit Condition G.2. which will disturb the integrity of the final cover, liners, any components of the containment system, or the function of the facility's monitoring systems during the post-closure care period.

(f) The Permittee shall implement the procedures as detailed in the Post-Closure Plan within Section I of the Part B permit application and the post closure ground water monitoring program as detailed in Section E of the Part B permit application and as modified by Condition B.35(a). All post-closure care activities must be conducted in accordance with the provisions of the Post-Closure Plan.

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G.4 Inspections
OAC Rule 3745-55-17

The Permittee shall inspect the components, structures, and equipment at the site in accordance with the Inspection Schedule.

G.5 Notices and Certification
OAC Rule 3745-55-19

(a) No later than 60 days after certification of closure of each permitted hazardous waste disposal unit, the Permittee shall submit to the local zoning authority, or the authority with jurisdiction over local land use, and to the Director, a record of the type, location, and quantity of hazardous wastes disposed of within each cell or other disposal unit of the facility. For hazardous wastes disposed of before January 12, 1981, the Permittee shall identify the type, location, and quantity of the hazardous wastes to the best of his knowledge and in accordance with any records he has kept.

(b) Within 60 days of certification of closure of the first and the last hazardous waste disposal unit, the Permittee shall:

(i) Record, in accordance with Ohio law, a notation on the deed to the facility property, or on some other instrument that is normally examined during the title search, that will in perpetuity notify any potential purchaser of the property that:

(aa) the land has been used to manage hazardous wastes;

(bb) its use is restricted under OAC Rule 3745-55-10 thru 20; and

(cc) the survey plat and record of the type, location, and quantity of hazardous wastes disposed of within each cell or other hazardous waste disposal unit of the facility have been filed with the Director and the Lorain County zoning authority.

(ii) Submit a certification to the Director, signed by the Permittee, that he has recorded the notation specified in permit Condition G.3(b)(i), including a copy of the document in which the notation has been placed.

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(c) If the Permittee or any subsequent owner or operator of the land upon which the hazardous waste disposal unit is located wishes to remove hazardous wastes and hazardous waste residues, the liner, if any, or contaminated soils, then he shall request a modification to this permit in accordance with the applicable requirements in OAC Chapter 3745-50. The Permittee or any subsequent owner or operator of the land shall demonstrate that the removal of hazardous wastes will satisfy the criteria of OAC Rule 3745-55-17(C).

(d) No later than 60 days after completion of the established post-closure care period for each hazardous waste disposal unit, the Permittee shall submit to the Director, by registered mail, a certification that the post-closure care for the hazardous waste disposal unit was performed in accordance with the specifications in the approved Post-Closure Plan. The certification must be signed by the Permittee and an independent, registered professional engineer. Documentation supporting the independent, registered professional engineer's certification must be furnished to the Director upon request until the Director releases the Permittee from the financial assurance requirements for post-closure care under OAC Rule 3745-55-45.

G.6 Financial Assurance
OAC Rule 3745-55-45

The Permittee shall continuously maintain financial assurance during the post-closure period and comply with all applicable requirements of OAC Rules 3745-55-40 thru 51.

G.7 Post-Closure Permit Modifications
OAC Rule 3745-55-18

The Permittee must request a permit modification to authorize a change in the approved Post-Closure Plan. This request must be made in accordance with the applicable requirements of OAC Chapter 3745-50 and must include a copy of the proposed amended Post-Closure Plan for approval by the Director. The Permittee shall request a permit modification whenever changes in operating plans or facility design affect the approved Post-Closure Plan, there is a change in the expected year of final closure, or other events occur during the active life of the facility that affect the approved Post-Closure Plan. The Permittee must submit a written request for a permit modification at least 60 days prior to the proposed change in facility design or operation, or no later than 60 days after an unexpected event has occurred which has affected the Post-Closure Plan.

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# MODULE I(A) - INCINERATION

## I(A).1 MODULE HIGHLIGHTS

The incineration unit includes the following components and systems:

(a) Two enclosed combustion devices: the rotary kiln and the main chamber;

(b) Material handling and feed systems for liquid and solid wastes as identified in Section D-5 of the permit application,

(c) An ash handling system for removing the ash remaining after the combustion of wastes which includes ash cooling, de-watering, separation of metal pieces and conveying ash into appropriate containers;

(d) An air pollution control system for removal of acidic gases and particulate matter; and

(e) Associated instrumentation and control systems.

Wastes are introduced into either the rotary kiln or the main chamber. Flue gas from the rotary kiln flows into the main chamber which functions as a secondary combustion chamber for the rotary kiln.

Flue gases pass from the main chamber to the air pollution control equipment which removes contaminants (primarily particulates and acid gases) contained in the flue gas prior to discharge through a stack to the atmosphere.

Stack emissions are monitored for carbon monoxide, oxygen and nitrogen oxides. Carbon monoxide is the primary indicator of combustion efficiency and destruction efficiency of hazardous constituents in the wastes.

Critical process parameters are continuously monitored and are accessible to the control room operator. The control system maintains key process parameters within specific ranges. The

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control system will automatically cut off waste feeds if certain process parameters fall outside of the allowable operating range.

Procedures in the facility's waste analysis plan and other sections of the Part B permit application limit hazardous wastes fed to the incinerator to those that the facility is permitted to incinerate.

On September 30, 1999, U.S. EPA promulgated Maximum Achievable Control Technology ("MACT") standards for hazardous waste burning incinerators. These standards were promulgated under the joint authority of the Clean Air Act ("CAA") and RCRA. In the 1999 final rule, U.S. EPA indicated that it chose to avoid imposing duplicative requirements under both RCRA and the CAA, where possible, by:

- Placing the standards only in the CAA implementing regulations at 40 CFR Part 63 Subpart EEE,
- Specifying that the analogous standards in the RCRA regulations no longer apply once a facility demonstrates compliance with the hazardous waste combustor ("HWC") MACT standards in subpart EEE, and
- Requiring the HWC MACT standards to be incorporated into operating permits issued under Title V of the CAA rather than in RCRA permits.

Since 1999, U.S EPA has issued several technical corrections and amendments to the HWC MACT standards to improve their implementation. This includes, but is not limited to, the final replacement HWC MACT Standards which established a compliance date of October 14, 2008 for new and existing sources. The Permittee submitted a Notification of Compliance with the final replacement HWC MACT Standards on October 13, 2008 to Ohio EPA, and separately requested that such standards be incorporated into its Title V Permit, where applicable. As such, those RCRA conditions, limits and restrictions which have been superseded by equivalent or more stringent requirements under the final HWC MACT replacement standards have been removed from this permit and its associated Application.

If the Director of Ohio EPA concludes, based on one or more of the factors under OAC 3745-50-40(I)(1) to (I)(1)(i) that compliance with the standards of 40 CFR Part 63 subpart EEE alone may not be protective of human health or the environment, the Director will require the additional information or assessment(s) necessary to determine whether additional controls are necessary to ensure protection of human health and the environment.

I(A).2 Identification Criteria for Permitted and Prohibited Waste
OAC Rule 3745-57-44

The Permittee may incinerate the following hazardous wastes, as specified in this permit. The Permittee may only feed the hazardous wastes as identified below at the facility subject to permit Conditions I(A).3. through I(A).5., and I(A).8.

