OHIO ENVIRONMENTAL PROTECTION AGENCY

OHIO HAZARDOUS WASTE FACILITY INSTALLATION AND OPERATION PERMIT RENEWAL

Permittee: PPG Industries Ohio, Inc.
PPG Industries, Inc.

Mailing Address: 559 Pittsburgh Road
Circleville, Ohio 43113

Owner: PPG Industries Ohio, Inc.
559 Pittsburgh Road
Circleville, Ohio 43113

Co-Operators: PPG Industries Ohio, Inc.
559 Pittsburgh Road
Circleville, Ohio 43113

PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272

Location: PPG Industries Ohio, Inc.
559 Pittsburgh Road
Circleville, Ohio 43113

Ohio Permit No.:	01-65-0641
US EPA ID:	OHD 004 304 689
Issue Date:	12/29/2006
Effective Date:	12/29/2006
Expiration Date:	12/29/2016

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

By: _____ Date: 12/29/06

AUTHORIZED ACTIVITIES

In reference to the application of PPG Industries Ohio, 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:

- **Hazardous Waste Treatment (blending in tanks and rotary kiln incineration)**
- **Hazardous Waste Storage in tanks and containers**

PERMIT APPROVAL

Joseph P. Koncelik, Director
Ohio Environmental Protection Agency

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ENTERED DIRECTOR'S JOURNAL

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 29 day of DECEMBER, 2006.

By _____ of the Ohio Environmental Protection Agency.

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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 by incineration in accordance with the terms and conditions of this Ohio hazardous waste permit (hereinafter "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 permit application. The permit application, as submitted to Ohio EPA on January 12, 1993 and resubmitted on May 10, 2004 and last updated on September 5, 2006, is hereby incorporated into this permit. In the instance of inconsistent language or discrepancies between the above, the language of the more stringent provision shall govern.

(b) Any management of hazardous waste not authorized by this permit is prohibited, unless otherwise expressly authorized or specifically exempted by law. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, or invasion of other private rights. Compliance with the terms and conditions of this permit does not obviate Permittee's obligation to comply with other applicable provisions of law governing protection of public health or the environment including but not limited to the Community Right to Know law under ORC Chapter 3750.

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

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

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

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

A.4 Severability

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

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

The Permittee must 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 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(D), 3745-50-58(B), 3745-50-56 and ORC Section 3734.05(H)

(a) If the Permittee wishes to continue an activity allowed by this permit after the expiration date of this permit, the Permittee must submit a completed permit 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 prior to the expiration date of this permit, unless a later submittal date has been authorized by the Director upon a showing of good cause.

(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 permit application for a renewal permit under OAC Rule 3745-50-40; and

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(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 renewal 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) a later submittal date has been authorized by the Director.

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 must take all reasonable steps to minimize releases to the environment and must carry out such measures as are reasonable to prevent significant adverse impact on human health or the environment resulting from noncompliance with this permit.

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

The Permittee must 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 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.

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

The Permittee must furnish to the Director, within a reasonable time, any relevant information which the Director may request to determine whether cause exists for modifying or revoking, or to determine compliance with, this permit. The Permittee must also furnish to 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) and 3745-50-30, and ORC Section 3734.07

(a) The Permittee must 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

(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)

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(a) Any sample and measurement taken for the purpose of monitoring must be representative of the monitored activity. Further, a sample must be a representative sample, 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, EPA Publication SW-846, Third Edition (November 1986), as amended by Updates I (dated July 1992), II (dated September 1994), IIA (dated August 1993), IIB (dated January 1995), III (dated December 1996) and IIIA (dated April 1998), 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 approved waste analysis plan, or as this term is defined and used in the Ohio hazardous waste rules.

(b) Records of monitoring information must specify the:

(i) date(s), exact place(s), and time(s) of sampling or measurements;

(ii) individual(s) who performed the sampling or measurements;

(iii) date(s) analyses were performed;

(iv) individual(s) who performed the analyses;

(v) analytical technique(s) or method(s) used; and

(vi) results of such analyses.

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

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

A.14 Retention of Records and Information Repository
OAC Rules 3745-50-40(G), 3745-50-58(J), 3745-50-58(M) and 3745-50-58(N)

(a) The Permittee must retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports and records

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required by this permit, the certification required by OAC Rule 3745-54-73(B)(9), 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. The Permittee must retain a complete copy of the current application for the effective life of the permit as indicated in Permit Condition A.3..

(d) The Permittee must 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) The director may require the Permittee to establish and maintain an information repository at any time, based on the factors set forth in OAC rule 3745-50-39(C)(2). The information repository will be governed by the provisions in OAC rules 3745-50-39(C)(3) through (C)(6).

(f) Corrective Action records must be maintained at least three (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 must give notice to the Director as soon as possible of any planned physical alterations or additions to the facility. All such changes must be made in accordance with OAC Rule 3745-50-51.

A.16 Waste Shipments
OAC Rule 3745-53-11, ORC Section 3734.15(C)

The Permittee must 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)

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The Permittee must 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 Permit Condition A.5.

A.18 Transfer of Permits
OAC Rules 3745-50-52, 3745-50-58(L)(3) and 3745-54-12

(a) 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 must 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).

(b) The Permittee's failure to notify the new owner or operator of the requirements of the applicable Ohio law or hazardous waste rules does not relieve the new owner or operator of its obligation to comply with all applicable requirements.

A.19 Compliance Reports
OAC Rules 3745-50-58(L)(5) and 3745-50-50

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule (developed in accordance with OAC Rule 3745-50-50) of this permit must 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 must report orally to Ohio EPA's Division of Emergency and Remedial Response within twenty-four (24) hours from the time the Permittee becomes aware of any noncompliance with this permit, ORC Chapter 3734 or the rules adopted thereunder, which may endanger 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

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or explosion from the hazardous waste facility, which could threaten the environment or human health outside the facility.

(b) The report must 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) date, time, and type of incident;

(iv) name and quantity of material(s) involved;

(v) the extent of injuries, if any;

(vi) an assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and

(vii) 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 must also be provided to Ohio EPA's Division of Emergency and Remedial Response and the Division of Hazardous Waste Management, Central District Office within five (5) days of the time the Permittee becomes aware of the circumstances reported in Permit Condition A.20.

(b) The written report must address the items in Permit Condition A.20 and must 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.

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A.22 Other Noncompliance
OAC Rules 3745-50-58(L)(10) and 3745-50-58(L)(4)

The Permittee must report to the Director all other instances of noncompliance not provided for in Permit Conditions A.19 and A.20. These reports must be submitted within thirty (30) days of the time at which the Permittee is aware of such noncompliance. Such reports must contain all information set forth within Permit Condition A.20.

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 information to the Director, the Permittee must promptly submit such facts, information or corrected information to the Director.

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, or any information obtained by the Director, or an authorized representative, pursuant to the authority provided under Permit Condition A.11.