(a) The Permittee shall only incinerate hazardous wastes meeting the following criteria:

(i) Reserved.

(ii) The Permittee shall not feed any hazardous waste whose current Ohio EPA hazardous waste code number does not appear in Part A of the permit application under the process code of T03.

(iii) The Permittee shall not feed any hazardous waste for which incineration would be inconsistent with the restrictions and prohibitions in Table C1-1 of Section C of the Part B permit application.

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(iv) Intentionally left blank.

(vi) Reserved.

(vii) Reserved.

(viii) Reserved.

(ix) Reserved.

(b) Throughout operation, the Permittee shall conduct sufficient analysis in accordance with the Waste Analysis Plan to verify that waste fed to the incinerator is within the physical and chemical composition limits specified in this permit.

(c) Reserved.

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(d) The point of injection or feed for all hazardous waste streams fed into the incinerator shall be consistent with Table C1-1 of Section C of the Part B permit application.

(e) Reserved.

(f) Only waste feed systems specified in Section D-5 of the Part B permit application shall be used to feed wastes to the incinerator.

(g) The Permittee shall not feed wastes through the kiln aerosol can feeder and the second main chamber aerosol can feeder until and unless they are modified to the same design and operating standards as the first main chamber aerosol can feeder and Ohio EPA has approved these modifications in accordance with permit Condition I(A).9(e).

I(A).3 Construction, Instrumentation, and Operational Performance Requirements
OAC Rule 3745-57-45

Wastes described in permit Condition I(A).2. may be fed to the incinerator only in compliance with permit Conditions I(A).3(a) through (w).

(a) Reserved.

(b) Reserved.

(c) Reserved.

(d) Reserved.

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(e) Reserved.

(f) Reserved.

(g) Reserved..

(h) Reserved.

(I) Reserved.

(j) Reserved.

(k) Reserved.

(l) Reserved.

(m) Reserved.

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(n) Reserved.

(o) Reserved.

(p) Reserved.

(q) Reserved.

(r) Feed Restrictions for the Side Door and Direct Feed Locations

(I) The Permittee shall follow the procedures and practices identified in Sections C, D and F of the Part B permit application for determining the compatibility of waste materials being fed to the side door and tanker and container direct feed mechanisms of the Main Chamber.

(ii) The Permittee shall follow the procedures and practices identified in section D-5c (1)(c)(iv) of the permit application when feeding waste into the Main Chamber through the side door feed mechanism.

(iii) The Permittee shall follow the procedures and practices identified in Section D of the Part B permit application for operation of the tanker and drum direct feed systems, the side door feed system and the direct feed areas.

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(iv) The Permittee shall comply with the following general operating requirements for operation of the direct feed systems and the direct feed areas:

The direct transfer of hazardous waste to the incinerator shall be conducted so that it does not:

(1) Generate extreme heat or pressure, fire, explosion or violent reaction;

(2) Produce uncontrolled toxic mists, fumes, dusts or gases in sufficient quantities to pose a risk of fire or explosion;

(3) Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions;

(4) Damage the structural integrity of the container or direct transfer equipment containing the waste; or

(5) Reserved.

(6) Threaten human health or the environment.

The Permittee shall conduct direct feed transfer only in areas with spill containment as indicated in Sections D and F of the Part B permit application.

The Permittee shall conduct inspections of the direct feed area in accordance with Sections D and F of the Part B permit application, maintain records of these inspections in the operating record of the facility and make them available for review for at least three years from the date of the inspection.

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(v) Reserved.

(vi) The Permittee shall not feed empty containers through the side door feed mechanism unless the provisions applicable to empty containers in the Side Door Implementation Plan dated November 23, 1998, which plan is included in U.S. EPA's Administrative Orders dated December 12, 1998, are met.

(s) Reserved.

(t) The Permittee shall comply with all the applicable requirements for restricted wastes and treatment residues (ash, scrubber water, etc.) specified in the rules found in OAC Chapter 3745-270.

(u) Reserved.

(v) Reserved.

I(A).4 Inspection Requirements
OAC Rule 3745-57-47

The Permittee shall inspect the incineration unit in accordance with the Inspection Schedule in Section F of the Part B permit application and shall complete the following as part of these inspections:

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(a) The Permittee shall thoroughly visually inspect the incinerator and associated equipment (including pumps, valves, conveyors, pipes, etc.) for leaks, spills, fugitive emissions, and signs of tampering, as specified in Pages 14 and 15 of 45 in Appendix F-2 of Section F of the Part B permit application.

(b) Reserved.

(c) Reserved.

(d) The Permittee shall conduct all other inspections applicable to the incineration unit as specified in Appendix F-2 of Section F of the Part B permit application.

I(A).5 Monitoring Requirements
OAC Rule 3745-57-47

(a) Reserved.

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(b) Reserved.

(c) The Permittee shall log the following data while incinerating hazardous waste:

(i) Quantities of chemicals used in conjunction with air pollution control equipment in tons/month of caustic used or equivalent.

(ii) Quantities of ash and air pollution control sludges generated in tons/month.

(d) Reserved.

I(A).6 Waste Feed Cut-Off Requirements
OAC Rule 3745-57-45

(a) Reserved.

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(b) Reserved.

(c) Reserved.

(d) Unless the Permittee can show otherwise per OAC Rule 3745-51-03(D), residue from the incinerator is hazardous waste, the Permittee is a generator and must manage this hazardous waste according to the Ohio hazardous waste regulations. The Permittee shall manage residue from the incinerator in accordance with the applicable practices and procedures in Sections C and D of the Part B permit application.

I(A).7 Closure
OAC Rule 3745-57-51

The Permittee shall follow the procedures in the Closure Plan in Section I of the Part B permit application.

I(A).8 Recordkeeping

(a) The Permittee shall record and maintain, in the operating record for this facility, all monitoring and inspection data compiled under the requirements of this permit.

(b) Reserved.

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(c) Reserved.

(d) Reserved.

I(A).9 Compliance Schedule

(a) Reserved.

(b) The Permittee shall evaluate the ability of the containment system for incinerator tanker direct feed locations Number 1 and 2 to safely contain releases of highly volatile and flammable liquid wastes (e. g. Class 1A, 1B and 1C liquids).

For those wastes possessing flammability properties that are not consistent with using the trench as part of the containment system, the Permittee shall include the following options in its evaluation:

(i) Do not tanker direct feed, or

(ii) Feed at tanker direct feed location number 3, or

(iii) Modify the containment system to address the concerns with the risk of ignition of flammable liquids contained in the trench.

The Permittee will submit to Ohio EPA for review within 6 months after the effective date of this permit a plan detailing the methods to be used for conducting the evaluation and for assessing the hazards of a release of highly volatile and flammable liquid wastes from incinerator tanker direct feed locations Number 1 and 2. Ohio EPA will either approve the plan, issue a notice of deficiencies or a revised plan. Upon receipt of an approved plan, the Permittee shall conduct the evaluation and submit the results of the evaluation to Ohio EPA for review within six months. Ohio EPA will either approve the evaluation, issue a notice of deficiencies or a revised evaluation. If any changes to tanker direct feed containment or operations are required as a result of the evaluation, Ohio EPA will request that the Permittee submit a permit modification request to implement such changes or Ohio EPA will initiate a permit modification request.