A.26 Ohio Annual Permit, Disposal, and Treatment Fees
OAC Rules 3745-50-33 through 3745-50-36

The annual permit fee, calculated pursuant to OAC Rule 3745-50-36 and payable to the Treasurer of the State, must 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
OAC Rules 3745-50-50 and 3745-50-51

(a) Unless specified otherwise, Permittee must submit the documents listed below to:

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

Ohio EPA, DHWM
Attn: Regulatory and Information Services Section
P.O. Box 1049
Columbus, Ohio 43216-1049

Ohio EPA, Central District Office, DHWM
P.O. Box 1049
Columbus, Ohio 43216-1049

(b) The Permittee must submit for approval to the Ohio EPA within thirty (30) days after permit journalization:

(i) An amended permit application updated to remove reference inconsistencies introduced with submission of reformatted renewal permit application in April 2006. The updated permit application is to be submitted as a Class 1 modification requiring director's prior approval in accordance with OAC rule 3745-50-51.

(ii) An amended permit application to correct inconsistent language on page D-15 Section D-2. The updated permit application is to be submitted as a Class 1 modification in accordance with OAC rule 3745-50-51

(c) The Permittee must submit to the Ohio EPA within sixty (60) days after permit journalization, in accordance with Ohio's hazardous waste rules, the following information to be incorporated in the permit application:

(i) Updated Closure/Post-Closure Cost Estimate
OAC Rules 3745-55-42 and 3745-55-44

Section I of the permit application containing the financial assurance mechanism for closure must be updated to include a copy of the current closure/post-closure cost estimate as set forth in OAC Rules 3745-55-42 and 3745-55-44.

(ii) Updated Financial Assurance Mechanism for Closure
OAC Rules 3745-55-43

Section I of the permit application containing the financial assurance mechanism for closure must be updated to include a copy of the current financial assurance mechanism, as set forth in OAC Rule

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3745-55-43, and as specified by the wording requirements of OAC Rule 3745-55-51. The value of the financial assurance mechanism must reflect at least the current amount of the closure/post-closure cost estimate.

During the life of the permit the facility may change the financial assurance mechanism as stated in OAC Rule 3745-55-43. The facility must submit the financial assurance mechanism documentation to the Director of Ohio EPA in accordance with the parameters set forth in OAC Rule 3745-55-43.

(iii) Updated Liability Requirements
OAC Rule 3745-55-47

Section I of the permit application containing the mechanism used to demonstrate third-party liability coverage must be updated to include a copy of the current liability mechanism as set forth in OAC Rule 3745-55-47 and as specified by the wording requirements of OAC Rule 3745-55-51.

During the life of the permit the facility may change the mechanism used to demonstrate liability coverage as stated in OAC Rule 3745-55-47. The facility must submit the liability mechanism documentation to the Director of Ohio EPA in accordance with the parameters set forth in OAC Rule 3745-55-47.

This information must be submitted in accordance with OAC Rule 3745-50-51.

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

(a) Unless otherwise specified by the hazardous waste rules, the Permittee must 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 3745-55-43, 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;

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(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, 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; and

(vii) inspection schedules, developed in accordance with OAC Rules 3745-54-15, 3745-55-74 and 3745-55-95 and the terms and conditions of this permit.

(viii) Reserved

(ix) annually-adjusted cost estimate for facility closure, as required by OAC Rules 3745-55-42 and 3745-55-44 and the terms and conditions of this permit.

(x) all other documents required by Module A, Permit Condition A.12 .

(b) The Permittee must maintain copies of all inspection logs at the facility for a period not less than three (3) years from the date of inspection.

A.29 Waste Minimization Report
OAC Rules 3745-54-73 and 3745-54-75

(a) The Permittee must submit a Waste Minimization Report describing the waste minimization program required by OAC Rules 3745-54-75(H), (I), and (J); 3745-54-73(B)(9); and 3745-52-20(B) at least once every two years. The provisions of OAC Rules 3745-54-75(H), (I) and (J); and 3745-54-73(B)(9) must be satisfied annually.

(b) The Permittee must submit the Waste Minimization Report to Ohio EPA's Office of Compliance Assistance and Pollution Prevention within one hundred eighty (180) days of the effective date of this permit, and must submit updates to this report biennially thereafter.

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MODULE B - GENERAL FACILITY CONDITIONS

B. GENERAL FACILITY CONDITIONS

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

(a) The Permittee must 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 or hazardous waste constituents to air, soil, ground water or surface waters which could threaten human health or the environment.

(b) The Permittee must not accept more than 34,900 tons of hazardous waste in any one calendar year from off-site sources during the life of the permit, until such time as this permit condition is modified or renewed. This is a facility wide limitation and includes all units.

B.2 Reserved

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

(a) Before an owner or operator treats, stores, or disposes of any hazardous wastes, or nonhazardous wastes if applicable under OAC Rule 3745-55-13(D), he must obtain a detailed chemical and physical analysis of a representative sample of the wastes. At a minimum, this analysis must contain all the information which must be known to treat, store, or dispose of the waste in accordance with the requirements of Chapters 3745-54 to 3745-57, 3745-205, and 3745-270 of the Administrative Code.

(b) The Permittee must follow the procedures described in the waste analysis plan found in Section C of the permit application and the terms and conditions of this permit.

(c) The Permittee must verify the analysis of each waste stream annually as part of its quality assurance program, in accordance with Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA Publication SW-846, or equivalent methods approved by the Director. At a minimum, the Permittee must maintain proper functional instruments, use approved sampling and analytical methods, verify the validity of sampling and analytical procedures, and perform correct calculations. If the Permittee

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uses a contract laboratory to perform analyses, then the Permittee must inform the laboratory in writing that it must operate under the waste analysis conditions set forth in this permit.

(d) The Permittee may accept for storage and treatment only those wastes which meet all the following criteria:

(i) The wastes must be generated by the Permittee;

(ii) The wastes must be identified in the process-related waste families portion of the WAP in Section C of the permit application. The process-related waste families include only those wastes that are generated from processes/activities used by permittee during the manufacture and use of coatings and resins or derived solely from a coating or resin manufactured by permittee;

(iii) Prior to acceptance by Permittee of a waste stream, Permittee shall obtain and maintain at the facility a signed written statement which provides the following: "By signing this statement I am certifying that this waste stream is generated by PPG Industries Ohio, Inc. and/or PPG Industries, Inc. ("PPG") and that this waste stream is generated from processes/activities used by PPG during the manufacture and use of coatings and resins or derived solely from a coating or resin manufactured by PPG." The statement must be signed by an individual who is responsible for waste management at the Permittee's generating location; and,

(iv) The Permittee(s) shall notify Ohio EPA of all generating locations which begin shipping waste to the facility. The notification must include the written signed statement referenced in permit condition B.3.(d)(iii), above. Permittee must submit this notification to Ohio EPA within thirty (30) days of acceptance of the waste at the facility.

B.4 Security
OAC Rule 3745-54-14

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

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

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The Permittee must follow the inspection schedule set forth in Section F of the permit application. The Permittee must remedy any deterioration or malfunction discovered by an inspection, as required by OAC Rule 3745-54-15(D). Records of inspection must be kept for a minimum of three years from the date of inspection. These records must be a part of the facility's operating record as required by OAC Rule 3745-54-73.