If the Permittee believes that any of the preceding schedules provide insufficient time to complete the requested work, the Permittee may submit a permit modification request documenting the basis for such belief and requesting an amended schedule.

(c) The Permittee shall extend the concrete paving at Tanker Direct Feed Site Number 3 so that no portion of any direct feed tanker projects over an unpaved area and to provide adequate lateral extensions from the tanker centerline (five feet minimum each side of centerline) for adequate containment of releases. Until the extended concrete paving is completed, the Permittee shall place tankers completely over concrete, including providing adequate lateral extensions from the tanker centerline (five feet minimum each side of centerline) when performing tanker direct feeding at Site Number 3.

The Permittee shall construct the paving to the same standards as the paving proposed for former OCSA 1 and described in the Permittee's letter to Ohio EPA dated June 13, 1995. Within 90 days of completion of the paving, the Permittee shall submit appropriate documentation, including "as-built" drawings and a Professional Engineer's certification, in a permit modification request.

Alternatively if Permittee does not intend to construct the paving to the same standards as the proposed paving for former OCSA 1 described in the

PM 8/8/05



Permittee's letter to Ohio EPA dated June 13, 1995, Permittee shall submit a permit modification request prior to installation which includes appropriate drawings and construction standards. The Permittee shall submit the required permit modification request no later than nine months after the date of this permit. The Permittee shall complete construction no later than six months after Ohio EPA approval of the construction drawings.

If the Permittee believes that any of the preceding schedules provide insufficient time to complete the requested work, the Permittee may submit a permit modification request documenting the basis for such belief and requesting an amended schedule.

(d) Reserved.

(e) The Permittee shall not operate the second main chamber aerosol can feeder until:

(i) It has been modified to the same design and operating standards as the first main chamber aerosol can feeder;

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(ii) The Permittee has submitted to Ohio EPA a permit modification request that includes documentation that the feeder has been so modified and a request to operate; and

(iii) The permit modification request is approved by Ohio EPA.

(f) Reserved.

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# Attachment A–Module I(A)
## Incinerator Operating Limits

| | | Maximum | Minimum |
|---|---|---|---|
| 1. | Waste feed 1-hour rolling average, lb/hr. Excludes recycled waste feeds. | | |
| | Total system hazardous waste feed rate[f] (lb/hr) | 26,057 | 0 |
| | Liquid waste to main chamber (lb/hr) | 12,852 | 0 |
| | Total waste to main chamber (lb/hr) | 18,515 | 0 |
| | Liquid waste to kiln (lb/hr) | 5,685 | 0 |
| | Total waste to kiln (lb/hr) | 19,848 | 0 |
| 1.1 | Waste Feed (tons/year). Excludes recycled waste feeds. | 105,120 | 0 |
| 2. | Bypass fuel rate to main chamber, lb/hr | 10,190 | NA[g] |
| | Bypass fuel rate to kiln-liquid feed lb/hr | 4,000 | NA |
| | Bypass fuel rate to kiln-natural gas, $ft^3$/min | 667 | NA |
| 3. | Kiln combustion temperature waste feed cutoff[h], $^oF$ | 2,400[l] | 1,700[l] |
| 4. | Main chamber combustion temperature waste feed cutoff[h], $^oF$ | 2,400 | 1,700 |
| 5. | Radial Flow Scrubber inlet temperature, $^oF$ | 194 | NA |
| 6. | Radial Flow Pressure Drop, hourly rolling average, inches WC | NA | 10 |
| 7. | Gas-Liquid Contactor Drain, pH hourly rolling average | NA[g] | 6.0 |
| 8. | CO level, ppm dry corrected to 7% $O_2$ 1-hour rolling average | 100 | NA[g] |
| 9. | Total induction fan, amps[j] | *k | *k |
| 10. | System halogen daily average waste feed, lb/hr | 2,000 | N/A[g] |
| 11. | Liquid burner feed waste atomization pressure, psig[i] | | |
| | Main Chamber | 100 | 5 |
| | Kiln, psig | NA | 80 |
| 12. | Fuel burner atomization air pressures | | |
| | Main Chamber, osi | NA[g] | 16 |
| | Kiln, psig[i] | NA[g] | 90 |
| 13. | Liquid feed ash content, % | 40 | NA[g] |
| 14. | Solid feed ash content, % | 100 | NA[g] |
| 15. | Combustion gas volumetric flow, acfm at 140 $^oF$ saturated | 70,000 | NA[g] |
| 16. | Main chamber vacuum, in. $H_2O$ for 15 seconds | NA[g] | 0.05 |
| 17. | Kiln vacuum, in $H_2O$ for 30 seconds | NA[g] | 0.05 |
| 18. | WESP electrical settings[o] | | |
| | Total power, hourly rolling average VA | | 900[o] |
| | Scrubber water flow rates | | |
| 19. | Radial Flow Scrubber hourly rolling average (gpm)[m] | NA | 800 |
| | Gas Liquid Contactor hourly rolling average (gpm)[m,n] | NA | 2200 |
| 20. | Metals feed limits, lb/hr (24-hr rolling average) For each specific metal, maximum feed rates to the kiln and main chamber shall not be employed simultaneously. | | |

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# Attachment A–Module I(A)
## Incinerator Operating Limits (Cont.)

| Carcinogenic metals | Kiln (K) | Main Chamber (M.C.) |
|---|---|---|
| Maximum arsenic (As) | 9.56 lb/h[c] | 1.74 lb/h[b,d] |
| Maximum beryllium (Be) | 8.02 lb/h | 3.59 lb/h[b] |
| Maximum cadmium (Cd) | 23.5 lb/h | 4.20 lb/h[e] |
| Maximum chromium (Cr) | 195.2 lb/h | 47.2 lb/h |

### Additive Effect Of Carcinogenic Metals

Ohio EPA has limited the combined risk effect of the carcinogenic metals to be less than $1.0 \times 10^{-5}$.

Therefore, the carcinogenic metals will also be restricted by the following equation:

$$A_K/W_K + A_{MC}/W_{MC} + B_K/X_K + B_{MC}/X_{MC} + C_K/Y_K + C_{MC}/Y_{MC} + H_K/Z_K + H_{MC}/Z_{MC} \leq 1.0$$

$$A/W + B/X + C/Y + H/Z \leq 1.0 \quad \text{where:}$$

- $A_K$ = actual 24-h rolling average, lb/h of arsenic to the kiln
- $A_{MC}$ = actual 24-h rolling average, lb/h of arsenic to the main chamber
- $B_K$ = actual 24-h rolling average, lb/h of beryllium to the kiln
- $B_{MC}$ = actual 24-h rolling average, lb/h of beryllium to the main chamber
- $C_K$ = actual 24-h rolling average, lb/h of cadmium to the kiln
- $C_{MC}$ = actual 24-h rolling average, lb/h of cadmium to the main chamber
- $H_K$ = actual 24-h rolling average, lb/h of total chromium to the kiln
- $H_{MC}$ = actual 24-h rolling average, lb/h of total chromium to the main chamber
- $W_K$ = 18.9 lb/h (maximum) of arsenic to the kiln based on $1.0 \times 10^{-5}$ Risk Factor
- $W_{MC}$ = 1.74 lb/h (maximum) of arsenic to the main chamber based on a $1.0 \times 10^{-5}$ Risk Factor
- $X_K$ = 18.66 lb/h (maximum) of beryllium to the kiln based on $1.0 \times 10^{-5}$ Risk Factor
- $X_{MC}$ = 8.35 lb/h (maximum) of beryllium to the main chamber based on $1.0 \times 10^{-5}$ Risk Factor
- $Y_K$ = 23.52 lb/h (maximum) of cadmium to the kiln based on $1.0 \times 10^{-5}$ Risk Factor
- $Y_{MC}$ = 4.20 lb/h (maximum) of cadmium to the main chamber based on $1.0 \times 10^{-5}$ Risk Factor
- $Z_K$ = 1509.5 lb/h (maximum) of chromium to the kiln based on $1.0 \times 10^{-5}$ Risk Factor
- $Z_{MC}$ = 1509.5 lb/h (maximum) of chromium to the main chamber based on $1.0 \times 10^{-5}$ Risk Factor[c]

| Noncarcinogenic metals | Kiln (K) | Main Chamber (M.C.) | K + MC[a] |
|---|---|---|---|
| Maximum Antimony (Sb) | 83.9 lb/h | 37.5 lb/h[b,d] | < 83.9 lb/h |
| Maximum Lead (Pb) | 123.1 lb/h | 77.2 lb/h | < 123.1 lb/h |
| Maximum Thallium (Tl) | 142.5 lb/h | 142.5 lb/h | < 142.5 lb/h |
| Maximum Barium (Ba) | 219.9 lb/h | 219.9 lb/h | < 219.9 lb/h |
| Maximum Silver (Ag) | 12.9 lb/h | 12.9 lb/h | < 12.9 lb/h |
| Maximum Mercury (Hg) | 11.3 lb/h | 11.3 lb/h | < 11.3 lb/h |

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# Attachment A-Module I(A)
# Incinerator Operating Limits (Cont.)

EXPLANATION OF SUPERSCRIPTS:

a) Values are based on the following equation: Kiln + Main Chamber = Maximum Kiln x Decimal Percentage Fed to Kiln + Maximum Main Chamber x (1 - Decimal Percentage Fed to Kiln) < Maximum Kiln
b) Value is based on adjusted Tier I and EPA Removal Efficiency
c) Value is based on corrected emission rate for 43% lead recovery in spike sample
d) Value is based on test condition 2 overall system removal efficiency (OSRE) for lead and corrected emission rate from 43 lead recovery in spike sample
e) Value is based on test condition 1 OSRE for chromium
f) Includes weight of containers
g) NA=Not applicable
h) Waste feed cutoff as follows:
If the instantaneous temperature drops below 1700°F or goes above 2400°F, Alarms as follows:
If temperature drops below 1845°F for 2 minutes or goes above 2255°F for 2 minutes.
If the kiln temperature goes above 2355°F for more than 50 seconds.
i) Kiln burner waste feed atomization pressure and kiln burner atomization air pressure may be zero during periods when the kiln burner is not being utilized. Main chamber burner waste feed atomization pressure may be zero during periods when the main chamber burner is not in use.
j) Total induction fans amps applicable only when combustion fan gas flow rate monitor is off line.
k) Fan amp range will be that established during interim operation period for air pollution control equipment.
l) RIS complies with its current kiln temperature limit by adding 200°F to the reading of the kiln dropout box thermocouple. Therefore, the allowable kiln WFCO temperature range of 1700 to 2400°F is translated to 1500 to 2200°F as indicated by the thermocouple at the outlet of the dropout box. This adjustment results from the approximately 200°F temperature drop across the kiln dropout box caused by heat losses and water evaporation/cooling from the wet ash removal system.
m) Pump current will be used as a back-up for flow meter failure. Pump current ranges to be determined after start-up.
n) Total contactor flow and WESP flush flow during WESP flush.
o) RIS will operate the WESP controller in a manner that maximizes the particulate removal performance of the unit. This shall include but not be limited to setting the controller to automatically maximize effective secondary voltage while considering the manufacturer's recommended maximum spark rate. RIS will not arbitrarily or artificially lower WESP controller set points, except for the purposes of particulate removal performance testing or to optimize particulate removal performance by minimizing sparking. RIS will record the initial configuration parameters of the WESP controller and any deviations therefrom, including the reason for such deviation, in the operating record.

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# Attachment B - Module I(A)
## Waste Feed Cutoff Actuating Events and Settings

| Operating Limits Exceeded | Kiln | Main Chamber | Kiln & Main Chamber | Alarm |
|---|---|---|---|---|
| Gas Temp Main Chamber | | | X[a] | |
| Gas Temp Kiln | X[a] | | | |
| Gas Flowrate | | | X[b] | |
| Negative Draft | X[c] | X[d] | | |
| CO Concentration | | | X | |
| Loss of Atomization | | | X | |
| Loss of both WESP Operation | | | X | |
| APCE Temperature | | | | Alarm Only |
| Pressure Differential | | | | Alarm Only |
| Scrubber Liquor pH | | | | Alarm Only |
| Scrubber Water Flowrate | | | | Alarm Only |
| Electrical Settings, WESP, Low Specific Power | | | | Alarm Only |
| Oxygen | | | | Alarm Only |

a Instantaneous waste feed cutoff actuated if temperature goes above 2400°F or drops below 1700°F.
b Waste feed cutoff following deviation of operating parameters for 5 minutes.
c Waste feed cutoff following deviation of operating parameters for 30 seconds.
d Waste feed cutoff following deviation of operating parameters for 15 seconds.

Gas Temperature Main Chamber
Waste feed cutoff shall be actuated when temperature deviates from the operating limits specified in Table D5-4 - item 4. Alarm only will sound at 2255°F and 1845°F after 2 minutes.

Gas Temperature Kiln
Waste feed cutoff shall be actuated when temperature deviates from the operating limits specified in Table D5-4 - item 3. Alarm only will sound at 2355°F after 50 seconds and 2255°F and 1845°F after 2 minutes.

Slagging Operating Condition at 2355°F for 50 seconds is as follows:

- This specific operating condition is applied only when an optimal slagging condition is required;
- An instantaneous and appropriate action is implemented by adjusting the kiln temperature to its normal operating temperature range of 1845°F to 2255°F when the applicable alarm system is activated.

Gas Flowrate
Waste feed cutoff shall be actuated when the gas flow rate deviates from the applicable operating limits specified in Table D5-4 - item 9 or 15 as applicable for more than 5 minutes.

Negative Draft
Kiln - Waste feed cutoff shall be actuated to kiln when the operating limits for the kiln specified in Table D5-4- item 17 are exceeded.

Main Chamber - Waste feed cutoff shall be actuated to the main chamber when the operating limits for the main chamber specified in Table D5-4- item 16 are exceeded.

# Attachment B–Module I(A)
## Waste Feed Cutoff Actuating Events and Settings (Cont.)

CO Concentration - Waste feed cutoff shall be actuated to kiln and main chamber when the operation limits specified in Attachment A, item 8 of this permit application are exceeded.

Loss of Atomization Air - Waste feed cutoff shall be actuated to the kiln and main chamber when the main chamber atomizing air pressure drops below the operating limit specified in Attachment A, Item 12.

Loss of both WESP Operation - Waste feed cutoff shall be actuated to the kiln and main chamber when both WESPs are not in operation (exclusive of WESP wash cycle).