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

The Permittee must conduct personnel training, as required by OAC Rule 3745-54-16. This training program must contain at least the elements set forth in Section H of the permit application. The Permittee must 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 Wastes
OAC Rule 3745-54-17

(a) The Permittee must comply with the requirements of OAC Rule 3745-54-17 and must follow the procedures for handling ignitable, reactive, and incompatible wastes set forth in Section F of the permit application.

(b) The Permittee must provide electrical grounding for all containers and tanks, and transport vehicles during all operations involving the handling of ignitable or reactive wastes.

(c) The Permittee must provide, and require the use of, spark proof tools during all operations involving the handling of all ignitable or reactive wastes.

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

(e) Reserved

B.8 Reserved

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

At a minimum, the Permittee must 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 permit application.

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

The Permittee must inspect, test and maintain the equipment required by Permit 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 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 must maintain access to the communications and alarm systems, as required by OAC Rule 3745-54-34, Section F of the permit application and the terms and conditions of this permit.

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

At a minimum, the Permittee must 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.

B.13 Arrangements with Local Authorities
OAC Rule 3745-54-37

(a) The Permittee must comply with the requirements of OAC Rule 3745-54-37 (A) by making a diligent effort to:

(i) make arrangements and 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 permit application;

(ii) make arrangements with Ohio EPA emergency response teams, emergency response contractors, and equipment suppliers;

(iii) make arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and types of injuries or illnesses which could result from fires, explosions, or releases at the facility; and

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(iv) make agreements designating primary emergency authority to a specific police and a specific fire department and make agreements with any others to provide support to the primary emergency authority, where more than one police and fire department may respond to an emergency.

(b) Where authorities decline to enter into such agreements or arrangements set forth in OAC Rule 3745-54-37(A), the Permittee must 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 must immediately carry out the provisions of the contingency plan and follow the emergency procedures described in OAC Rule 3745-54-56, whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which threatens or could threaten human health or the environment.

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; or

(b) Any explosion involving hazardous waste; or

(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; or

(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; or

(e) Any hazardous waste release 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.

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

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

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

(a) Immediately after an emergency, the emergency coordinator must provide for treating, storing, or disposing of recovered waste, contaminated soil or surface water, or any other material that results from a release, fire, or explosion at the facility.

(b) 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, must be collected and managed as a hazardous waste unless the Permittee can demonstrate that such waste is not hazardous in accordance with OAC Rule 3745-51-03(C) and (D).

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

The Permittee must review the contingency plan at least annually and upon the occurrence of any event listed in OAC Rule 3745-54-54. If necessary or appropriate, the Permittee must 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 must comply with the requirements set forth in OAC Rule 3745-54-53 regarding contingency plan distribution. The Permittee must maintain at the facility a copy of the contingency plan and all revisions to the plan.

(b) The Permittee must, 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 must notify such agencies and the local authorities, in writing, within ten (10) days of the effective date of any amendments of, revisions to, or modifications to the contingency plan.

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(c) The Permittee must, 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.

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

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

B.20 Emergency Procedures
OAC Rule 3745-54-56

The Permittee must comply with the requirements regarding emergency procedures set forth in OAC Rule 3745-54-56, Section G of the permit application and the terms and conditions of this permit.

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

All records shall be furnished by the Permittee upon request to, and made available at all reasonable times for inspection by, Ohio EPA, in accordance with OAC Rule 3745-54-74.

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

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

B.23 Contingency Plan Records
OAC Rule 3745-54-56(J)

The Permittee must 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 after any such incident the Permittee must 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

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(a) In managing waste at the facility the Permittee must comply with 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 letter describing the discrepancy and attempts to reconcile it, and a copy of the manifest, to the Director in accordance with OAC Rule 3745-54-72.

(c) Unmanifested waste report. If the Permittee receives unmanifested waste which is not excluded from the manifest requirements of OAC Rule 3745-51-05, then the Permittee must submit an unmanifested waste report to the Director within fifteen (15) days after receipt of the waste. The report must include the information required under OAC Rule 3745-54-76.

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

The Permittee must 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 must implement the provisions of the closure plan found in Section I of the 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 must implement those procedures detailed within Section I of the permit application, in accordance with OAC Rules 3745-55-10 through 3745-55-20.

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 must amend the closure plan in accordance with OAC Rule 3745-55-12(C).

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

The Permittee must 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 must 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 must remove from the facility or treat or dispose of on-site all hazardous waste in accordance with the closure plan. 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(A). The Permittee must 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 must decontaminate or dispose of all contaminated facility equipment, structures, and soils, as required by OAC Rule 3745-55-14, the closure plan and the terms and conditions of this permit.

(b) The Permittee must notify the Ohio EPA Central District Office within five (5) working days prior to all rinseate and soil sampling.

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

The Permittee and an independent, registered professional engineer must certify that each hazardous waste management unit or the facility has been closed in accordance with the specifications in the closure plan and the terms and conditions

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of this permit, as required by OAC Rule 3745-55-15. The Permittee must furnish to the Director, upon request, documentation supporting the certification.

B.34 Reserved

B.35 Reserved

B.36 Cost Estimate for Facility Closure
OAC Rule 3745-55-42

(a) The Permittee's most recent closure cost estimate, prepared in accordance with OAC Rule 3745-55-42 is specified in Section I of the permit application.

(b) The Permittee must adjust the closure cost estimate for inflation within 30 days after the close of the Permittee's fiscal year and before submission of updated information to the Director, as specified in OAC Rule 3745-55-42(B).

(c) The Permittee must revise the closure cost estimate whenever there is a change in the facility's closure plan that increases the cost of closure, as required by OAC Rule 3745-55-42(C).

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

B.37 Financial Assurance for Facility Closure

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

B.38 Liability Requirements

The Permittee must maintain continuous compliance with the requirements 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 of at least $1 million per occurrence, with an annual aggregate of at least $2 million, exclusive of legal defense costs.

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

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

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MODULE C - CONTAINER STORAGE

C. CONTAINER STORAGE AND MANAGEMENT

The Permittee operates one (1) area, the ERU warehouse, for the storage of hazardous waste in containers (S01). The portion of the building used for hazardous waste storage measures approximately 15,000 square feet. The maximum quantity of hazardous waste allowed to be stored in containers in this area is 105,000 gallons. The hazardous waste stored by the Permittee is generated in the manufacture and use of coatings and resins either by the Permittee on-site or at off-site locations owned and operated by the Permittee. Any of the waste codes listed in Permit Condition C.3 may be stored in this container storage area.

All containers are placed on pallets. Sizes of containers stored in the ERU warehouse vary from one pint to 400 gallons. Containers may be stacked 1 to 3 high depending on NFPA guidelines for flammable liquids. A drum pumpout station is provided in the warehouse where some drum contents are transferred to permitted hazardous waste storage tanks. If non-pumpable solids remain in a container, it is fitted with a disposable cap while the drum awaits charging to the kiln. Drummed wastes that require special handling are pumped in a special station that allows charging of the waste through a lance directly to the kiln.

The containment system (the floor of the ERU warehouse) is comprised of 8" thick reinforced cast-in-place concrete designed to American Concrete Institute standards for the type of waste stored and expected loadings. The secondary containment has a capacity of 16,450 gallons. A paved ramp is provided at the entrance, and low points or sumps are provided throughout the warehouse for collection of spilled liquids. The warehouse also has tertiary containment which consists of a containment basin south of the warehouse and a sump should additional containment capacity be needed. The pavement of the sump in the exterior containment basin is underlined with an impervious clay layer.

C.1 Container Storage/ Quantity Limitation

(a) The Permittee is authorized to store 105,000 gallons of hazardous waste at any given time in the permitted container area located in the ERU warehouse. The Permittee must store hazardous waste in the types of containers (size and type) described in Section D of the permit application.

(b) For the purpose of compliance with the capacity limitation of this permit, each container will be considered to be storing an amount of hazardous waste equal to its capacity, regardless of the actual quantity stored in the container.

(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 and 40 CFR Part 265, subparts AA, BB, and CC.

However, when accumulating waste within the permitted container storage area, in accordance with OAC Rule 3745-52-34 and 40 CFR Part 265, subparts AA, BB, and CC, the Permittee must not, for the total amount of hazardous waste stored and accumulated, exceed the maximum container storage inventory established under this permit condition.

(d) The Permittee is authorized to conduct waste staging activities at the facility in accordance with the approved permit application. Waste staging activities are described in Attachment 3 to Section C of the permit application. At no time shall the total amount of hazardous waste in the permitted storage areas and waste staging areas exceed the facility's permitted storage capacity.

C.2 Reserved

C.3 Waste Identification

The Permittee must store in containers only the hazardous waste codes specified below:

D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D018, D019, D020, D021, D022, D023, D024, D025, D026, D027, D028, D029, D030, D031, D032, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043, F002, F003, F005, F039, K086, P003, P005, P022, P029, P030, P048, P054, P068, P077, P092, P098, P102, P106, P120, U001, U002, U003, U004, U006, U007, U008, U009, U012, U019, U023, U028, U031, U032, U034, U037, U041, U043, U044, U048, U051, U052, U053, U056, U057, U069, U070, U076, U077, U078, U080, U088, U092, U102, U108, U112, U113, U115, U117, U118, U121, U122, U123, U126, U133, U134, U135, U138, U140, U144, U145, U146, U147, U148, U149, U152, U154, U156, U159, U160, U161, U162, U166, U170, U182, U188, U190, U194, U196, U201, U210, U211, U213, U219, U220, U221, U223, U226, U227, U228, U239, and U242

C.4 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 must transfer the hazardous waste from such container to a container that is in good condition or otherwise manage the waste in compliance with the conditions of this permit and the hazardous waste facility chapters of the OAC.

C.5 Compatibility of Waste with Containers
OAC Rule 3745-55-72

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The Permittee must use a container made of or lined with materials which will not react with, and are otherwise compatible with, the hazardous waste to be stored, so that the ability of the container to contain the waste is not impaired.

C.6 Management of Containers
OAC Rule 3745-55-73

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

(b) In the event lab-pack wastes are generated they must be handled in compliance with applicable storage requirements.

(c) In the event lab-pack wastes are generated they must be packaged in drums containing absorbent material that is compatible with the waste.

C.7 Containment Systems
OAC Rule 3745-55-75

(a) The Permittee must maintain the containment system in accordance with the plans and specifications contained in Section D of the permit application.

(b) The Permittee must maintain the containment system as described in the 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 system must 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.

(c) The base of the containment system must be sloped or the containment system must be otherwise designed and operated to drain and remove liquids resulting from leaks, spills, or precipitation, unless the containers are elevated or are otherwise protected from contact with accumulated liquids.

(d) Run-on into the containment system must be prevented unless the collection system has sufficient excess capacity in addition to that required in Permit Condition C.7(b) above.

(e) Spilled or leaked waste and accumulated precipitation must be removed from the sump or collection area in a timely manner. This time period is not to exceed twenty-four (24) hours from the time spilled and/or leaked waste is discovered to have reached the hazardous waste pad sump.

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C.8 Prohibition of Container Storage
ORC § 3734.02(F)

The Permittee must not store any container of hazardous waste received from any off-site source that is not owned and/or operated by the Permittee.

C.9 Inspection Schedules and Procedures
OAC Rules 3745-54-15 and 3745-54-73

The Permittee must inspect the container storage area in accordance with the inspection schedule contained in Section F of the permit application and in accordance with OAC Rule 3745-54-15. The inspection schedule must be designed to detect leaking containers, deteriorating containers and/or containment systems. The Permittee must note the results of these inspections in the inspection log along with any remedial action taken.

Areas subject to spills, such as loading or unloading areas, shall be inspected daily when in use pursuant to the inspection procedure described in Section F of the permit application. The Permittee must maintain these inspection results in the facility operating record.

C.10 Recordkeeping
OAC Rule 3745-54-73

The Permittee must comply with all recordkeeping requirements of OAC Rule 3745-54-73 as part of the facility operating record.

C.11 Special Container Provisions for Ignitable or Reactive Waste
OAC Rules 3745-54-17 and 3745-55-76

(a) The Permittee must not store ignitable or reactive waste except in accordance with OAC Rules 3745-54-17 and 3745-55-76.

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

(c) The Permittee must take precautions to prevent accidental ignition or reaction of ignitable or reactive waste and shall follow the storage procedures specified in Sections D and F of the permit application.

C.12 Special Container Provisions for Incompatible Waste
OAC Rules 3745-54-17(B) and 3745-55-77

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

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

(c) The Permittee must separate or protect (by means of a dike, berm, wall, or other device) a storage container holding a hazardous waste that is incompatible with any waste or other materials stored nearby in other containers, piles, open tanks, or surface impoundments.

C.13 Reserved

C.14 Closure and Post-Closure
OAC Rules 3745-55-10 through 3745-55-20, and 3745-55-78

At closure of the container area, the Permittee shall remove all hazardous waste and hazardous waste residues from the containment system, in accordance with the procedures in the closure plan set forth in Section I of the permit application.

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MODULE D - TANK STORAGE, TREATMENT AND MANAGEMENT

D. TANK STORAGE, TREATMENT AND MANAGEMENT

The Permittee stores and treats (via blending) hazardous waste in twenty-one (21) aboveground tanks at the Energy Recovery Unit (ERU) and five (5) aboveground tanks at the resin plant (S02, T01). The wastes stored in these tanks are generated during the manufacture and use, by the Permittee, of PPG coatings and resins (see waste code list in Permit Condition D.1(a)). All storage tanks at the ERU were installed in 1987 and are considered existing tanks. The aqueous tank, installed at the resin plant in 1972, was moved in 1995 and is considered a new tank along with the other four (4) solvent waste tanks at the resin plant that were installed in 1995.