APCE Temperature - An alarm will be actuated when the temperature of the gases at the radial flow scrubber inlet exceed limit specified in Attachment A, item 5.

APCE Pressure Differential - An alarm will be actuated when the pressure differential across the radial flow scrubber drops below the limits specified in Attachment A, item 6.

Scrubber Liquor pH - An alarm will be actuated when the pH of the scrubber liquor from the gas liquid contactor rundown drops below the limits specified in Attachment A, item 7.

Scrubber Water Flow rate - An alarm will be actuated when the water flow rate to the radial flow scrubber or gas liquid contactor falls outside the operating range specified in Attachment A, item 19.

Electrical Setting - An alarm will be actuated when the electrical settings to the WESP units fall outside the operating range specified in Attachment A, item 18.

Oxygen - An alarm will be activated when the oxygen concentration in the stack falls below 9%, dry basis.

**Automatic Safety Control System:**

Liquid feed rate – Liquid feed from the direct feed or Low Btu Tank Farm (Tank Farm III) to the main chamber will be automatically cutoff whenever the following conditions are sensed:

- Low Btu from Tank Farm III or direct feed flow rate of 5000 lbs/hr for 10 seconds;
- Low Btu from Tank Farm III or direct feed flow rate of 6000 lbs/hr following the first 30 seconds of waste feed.

An alarm will be actuated whenever the Low Btu from Tank Farm III or direct feed flow rate is 5000 lbs/hr. Liquid flow rates to the incinerator are continuously monitored by the Control Room Operator. Should the automatic cutoff system not actuate when exceeding one of the liquid feed cutoff limits above, the Operator will take corrective measures to assure that waste feed is cutoff at the location of the upset condition.

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# Attachment C–Module I(A)
# Incinerator Operating Parameter Monitoring Systems and Frequencies

| Parameter and Monitoring Location | Monitoring System | Monitoring Frequency | Calibration Frequency | Backup Monitoring System[1] | Backup Mon. Frequency |
|---|---|---|---|---|---|
| Quench water supply pressure | Manual Reading | Daily | N/A | N/A - See Note 2 | N/A |
| Radial Flow Water Supply Pressure | Manual Reading | Daily | N/A | N/A - See Note 2 | N/A |
| Contactor Water Supply Pressure | Manual Reading | Daily | N/A | N/A - See Note 2 | N/A |
| Cooling Tower Pump Discharge Temperature | Temperature Indicator | Continuously | N/A | N/A - See Note 2 | N/A |
| Burner Atomizing Air Pressure Ounces | Pressure transmitters | Continuous | Manufacturers Recommend. | WFCO | N/A |
| Burner Fuel Pump Pressure PSIG | Pressure transmitters | Every 8 Hours | Manufacturers Recommend. | NA | NA |
| Static Pressure at MC (negative in. water column) | Draft pressure transmitters | Continuous | Semi-annually | WFCO[3] | N/A |
| Static Pressure at Kiln (negative in. water column) | Draft pressure transmitters | Continuous | Semi-annually | WFCO[3] | N/A |
| Quench/cyclone Discharge temperature | Redundant Temp. Indicators | Continuous | Manufacturers Recommend. | WFCO[3] | N/A |
| Gas/Liquid Contactor Discharge temperature | Temperature Indicator | Continuous | Manufacturers Recommend. | N/A - See Note 2 | N/A |
| Stack gas flow rate | CEMS | Continuous | Daily/Annual RATA | ID fan amperage | Continuously |
| Carbon Monoxide | CEMS | Continuous | Daily/Annual RATA | WFCO[3] | N/A |
| Oxygen | CEMS | Continuous | Daily/Annual RATA | N/A | N/A |
| APC Water Return Tank pH | Redundant pH monitors | Continuously | Manufacturers Recommend. | Manual readings | Hourly |
| Gas-liquid Contactor discharge | Redundant pH monitors | Continuously | Manufacturers Recommend. | WFCO | N/A |
| Quench recirculation water flowrate | scrubber water flow meter | Continuous | Manufacturers Recommend. | Cooling tower pumps amps | Continuous |
| Radial Scrubber recirculation Flow Rate | scrubber water flow meter | Continuous | Manufacturers Recommend. | Cooling tower pumps amps | Continuous |
| Gas-Liquid Contactor recirculation Flow Rate | scrubber water flow meter | Continuous | Manufacturers Recommend. | Cooling tower pumps amps | Continuous |
| WESP Power Unit 1: voltage (kV) and current (mA) | Current/voltage transducer | Continuous | Manufacturers Recommend. | Manual | Hourly |
| WESP Power Unit 2: voltage (kV) and current (mA) | Current/voltage transducer | Continuous | Manufacturers Recommend. | Manual | Hourly |
| Kiln Temperature | Redundant Thermocouples | Continuous | Semi-annually | WFCO[3] | N/A |
| Main Chamber Temperature | Redundant Thermocouples | Continuous | Semi-annually | WFCO[3] | N/A |
| Waste Feed Rate (Liquid) | Micro-motion Meters | Continuous | Semi-annually | N/A | N/A |
| Waste feed rate (Solid) | Scales | N/A | Semi-annually | N/A | N/A |
| Bypass fuel rate | Micro-motion Meters | Continuous | Semi-annually | N/A | N/A |
| Radial Flow Scrubber Pressure Drop | Differential Press Transmitter | Continuous | Manufacturers Recommend. | Manual Readings | Hourly |

1 Primary and backup monitoring systems will not be employed simultaneously. Backup monitoring systems will only be employed when primary systems are inoperable.
2 No associated permit parameter condition applicable.
3 WFCO System is tested on a weekly basis.

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## MODULE J - GROUND-WATER DETECTION MONITORING

### J.1 MODULE HIGHLIGHTS

This module addresses the ground water monitoring program associated with Surface Impoundment SWI 7 at Ross Incineration Services. This unit is being monitored during the post-closure period that began in 2004. Surface Impoundment SWI 7 was closed with waste-in-place and is subject to post-closure ground water monitoring.

### J.2 Well Location, Installation and Construction
OAC Rule 3745-54-97

The Permittee shall install, as needed, and maintain a ground water monitoring system as specified below:

(a) The Permittee shall maintain the ground water monitoring wells as shown on Figure 1 in Section E of the approved permit application, which is part of the Ground Water Detection Monitoring System required to comply with OAC rules 3745-54-97(A), (B) and (C), in accordance with the detailed plans and specifications presented in Section E of the approved permit application and in conformance with the following list:

| Zone Monitored | Background Wells | Downgradient Wells |
|---|---|---|
| Till | SI-8<br>MW-16<br>MW-17 | MW-11B, MW-21B, MW-23B, MW-32, MW-33 |
| Berea Sandstone | MW-2<br>MW-5 | MW-11A<br>MW-24A<br>MW-25A |

The ground water monitoring system must: yield samples in upgradient wells that represent the quality of the background ground water unaffected by leakage from any regulated unit(s), and in downgradient wells yield samples that represent the quality of water passing the point of compliance. The number and location of monitoring wells must be sufficient to identify and define all logical release pathways to the uppermost aquifer from the regulated units based on site-specific hydrogeologic characterization.

(b) The Permittee shall remove or replace any monitoring well identified in permit Condition J.2(a) in accordance with the permit modification process set forth in OAC Rule 3745-50-51. Each change must be accompanied by a revised map as specified on Figure 1 of Section E of the approved permit application for permit Condition J.2(a).