Sixteen (16) bulk liquid waste storage tanks, twelve of which are carbon steel and four of which are stainless steel, are located in the east and west cell room portions of the ERU warehouse. These tanks are used to accumulate and blend hazardous wastes prior to charging to the kiln. Each tank has a maximum operating volume of 15,000 gallons and maximum capacity of 17,000 gallons. Two (2) control liquid or high-BTU waste tanks, each with a 2,300-gallon maximum capacity, are located in the west cell room. The waste in these tanks can be directly fed to the kiln to control temperature. Two (2) overflow tanks are present in the east cell room. These tanks have 5,300 gallon capacities and are used to collect condensed vapors and overfill liquids from bulk storage tanks. Three (3) intermediate or drum pumpout tanks are located within the main warehouse portion of the ERU. These tanks have a maximum capacity of 1,700 gallons of waste each and are used to accumulate liquid pumped from waste drums prior to transfer of that waste to a bulk storage tank or directly to a lance feeding the kiln. One of the drum pumpout tanks is equipped with a heating jacket for proper storage and blending of high-viscosity waste.

All ERU tanks, except for the two (2) overflow tanks, are equipped with agitators for blending. Waste that is received in bulk, waste transferred from the drum pumpout tanks, and waste stored in the aqueous tank at the resin plant and received through the transfer pipeline is transferred through the manifold to one of the sixteen (16) bulk storage tanks after the identify of the waste is verified through analysis. Additional waste analysis is performed on blended samples prior to charging the waste to the kiln from the bulk storage, drum pumpout, or high-BTU waste tanks.

The level of material in the ERU tanks is monitored by differential pressure sensors that provide tank level displays in the control room. The level detectors have both high and a high-high level settings. At the high level, an audible and visual alarm is produced in the control room, drum pumpout area, and tank truck unloading

areas, indicating which tank has a high level condition. If the tank in the high condition continues to be filled, a capacitance-type point probe activates a high-high level switch that shuts down all transfer pumps feeding the overfilled tank. A lock is placed on the manifold to lock out the overfilled tank before pump control circuits are reactivated.

All ERU tanks are equipped with conservation vents connected to a vent line that directs condensed vapors and overfilled material to the vent headers of the overflow tanks; the overflow tanks also act as expansion tanks to relieve pressure in the bulk storage tanks. The vent header is equipped with a flame arrester. An inert nitrogen atmosphere is maintained on the vapor space on all ERU tanks, and the nitrogen gas is supplied at the overflow tanks which have low pressure alarm switches to assure adequate pressure (1-5" W.C.) of the nitrogen system is maintained. The temperatures of all tanks are monitored in the control room.

The cell rooms were constructed of cast-in-place reinforced concrete approximately 2 feet thick and are equipped with trenches and sumps for containment and cleanup of spills of less than 100 gallons. These sumps have level alarms that alert the control room in the event of spills, and organic vapor detectors sound an alarm in the control room in the event of a spill of organic liquid. A spill larger than 100 gallons would flow through the trench to the exterior containment basin which was constructed of 12 inch thick reinforced concrete curbed and graded for containment and enclosed/under roof. The capacity of this exterior containment basin is 25,900 gallons. A volclay liner was provided under the cell rooms and containment basin that provides an additional level of containment. The containment for the drum pumpout tanks (inside the ERU warehouse) consists of 8 inch thick reinforced concrete that is sloped to a low point in the room. The volume of containment provided for these tanks is 2,337 gallons.

At the resin plant, one (1) 12,086 gallon stainless steel tank is used to accumulate a mixed aqueous/resin mixture, while four (4) 5,250 gallon carbon steel tanks are used to accumulate waste resins and solvents. The aqueous tank is equipped with radar level detection while the other four (4) solvent waste tanks have level detection interlocked to load cells. The tank levels are continuously displayed at the resin plant, and the level sensors have set points for high and high-high level conditions. If a tank reaches the high level, a visual alarm is actuated and the pumps or other equipment feeding waste to these tanks are shut off. The transfer of aqueous waste is monitored by the ERU tank weight in the ERU control room. Lower than expected flows indicate a leak and an inspection is conducted.

To reduce ignition potential for flammable liquids as well as minimize air emissions, all resin plant waste tanks have nitrogen blanketing and conservation vents connected to a thermal oxidizer. Secondary containment for the resin plant waste

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tanks is comprised of 8 inch thick reinforced concrete dike with a containment volume of 12,800 gallons.

D.1 Tank Storage Quantity Limitation/Waste Identification

(a) The Permittee may store and treat a total volume of 315,000 gallons of hazardous waste in twenty-six (26) tanks, subject to the terms of this permit and as detailed in the table below.

The Permittee shall store in tanks only the hazardous waste codes specified in the permit application and summarized below:

Tank No.	Capacity (Gallons)	Dimensions of Tank	Secondary Containment Volume(Gallons)	Description of Hazardous Waste	Hazardous Waste No.
1501	17,000	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), below
1502	17,000	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), below
1503	17,000	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), below
1504	17,000	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), below
1505	17,000	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), below

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Tank No.	Capacity (Gallons)	Dimensions of Tank	Secondary Containment Volume(Gallons)	Description of Hazardous Waste	Hazardous Waste No.
1506	17,000	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), below
1511	17,000	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins (including corrosive waste)	See Permit Condition D.1.(c), below
1512	17,000	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins (including corrosive waste)	See Permit Condition D.1.(c), below
1513	17,000	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins (including corrosive waste)	See Permit Condition D.1.(c), below
1514	17,000	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins (including corrosive waste)	See Permit Condition D.1.(c), below
1515	17,000	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), below
1516	17,000	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), below

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Tank No.	Capacity (Gallons)	Dimensions of Tank	Secondary Containment Volume(Gallons)	Description of Hazardous Waste	Hazardous Waste No.
1517	17,000	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), below
1518	17,000	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), below
1519	17,000	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), below
1520	17,000	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), below
1521	2,300	6 ft diameter x 10 ft high	25,900	High-BTU waste	See Permit Condition D.1.(c), below
1522	2,300	6 ft diameter x 10 ft high	25,900	High-BTU waste	See Permit Condition D.1.(c), below
1523	1,700	6 ft diameter x 6 ft 6 in high	2,337*	Waste pumped from containers	See Permit Condition D.1.(c), below
1524	1,700	6 ft diameter x 6 ft 6 in high	2,337*	Waste pumped from containers	See Permit Condition D.1.(c), below
1525	1,700	6 ft diameter x 6 ft 6 in high	2,337*	Waste pumped from containers	See Permit Condition D.1.(c), below
R-1707	5,250	9 ft diameter x 10 ft 6 in high	12,800	Resin plant solvent waste	See Permit Condition D.1.(c), below
R-1708	5,250	9 ft diameter x 10 ft 6 in high	12,800	Resin plant solvent waste	See Permit Condition D.1.(c), below

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Tank No.	Capacity (Gallons)	Dimensions of Tank	Secondary Containment Volume(Gallons)	Description of Hazardous Waste	Hazardous Waste No.
R-1709	5,250	9 ft diameter x 10 ft 6 in high	12,800	Resin plant solvent waste	See Permit Condition D.1.(c), below
R-1710	5,250	9 ft diameter x 10 ft 6 in high	12,800	Resin plant solvent waste	See Permit Condition D.1.(c), below
R-1711	12,086	11 ft diameter x 17 ft high	12,800	Resin plant aqueous waste	See Permit Condition D.1.(c), below,

* Any overflow from the drum processing containment area will be contained in the containment area in the south-east corner of the ERU warehouse.