(c) All wells removed or replaced in accordance with permit Condition J.2(b) shall be properly plugged and abandoned. Well plugging and abandonment methods, certification, and justification shall be submitted to the Director through the permit modification process in OAC Rule 3745-50-51.

(d) Whenever any of the wells specified in permit Condition J.2(a) are replaced, the Permittee must demonstrate to Ohio EPA that the ground water quality at the replacement well meets the criteria in permit Condition J.2(a) within a two year period of the date of replacement using means appropriate to the reason for replacement.

(e) The Ground Water Detection Monitoring System that complies with OAC Rule 3745-54-97(A), (B), and (C) shall include a table of unique identifiers for each well (both upgradient/background and downgradient/ compliance wells), zone monitored, and hydrogeologic gradient from the unit(s) as well as the surveyed ground surface elevation of all monitoring wells.

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J.3 Indicator Parameters and Monitoring Constituents
OAC Rule 3745-54-98

(a) The Permittee shall monitor all the wells listed in permit Condition J.2(a) for the parameters and constituents identified in Section E of the approved permit application which meet the requirements of OAC Rule 3745-54-98(A) as follows:

| Ground Water Parameters per GWMP | |
|---|---|
| Antimony | Mercury |
| Arsenic | Nickel |
| Barium | Selenium |
| Beryllium | Silver |
| Cadmium | Thallium |
| Chromium | Tin |
| Cobalt | Vanadium |
| Copper | Zinc |
| Lead | TOC |
| | TOX |

(b) Establishing Background

Background values for the parameters and constituents in Permit Condition J.3(a) previously established and the proposed methods for gathering background for TOX and TOC in Section E of the approved permit application shall be used. When a program well identified in Figure 1 of Section E of the approved permit application is replaced, or for those parameters and constituents in Permit Condition J.3(a) which include parameters and constituents required by OAC Rule 3745-54-98(A) for which no background values are established at the time the permit is issued, the Permittee shall establish background values in accordance with the following procedures:

(i) During each sampling event, the Permittee shall take a minimum of one sample from each well (background and compliance point wells), and analyze for each parameter or constituent specified in the permit. Background ground water quality for a monitoring parameter or constituent may be based on a sequence of four samples, taken at a quarterly interval that assures, to the greatest extent technically feasible, that an independent sample is obtained of the background well(s), or

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(ii) A background database shall be compiled for each constituent and/or parameter using an alternate sampling procedure specified in the permit modification request and approved by Ohio EPA.

(c) Updating Background

Section E of the approved permit application includes a collection of background data in accordance with permit condition J.3(b) and OAC Rule 3745-54-97(G). Furthermore, Section E provides procedures for development of background concentrations in accordance with OAC Rule 3745-54-97(H) and (I). Moreover, Section E contains procedures for updating the background concentration when a program well identified in Figure 1 of Section E of the approved permit application is replaced or if the Permittee determines that a background data set no longer meets the standards in OAC Rule 3745-54-98(G). Background data provided in Section E of the approved application and background data collected in accordance with permit condition J.3(b) and OAC 3745-54-97(G)(1) and (2), for the establishment of background concentrations developed in accordance with OAC rule 3745-54-97 (H) and (I), may be updated in accordance with the procedures in Section E of the approved application. Compliance with OAC Rule 3745-54-98(G, H and I) may be facilitated by adherence to the following:

(i) Background is not updated with less than 4 new data points at any one time;

(ii) The new background (previous background data plus new background data) should be checked for slowly increasing trends. If a slowly increasing trend is identified then the background should not be updated unless concurrence from Ohio EPA is received that it has been adequately demonstrated that the increasing trend is not the result of a release from the regulated unit;

(iii) Background updates should be accumulative and not a moving window, unless a trend is identified in the background data. As required in permit Condition J.3(c)(ii), the identified trends would have to be adequately demonstrated to not be the result of a release from the regulated unit otherwise the background update would not be permitted; and

(iv) When a trend in background data has been identified and it has been adequately demonstrated to not be the result of a release from the regulated unit, then a moving window background should be used. The size of the moving window will be dependent upon the rate of change and the best balance between background size and variance.

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J.4 Sampling and Analysis Procedures
OAC Rule 3745-54-97(D) and (E)

The sampling and analysis techniques and procedures in Section E of the approved permit application are in accordance with the requirements of OAC Rule 3745-54-97(D and E). The Permittee shall use the following techniques and procedures when obtaining and analyzing samples from the groundwater monitoring wells identified in J.2(a):

(a) Ground water elevations shall be measured using techniques outlined in Section E of the approved permit application.

(b) The well shall be checked for the presence of immiscible layers prior to purging in any monitoring well or wells where the presence of dissolved concentrations of any GWMP parameter has been confirmed and indicates that immiscible layers could be present as outlined in Section E of the approved permit application.

(c) Samples shall be collected and handled (including well evacuation, sample withdrawal, preservation, containerization, filtration, and shipment) using the techniques and equipment described in Section E of the approved permit application.

(d) Field analysis shall be performed using instruments, procedures, and forms described in Section E of the approved permit application. Instruments shall be calibrated as described in Section E of the approved permit application. At a minimum, calibrations shall be according to manufacturer's recommendations.

(e) Sampling equipment shall be decontaminated using the techniques described in Section E of the approved permit application.

(f) Purge water shall be disposed in accordance with the procedures described in Section E of the approved permit application.

(g) Laboratory analytical methods, detection limits and sample holding times shall be in accordance with techniques described in Section E of the approved permit application.

(h) Quality assurance, including field/lab/equipment blanks, duplicate samples and identification of potential interferences, shall be accomplished in accordance with the methods described in Section E of the approved permit application.

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(l) Chain of custody procedures, including standardized field tracking reporting forms, and sample labels, shall be implemented in accordance with Section E of the approved permit application.

J.5 Elevation of the Ground-Water Surface

(a) The Permittee shall determine the elevation of the ground water surface at each program well identified in Permit Condition J.2(a) each time the ground water is sampled in accordance with Section E of the approved permit application.

(b) The Permittee shall utilize methods, procedures, and results specified in Section E of the approved permit application for surveying the ground surface elevation of all monitoring wells included in Permit Condition J.2(a).

(c) The Permittee shall record the total depth of any wells installed in accordance with permit Condition J.2 and the surveyed elevation of the top of casing, ground surface and/or apron elevation, and the protective casing of the monitoring well(s) within 90 days of the date of installation (with as-built drawings).

J.6 Statistical Procedures
OAC Rules 3745-54-97 (G),(H) and (I) and 3745-54-98(F)

When evaluating the monitoring results in accordance with Permit Condition J.7, the Permittee shall use the statistical methods and procedures in Section E of the approved permit application which include the following elements of identifying statistically significant evidence of contamination in accordance with OAC Rule 3745-54-97(G), (H) and (I):

(a) The Permittee shall use an appropriate statistical procedure for determining whether a statistically significant change has occurred.

Any statistical method that is chosen must comply with the following performance standards as appropriate:

(i) The statistical method shall utilize a sample size appropriate for the form of statistical test employed and large enough to ensure with reasonable confidence that a contaminant release to the ground water from the facility will be detected.

(ii) The statistical procedure must be protective of human health and the environment and provide reasonable confidence that the migration of hazardous constituents from a regulated unit into and through the aquifer will be indicated.

(iii) The statistical method must be used in evaluating ground water monitoring data for each hazardous constituent specified in permit Condition J.3(a).

(iv) The statistical method must be appropriate for the distribution of the data used to establish background or concentration limits. If the distribution for the constituents differ, more than one statistical method may be needed.

(v) The statistical method must provide a reasonable balance between the probability of falsely identifying a non-contaminating regulated unit and the probability of failing to identify a contaminating regulated unit.

(vi) The statistical method shall account for data below the limit of detection with one or more statistical procedures that are protective of human health and the environment. Any practical quantitation limit (PQL) approved in the permit that is used in the statistical method shall be the lowest concentration level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions that are available to the facility. Compliance may be facilitated by referring to the methods outlined in the most recent version of SW-846.

(vii) If necessary, the statistical method shall include procedures to control or correct for seasonal and spatial variability as well as temporal correlation in the data.

(viii) If a tolerance or prediction interval procedure is utilized, the levels of confidence and, for tolerance intervals, the percentage of the population that the interval must contain, shall be approved in the permit in Condition J.6(b). These parameters must be determined

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after considering the number of samples in the background data base, the data distribution, and the range of concentration values for each constituent of concern.

(b) The Permittee shall choose and submit to Ohio EPA the appropriate statistical method within 90 days of the last background sampling event.

J.7 Monitoring Program and Data Evaluation

(a) The Permittee shall follow the post-closure ground water protection program in Section E of the approved permit application, as modified by permit Condition B.35(a), and the following conditions.

(i) In addition to the parameters in Permit Condition J.3(a), the Permittee shall collect samples for chloride from all wells listed in Permit Condition J.2(a) during each sampling event.

(ii) TOX specific: The Permittee shall use an approved statistical procedure for determining whether a statistically significant TOX increase has occurred. If a statistical increase in TOX is confirmed, then the Permittee shall have the laboratory analyze the chloride sample taken from the affected well or wells, otherwise chloride samples will not be analyzed. The Permittee shall use the chloride concentration data to evaluate the potential for chloride interference in the analytical methodology.

(iii) TOX specific: If elevated chloride concentrations are found to act as a laboratory interfering agent, then no further response will be necessary by the Permittee. However, if chloride is determined not to be an interfering agent, the Permittee shall immediately resample the affected well(s) for TOX and chloride, and reanalyze per Permit Condition J.7(a)(ii).

(iv) TOX specific: If following the re-sample, elevated chloride concentrations are found to act as a laboratory interfering agent, then no further response will be necessary by the Permittee. However, if chloride is determined not to be an interfering agent, the Permittee

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shall sample and analyze the affected well(s) for VOCs (SW-846 Method 8260B), SVOCs (SW-846 Method 8270), and chloride to evaluate any potential impact to ground water from the land-based units.

(v) TOC-Specific: The Permittee shall use an approved statistical procedure for determining whether a statistically significant TOC increase has occurred. If a statistical increase in TOC is confirmed through a resample, then the Permittee shall immediately sample and analyze the affected well(s) for VOCs (SW-846 Method 8260B) and SVOCs (SW-846 Method 8270) to evaluate any potential impact to ground water from the land-based units.

(vi) If the results of the initial sampling for metals, VOCs or SVOCs indicate contamination, then the Permittee shall follow the response requirements in Permit Condition J.10. If the results are non-detect for the VOCs/SVOCs or do not indicate a statistically significant difference for the metals, then the Permittee may remain in Detection Monitoring.

(b) The Permittee shall implement the post-closure ground water protection program in Section E of the approved permit application, as modified by permit Condition B.35(a), by May 1, 2005.

(c) The Detection Ground Water Monitoring Program, referenced in permit Condition J.7(b), must be able to determine with reasonable confidence whether any hazardous constituents have entered the ground water as a result of activities from the unit/area covered by this permit. The Permittee shall determine ground water quality as follows:

(I) The Permittee shall collect, preserve, and analyze samples pursuant to Permit Condition J.4.

(ii) The Permittee shall determine ground water quality at each monitoring well annually during the post-closure care period of the regulated units, except that sampling and analysis for new monitoring wells MW-32 and MW-33 shall be conducted on the following schedule: quarterly for the first two years, then semi-annually for five years, then annually.

(iii) The Permittee shall express the ground water quality at each monitoring well in a form necessary for the determination of statistically significant increases.

(iv) The Permittee shall determine the ground water flow rate and direction in the uppermost aquifer at least annually.

(v) The Permittee shall determine whether there are any statistically significant increases over the background values for all parameters identified in permit Condition J.3(a) each time ground water quality is determined at the compliance point. In determining whether such an increase has occurred, the Permittee must compare the ground water quality at each monitoring well specified in permit Condition J.2(a) to the background ground water quality specified in permit Condition J.3(b) or other statistical limit approved by the director, in accordance with the statistical procedures specified in permit Condition J.6. If there is a confirmed detection of any of the parameters listed in permit Condition J.3(a), then the Permittee shall take the response actions and fulfill the requirements of permit Condition J.10 regarding statistical evidence of contamination.

(vi) The Permittee shall perform the evaluations described in permit Condition J.7(c)(v) within 90 days after completion of sampling.

J.8. Recordkeeping and Reporting
OAC Rule 3745-54-97(J)

(a) Operating Record
OAC Rules 3745-54-73(B)(5) and (6), 3745-54-97(J) and 3745-54-98(C)

Ohio EPA may request a copy of the full Quality Assurance/Quality Control (QA/QC) report for a particular sampling event if circumstances warrant, but in general QA/QC data will not be required except as described below. The Permittee shall enter all of the following information obtained in accordance with permit Conditions J.5 and J.7 in the operating record, as required by OAC Rules 3745-54-73(B)(5) and (6), 3745-54-97(J) and 3745-54-98(C):

(i) The laboratory results from each of the wells and their associated qualifiers including the laboratory sheets for the full volatile and semi-volatile analyses (must include method codes, detection limits, and units of measurement);

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(ii) The date each well was sampled (tabulated);

(iii) The date, time, and identification of all blanks and duplicates;

(iv) Any field log documentation of deviation from the procedures in the Part B permit application or the Sampling and Analysis Plan (SAP), including documentation of parameter omissions during the sampling event.

(v) The date the Permittee received the results from the laboratory;

(vi) The date the owner or operator completed their review of the analytical laboratory's verification of the accuracy and precision of the analytical data and determined its quality. This review shall be based upon the elements in permit Condition J.8.(a)(vii);

(vii) The results of the data validation review per permit Condition J.8(a)(vi) including: report completeness, chain of custody, sample receipt form, signed statement of validity, technical holding time review, data qualifiers including their definitions, dilutions, blank data, spikes, spike recovery %, surrogate recovery, and an explanation of any rejected results consistent with the U.S. EPA and Ohio EPA guidelines for data review;

(viii) Results of all blanks and duplicates (trip, field, equipment, and method);

(ix) Results of the field parameters;

(x) All chains of custody;

(xi) The date the statistical evaluation was completed;

(xii) The statistical evaluation of the data according to the statistical tests(s) that the Director has specified (must include all computations and results of statistical tests) OAC Rules 3745-54-73(B)(6), 3745-54-97(J) and 3745-54-98(C);

(xiii) Any change in well status (i.e., going from unaffected to affected status and vice versa);

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(xiv) Ground water surface elevations taken at the time of sampling each well as required by OAC Rule 3745-54-73(B)(6);

(xv) Data and results of the annual determination of the ground water flow rate and direction as required by OAC Rule 3745-54-73(B)(6); and

(xvi) The results of the last three years of all inspections required under OAC Rule 3745-54-15(D) related to ground water monitoring and equipment as required under OAC Rule 3745-54-73(B)(5).