(b) During any calendar year, the Permittee must not manage through tank storage hazardous waste in excess of the maximum annual quantity set forth in Permit Condition B.1(b) of this permit.

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

D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D018, D019, D020, D021, D022, D023, D024, D025, D026, D027, D028, D029, D030, D031, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043, F002, F003, F005, F039, K086, P003, P005, P022, P029, P030, P048, P054, P068, P077, P092, P098, P102, P106, P120, U001, U002, U003, U004, U006, U007, U008, U009, U012, U019, U023, U028, U031, U032, U034, U037, U041, U043, U044, U048, U051, U052, U053, U056, U057, U069, U070, U076, U077, U078, U080, U088, U092, U102, U108, U112, U113, U115, U117, U118, U121, U122, U123, U126, U133, U134, U135, U138, U140, U144, U145, U146, U147, U148, U149, U152, U154, U156, U159, U160, U161, U162, U166, U170, U182, U188, U190, U194, U196, U201, U210, U211, U213, U219, U220, U221, U223, U226, U227, U228, U239, and U242

D.2 Limitations on Treatment of Hazardous Waste in Tanks

(a) The Permittee is authorized to treat hazardous waste in the tanks specified in the table below at a rate not to exceed 27,400 gallons per day. The Permittee shall treat in tanks only the hazardous waste codes specified in the permit application and summarized below:

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Tank No.	Capacity (Gallons)	Treatment Type	Dimensions of Tank	Secondary Containment Volume(Gallons)	Description of Hazardous Waste	Hazardous Waste No.
1501	17,000	Blending	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), above
1502	17,000	Blending	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), above
1503	17,000	Blending	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), above
1504	17,000	Blending	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), above
1505	17,000	Blending	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), above
1506	17,000	Blending	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), above
1511	17,000	Blending	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins (including corrosive waste)	See Permit Condition D.1.(c), above
1512	17,000	Blending	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins (including corrosive waste)	See Permit Condition D.1.(c), above

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Tank No.	Capacity (Gallons)	Treatment Type	Dimensions of Tank	Secondary Containment Volume(Gallons)	Description of Hazardous Waste	Hazardous Waste No.
1513	17,000	Blending	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins (including corrosive waste)	See Permit Condition D.1.(c), above
1514	17,000	Blending	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins (including corrosive waste)	See Permit Condition D.1.(c), above
1515	17,000	Blending	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), above
1516	17,000	Blending	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), above
1517	17,000	Blending	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), above
1518	17,000	Blending	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), above
1519	17,000	Blending	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), above
1520	17,000	Blending	12 ft diameter x 20 ft high	25,900	Waste generated in the manufacture and use of coatings and resins	See Permit Condition D.1.(c), above

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Tank No.	Capacity (Gallons)	Treatment Type	Dimensions of Tank	Secondary Containment Volume(Gallons)	Description of Hazardous Waste	Hazardous Waste No.
1521	2,300	Blending	6 ft diameter x 10 ft high	25,900	High-BTU waste	See Permit Condition D.1.(c), above
1522	2,300	Blending	6 ft diameter x 10 ft high	25,900	High-BTU waste	See Permit Condition D.1.(c), above
1523	1,700	Blending	6 ft diameter x 6 ft 6 in high	2,337*	Waste pumped from containers	See Permit Condition D.1.(c), above
1524	1,700	Blending	6 ft diameter x 6 ft 6 in high	2,337*	Waste pumped from containers	See Permit Condition D.1.(c), above
1525	1,700	Blending	6 ft diameter x 6 ft 6 in high	2,337*	Waste pumped from containers	See Permit Condition D.1.(c), above
R-1707	5,000	Blending	9 ft diameter x 10 ft 6 in high	12,800	Resin plant solvent waste	See Permit Condition D.1.(c), above
R-1708	5,000	Blending	9 ft diameter x 10 ft 6 in high	12,800	Resin plant solvent waste	See Permit Condition D.1.(c), above
R-1709	5,000	Blending	9 ft diameter x 10 ft 6 in high	12,800	Resin plant solvent waste	See Permit Condition D.1.(c), above
R-1710	5,000	Blending	9 ft diameter x 10 ft 6 in high	12,800	Resin plant solvent waste	See Permit Condition D.1.(c), above
R-1711	12,086	Blending	11 ft diameter x 17 ft high	12,800	Resin plant aqueous waste	See Permit Condition D.1.(c), above

* Any overflow from the drum processing containment area will be contained in the containment area in the south-east corner of the ERU warehouse.

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(b) The provision of Condition D.2(a) shall not apply to the Permittee's activities as a generator treating hazardous waste in tanks on-site in compliance with the provisions of OAC Rule 3745-52-34.

However, when treating waste in tanks in accordance with OAC Rule 3745-52-34, the Permittee shall not, for the total amount of hazardous waste treated, exceed the maximum throughput capacity established under this Condition.

D.3 Reserved

D.4 Containment and Detection of Releases.
OAC Rule 3745-55-93

(a) New Tank Systems

The Permittee must construct and operate the secondary containment systems in accordance with requirements of 3745-55-93(B) through (F), and Section D of the permit application.

New tanks at the facility are R-1707, R-1708, R-1709, R-1710, and R-1711.

(b) Existing Tank Systems with Secondary Containment. The Permittee must design, construct, and operate the secondary containment system, in accordance with the detailed design plans and descriptions contained in Section D of the permit application.

Existing tanks at the facility are 1501, 1502, 1503, 1504, 1505, 1506, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, and 1525.

D.5 Operating Requirements
OAC Rule 3745-55-94

(a) The Permittee must 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 must prevent spills and overflows from the tank or containment systems using the methods described in the permit application. The Permittee must comply with the requirements of OAC Rule 3745-55-96 if a leak or spill occurs in the tank system.

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D.6 Inspection Schedules and Procedures
OAC Rule 3745-55-95

(a) The Permittee must inspect the tank systems, in accordance with the Inspection Schedule found in Section F of the permit application and must complete the items in Permit Conditions D.6(b) through D.6(e) as part of those inspections.

(b) The Permittee must inspect the overfill controls, in accordance with the procedure and schedule in the permit application.

(c) The Permittee must inspect the following components of the tank systems once each operating day:

(i) Aboveground portions of the tank systems, 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 systems are being operated according to its design; and

(iii) Construction materials and the area immediately surrounding the externally accessible portion of the tank systems, including the secondary containment system, to detect erosion or signs of releases of hazardous waste (e.g., wet spots, dead vegetation).

(d) The Permittee must perform the following tank preventative maintenance procedures:

(i) For all permitted hazardous waste storage tanks, ultrasonic thickness testing must be conducted once every five years using the procedures in Section F.2.2.2.5 of the permit application. Ultrasonic testing of the bottoms of all tanks in the east and west cell rooms is required by 2007 in accordance with Section F.2.2.2.5 of the permit application.

(ii) If a tank system or component is found to be leaking or unfit for use as a result of the ultrasonic testing, the Permittee must comply with Permit Condition D.7 of this Permit and notify the Director, in accordance with Permit Condition D.8. of this permit.

(e) The Permittee must document compliance with Permit Condition D.6 in the operating record of the facility.