(b) All established background values and the computations necessary to determine background values must be included in the operating record and submitted in Section E of the approved permit application. For any background value not included in the permit modification, the Permittee shall submit the analytical results, an appropriate statistical method, and the statistical calculations within 90 days of the completion of the last background sampling event.

(c) Annual & Other Periodic Required Reports
OAC Rules 3745-54-75 and 3745-54-97(J)

The Permittee must submit an annual report to the Director by March 1st or the first business day thereafter if this falls on a weekend. The annual report must reference the titles and dates of any other periodic reports required by the permit or any updates to those reports (for example, due to confirmation sampling, comments by Ohio EPA, etc.), but generally do not need to include duplicates of hard copies previously submitted. The annual report must include, at a minimum, the analytical results required by permit Conditions J.7(c)(ii), the ground water elevation data required by permit Condition J.5(a), the annual flow rate and direction required by permit Condition J.7(c)(iv), and the results of the initial statistical analyses required by permit Condition J.7(c)(v). In addition, a copy on disk of all ground water and blank data must be submitted electronically in the format supplied by the Director, a hard copy of well-specific information (location [latitude and longitude], depth, construction, etc.) for any new/replacement wells, and any other information specified in the instructions for the annual report not addressed in this permit Condition must be submitted by March 1st of the subsequent year as required by OAC Rule 3745-54-75.

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(d) Other Reports
OAC Rule 3745-54-77(C)

The Permittee shall comply with any reporting requirements that become necessary under permit Condition J.10 in accordance with the schedules in the regulations covered by that permit Condition and as required by OAC Rule 3745-54-77(C). If any of these dates falls on a weekend, the reports will be due no later than the following business day. Re-sampling reports must include the same types of information as the initial reports pertaining only to the re-sampled well(s).

J.9 Assurance of Compliance
OAC Rules 3745-54-92 and 3745-54-98

The Permittee shall assure the Director that during the term of the permit the ground water monitoring program will ensure the earliest possible detection of contamination leakage from the regulated units, that any contamination leakage will be characterized, and that the need for further action will be determined.

J.10 Special Requirements if Significant Increases Occur in Values for Parameters or Constituents
OAC Rule 3745-54-98(G)

If the Permittee has determined a statistically significant increase in any of the metals identified in Permit Condition J.3(a) in accordance with statistical procedures specified in Permit Condition J.6 and J.7, or a detection above the method detection limit for any VOCs or SVOCs identified in Permit Condition J.7(a)(iv) and J.7(a)(v), the Permittee must:

(a) Notify the Director in writing, within seven (7) days of that determination. The notification must indicate what parameters or constituents have shown statistically significant increases (metals) or detection above method detection limits (VOCs/SVOCs) and the corresponding analytical results.

(b) Within 30 days re-sample the ground water in the affected well(s) in Permit Condition J.2(a) and determine the concentration of well-specific parameters listed in Permit Condition J.10(a).

(c) If the results of the resample confirm the initial results for metals, VOCs, or SVOCs or if the Permittee elects not to re-sample, then the detected compounds form the basis for compliance monitoring. If the re-sampling

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results are non-detect for the VOCs/SVOCs or do not indicate a statistically significant difference for the metals, then the Permittee may remain in Detection Monitoring.

(d) Within 90 days of confirming a statistically significant increase in metals or a VOC/SVOC detection above method detection limits, submit to the Director an application for a permit modification to establish a compliance monitoring program. The application must include the following information:

(i) An identification of the concentration of each metal, VOC or SVOC detected in the ground water at each monitoring well at the point of compliance.

(ii) Any proposed changes to the ground water monitoring system at the facility necessary to meet the requirements of compliance monitoring under OAC Rule 3745-54-99.

(iii) Any proposed changes to the monitoring frequency, sampling and analysis procedures or methods or statistical procedures used at the facility necessary to meet the requirements of compliance monitoring and the Ground Water Protection Standard.

(iv) For each hazardous constituent detected at the compliance point, a proposed concentration limit under OAC Rule 3745-54-94(A) or a notice of intent to seek an alternate concentration limit for a hazardous constituent under OAC Rule 3745-54-94(B).

(v) The Permittee shall begin sampling and analyzing for the new constituents at the next regularly scheduled sampling event following the event in which they were determined to be present.

(e) Submit to the Director an engineering feasibility plan (EFP) for corrective action and all data necessary to satisfactorily justify an alternate concentration limit (ACL) within 180 days of determining a statistically significant increase, unless the concentrations of all hazardous constituents identified under permit Condition J.10(b) do not exceed the respective values listed in Table 1 of OAC Rule 3745-54-94 (or their respective MCLs), or the Permittee has sought an ACL variance for every hazardous constituent identified under permit Condition J.10(b). If the Permittee's ACL request is denied, Ohio EPA will specify a time frame for submittal of the EFP.

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(f) If the Permittee determines, pursuant to Permit Condition J.7(c)(v), that there is a statistically significant increase above the background values for the hazardous parameters specified in Permit Condition J.3(a), he may demonstrate that a source other than a regulated unit caused the increase or that the increase resulted from error in sampling, analysis, or evaluation or natural variation in the ground water. In such cases, the Permittee shall:

(i) Notify the Director in writing within seven (7) days of determining a statistically significant increase that he intends to make a demonstration.

(ii) Within 90 days of determining a statistically significant increase, submit a report to the Director which successfully demonstrates that a source other than a regulated unit caused the increase, or that the increase resulted from error in sampling, analysis, or evaluation.

(iii) Within 90 days of determining a statistically significant increase, submit to the Director an application for a permit modification to make any appropriate changes to the detection monitoring program at the facility.

(iv) The Permittee may make this demonstration in addition to, or in lieu of, submitting a permit modification application for a compliance ground water monitoring program under OAC Rule 3745-54-99. However, the same period of ninety (90) days is required for both a successful "Other Source Demonstration" and the submittal of the permit modification application for compliance ground water monitoring. The Permittee is not relieved of the ninety (90) day requirement for submitting a permit modification unless the "Other Source Demonstration" is deemed successful by Ohio EPA prior to the ninety (90) day time limit.

(v) Continue to monitor in accordance with the detection monitoring program at the facility.

J.11 Request for Permit Modification
OAC Rule 3745-54-98(H)

If the Permittee or the Director determines the detection monitoring program no longer satisfies the requirements of the regulations, the Permittee must, within 90 days of the determination, submit the date of that determination and an application

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for a permit modification to make any appropriate changes to the program which will satisfy the regulations.

Nothing in this permit shall limit Ohio EPA from requiring additional ground water protection requirements in the Permittee's corrective action program or in any post-closure permit issued to the Permittee.

**END OF PERMIT CONDITIONS**

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