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D.7 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 must remove the system from service immediately and complete the following actions:

(i) Immediately 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) The Permittee must 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.7(b)(i) through D.7(b)(vi) are satisfied, the Permittee must close the 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 continual use.

(i) For a release caused by a spill that has not damaged the integrity of the system, the Permittee must remove the released waste and make any necessary repairs to fully restore the integrity of the system before returning the tank system to service.

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(ii) For a release caused by a leak from the primary tank system to the secondary containment system, the Permittee must repair the primary system prior to returning it to service.

(iii) Reserved

(iv) For a release to the environment caused by a leak from the aboveground portion of the tank system that does not have secondary containment, and can be visually inspected, the Permittee must repair the tank system in accordance with Permit Condition D.7(c) before returning it to service.

(v) For a release to the environment caused by a leak from the portion of the tank system component that is not readily available for visual inspection, the Permittee must provide secondary containment for the entire component that meets the requirements of OAC Rule 3745-55-93 before the component can be returned to service.

(vi) If the Permittee replaces a component of the tank system to eliminate the leak, that component must satisfy the requirements for new tank systems or components in OAC Rules 3745-55-92 and 3745-55-93.

(c) For all major repairs (e.g., installation of an internal liner, repair of a ruptured tank, or repair or replacement of a secondary containment vault) 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)(1) 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. This certification must be submitted to the Director within seven days after returning the tank system to use.

D.8 Recordkeeping and Reporting
OAC Rules 3745-55-96, 3745-55-91(A), and 3745-55-92(G)

(a) The Permittee must 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.

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(b) Within 30 days of detecting a release to the environment from the tank system or secondary containment system, the Permittee must 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.

(c) The Permittee must obtain, and keep on file at the facility, the written statements by those persons required to certify the design and installation of the new tank system.

(d) The Permittee must keep on file at the facility the written assessment of the existing tank system's integrity.

(e) The Permittee must maintain at the facility a record of the results of leak tests and integrity tests conducted, in accordance with Permit Condition D.6(d).

D.9 Closure and Post-Closure Care
OAC Rule 3745-55-97

(a) At closure of the tank systems, the Permittee must follow the procedures in the closure plan in Section I of the permit application.

(b) If the Permittee demonstrates that not all contaminated soils can be practically removed or decontaminated, in accordance with the closure plan, then the Permittee must close the tank systems and perform post-closure care.

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D.10 Special Tank Provisions for Ignitable or Reactive Wastes
OAC Rule 3745-55-98

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

(b) The Permittee must 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 to 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code" (1996) incorporated by reference in OAC Rule 3745-50-11.

D.11 Special Tank Provisions for Incompatible Wastes
OAC Rule 3745-55-99

(a) The Permittee must not place incompatible wastes, or incompatible wastes and materials, in the same tank system or the same secondary containment system, unless the procedures specified in the permit application are followed. The Permittee must document compliance with this condition and place that documentation into the operating record.

(b) The Permittee must 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.11(a) are met.

D.12 Reserved

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MODULE E - CORRECTIVE ACTION REQUIREMENTS

E. CORRECTIVE ACTION SUMMARY

In the mid 1980's, Ohio EPA became aware of impacts to the ground water on and downgradient of the Permittee's facility. Between 1987 and 1989, the Permittee investigated and remediated PCB contamination in site soils and the adjacent Scippo Creek. On December 21, 1989, the Permittee entered into an Administrative Order on Consent (AOC) with Ohio EPA's Division of Emergency and Remedial Response (DERR) in order to address historical releases of contamination into the environment from the site. This agreement required the Permittee to investigate and address historic contamination associated with operation of its coatings and resins manufacturing facility since 1962. Specifically, the Permittee was required to: (1) conduct a supplemental ground water assessment, (2) define the nature and extent of soil contamination at former waste management areas, (3) evaluate the effectiveness of recovery well #1 (RW-1)in reducing migration of ground water contaminants, (4) prepare a feasibility study to identify, screen and evaluate remedial alternatives, and (5) conduct ground water monitoring and evaluation to assess effectiveness of remedial actions implemented.

The Permittee completed remedial investigations (RI) in 1991 and 1996 to characterize the nature and extent of contamination at the site, and to evaluate risks to human health and the environment. In 1996, the Permittee completed a feasibility study (FS) to screen and evaluate viable remedial alternatives for the site. In 1998, additional ground water monitoring was completed to update the RI ground water information. The Permittee finalized the FS in February of 1999 and the Ohio EPA approved the FS in May 1999. In September 1999, the Ohio EPA issued a Preferred Plan, which proposed the remedial measures for the site. In June 2000, Ohio EPA issued the Decision Document (DD), which selected remedial actions for the site. In response to the DD, the Permittee prepared the Remedial Design/Remedial Action (RD/RA) workplan, which provides the procedures necessary to implement the remedial measures at the site. The DD required remedial measures for soil in the Buried Pond Residue Area and for the Off-Property Groundwater.

Details on the Permittee's site-wide RCRA corrective action activities between 1989 and present are given in Section J of the Part B permit application. All corrective action documents referenced in Section J are hereby incorporated into the Part B Permit and will be governed by applicable corrective action rules and policies.

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Corrective action obligations are currently being addressed by DERR through the AOC. Ohio EPA's DERR will continue to oversee the Permittee's implementation of corrective measures required by the June 2000 Decision Document. Newly discovered waste management units (WMUs) at the Facility or new releases from existing WMUs are addressed by conditions in this module.

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

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), constructions 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 U.S. EPA's Corrective Action Plan (CAP) (OSWER Directive 9902.3-2A, May 1994).

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 Rule 3745-54-101

The Permittee must implement Corrective Action 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) and 3745-55-011

As indicated in the Corrective Action Summary, the Permittee is currently addressing contamination caused by releases from various WMUs at the facility. These corrective measures are being overseen by DERR. The following conditions (E.5 - E.9) only apply in the event new WMUs are identified or new releases from existing WMUs occur, as outlined in conditions E.10 and E.11.

E.4 Reserved

E.5 RCRA Facility Investigation (RFI)
OAC Rule 3745-54-101

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.10. The major tasks and required submittal dates are shown below. The scope of work for each of the tasks is found in U.S. EPA's CAP.

(a) RFI Workplan

The Permittee must submit a written RFI Workplan to Ohio EPA within ninety (90) days after the effective date of this permit or, in case of a newly discovered waste management unit, on a time frame established by Ohio EPA.

(i) Within forty-five (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 Ohio EPA's comments.

(ii) 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.

(b) RFI Implementation

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

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(c) RFI Final Report

Within sixty (60) days after the completion of the RFI, the Permittee must submit an RFI Final Report to Ohio EPA. The RFI Final Report must 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) Within forty-five (45) days of receipt of any Ohio EPA comments on the RFI Final Report, the Permittee must submit either an amended or new RFI Final Report that incorporates Ohio EPA's comments.

(ii) Ohio EPA will approve or modify and approve, in writing, the amended or new RFI Final Report. The RFI 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 RFI Final Report must be authorized by Ohio EPA.

E.6 Interim Measure (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 of the Schedule of Compliance. Other tasks identified in the Schedule of Compliance shall remain in effect. This permit modification application must conclusively demonstrate that there are no releases of hazardous waste or constituents from WMUs at the Facility that pose an unacceptable risk to human health and the environment.

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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.

(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 Work Plan and upon Ohio EPA approval of that Work Plan, 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 must 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 Permit Condition E.9.

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(a) CMS Workplan

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

(i) Within forty-five (45) days of receipt of any Ohio EPA comments, the Permittee must submit either an amended or new CMS Workplan that incorporates Ohio EPA's comments.

(ii) Ohio EPA will approve or modify and approve, in writing, the amended or new CMS Workplan. The CMS Workplan, as approved or as modified and approved, must 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 must implement the CMS Workplan according to the terms and schedule in the approved CMS Workplan.

(c) CMS Final Report

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

(i) Within forty-five (45) days of receipt of any Ohio EPA comments, the Permittee must submit either an amended or new CMS Final Report that incorporates Ohio EPA's comments.

(ii) Ohio EPA will 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, must 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.

E.9 Corrective Measures Implementation (CMI)

Based on the results of the CMS, the Permittee must implement one or more of the Corrective Measures authorized by Ohio EPA. Ohio EPA will authorize one or more

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of the Corrective Measures in the CMS, 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.

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

(b) Financial Assurance
OAC Rule 3745-54-101

Within thirty (30) 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 3745-54-101 (B) and (C).

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

(a) General Information

The Permittee must submit to Ohio EPA, within thirty (30) days of discovery, the following information regarding any new WMU identified at the Facility by Ohio EPA or the Permittee:

(i) The location of the unit on the site topographic map;

(ii) Designation of the type of unit;

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(iii) General dimensions and structural description (supply any available drawings);

(iv) When the unit was operated; and

(v) Specification of all waste(s) that have been managed at the unit.

(b) Release Information

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

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

If Ohio EPA determines that a RFI is required for newly identified WMUs, the Permittee must submit a written RFI Workplan to Ohio EPA upon a time frame established in written notification by Ohio EPA in accordance with Permit Condition E.5. This determination will be made based on the information submitted in accordance with Permit Condition E.10.

Further investigations or corrective measures will be established by Ohio EPA.

Permittee must make such submittal in accordance with time frames established by Ohio EPA.

E.12 Completion of Corrective Action
OAC Rule 3745-54-101

After completing Corrective Action as necessary to protect human health and the environment for all releases of hazardous wastes or hazardous constituents from any WMUs at the Facility, the Permittee shall submit a Corrective Measures Completion of Work (CMCW) Report. The CMCW Report shall document that Corrective Action construction is complete, cleanup objectives and standards have been met, and any releases of hazardous waste or constituents no longer pose an unacceptable risk to human health and the environment. The CMCW Report may be submitted for any part of the Facility for which corrective measures are complete, or for the entire Facility. The CMCW Report must be submitted as a request for permit modification pursuant to OAC Rule 3745-50-51.

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E.13 Documents Requiring Professional Engineer Stamp
ORC 4733.01

Preparation of the following Corrective Action documents constitutes the "practice of engineering" as defined by ORC 4733.01:

Final Interim Measures Report

Corrective Measures Final Design

Corrective Measures Construction Completion Report

Corrective Measures Attainment of Groundwater Performance Standards Report

Corrective Measures Completion of Work Report

As such, the Permittee must ensure that these documents, as submitted to Ohio EPA, are stamped by a Professional Engineer licensed to practice in the State of Ohio.

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MODULE F - RESERVED

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MODULE G - RESERVED

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MODULE H - RESERVED

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MODULE I - INCINERATION

I. INCINERATION

The incineration system consists of a rotary kiln incinerator, secondary combustion chamber, slag and ash collection systems, heat recovery boiler, electrostatic precipitator, primary and supplemental induced draft fans, packed bed wet scrubber, carbon adsorption system and a stack.

The rotary kiln is a large, cylindrical, refractory lined chamber that slowly rotates to tumble the solid waste materials as they are burned. Bulk liquids and sludge wastes are injected into the rotary kiln through lances in the front wall. Containerized waste, including drums, baled trash, and cartons of obsolete product are charged to the rotary kiln through an air lock into a feed chute in the front wall of the kiln.

The secondary combustion chamber is a stationary, refractory lined chamber that provides additional residence time to complete the combustion process.

A computerized process control system monitors and controls the incineration system. This process control system monitors key process parameters and will stop waste feeds if certain process and operation parameters fall outside the allowable operating range. The incineration system has a heat release capacity of 5.73E7 Btu/hr (low heat value basis).

In February 2005, PPG conducted a Comprehensive Performance Test (CPT) of the incinerator to demonstrate compliance with the maximum achievable control technology (MACT) requirements of 40 CFR Part 63, subpart EEE. A retest of the incinerator occurred in April 2005, and PPG submitted its notification of compliance (NOC) to U.S. EPA on June 30, 2005. Information submitted in this notification demonstrated that the system was in compliance with MACT requirements when operating in accordance with the conditions identified in PPG's Title V permit. As a result of the CPT and NOC many of the air emission and operating requirements for the incineration system have been transferred to DAPC's Title V permit. This module addresses closure and the director's authority under RCRA to require a new trial burn, on a case-by-case basis, and to include additional conditions determined necessary to protect human health and the environment.

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I.1 Identification Criteria for Permitted and Prohibited Waste

Unless otherwise authorized, the Permittee may incinerate the following hazardous wastes, as specified in this Permit and only under the terms of this Permit.

(a) The Permittee may incinerate only hazardous waste received from and generated by on- and off- site PPG facilities.

(b) The physical state of the waste shall be liquid, solid, slurry, or sludge. Compressed gases are prohibited from being fed to the incineration system.

(c) The Permittee shall not incinerate or treat any State-recognized hazardous waste whose current Ohio EPA hazardous waste code does not appear in the approved Part A permit application. Permittee may treat federally approved codes the state has not yet promulgated.

I.2 Construction, Instrumentation, and Operational Performance Requirements
OAC Rules 3745-50-44(C)(7)(e), 3745-50-40(D)(6) and 3745-50-40(H)

The Permittee must notify Ohio EPA's DHWM of any significant modifications to the incineration system or its operation that have the potential to affect emissions and therefore facility risk. The director may require a new trial burn. Significant modifications include, but are not limited to:

(a) Modification of an incinerator unit by changing the internal size or geometry of the primary or secondary combustion units or by substantially changing the design of any component used to control emissions from the incinerator unit.

(b) Modification of regulated limits for minimum combustion gas temperature, minimum combustion gas residence time, or oxygen concentration in the secondary combustion chamber.

(c) Incineration of different wastes or changes to increase waste feed rates, including feed rates of metals and chlorine.

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(d) Changes to regulated stack gas emission limits or procedures concerning emergency shutdown or automatic feed cutoff.

I.3 Closure

OAC Rule 3745-57-51

The Permittee must follow the procedures in the Closure Plan in Section I of the permit application, and the terms and conditions of this permit.

I.4 Treatment Residuals

Unless the Permittee can show otherwise, per OAC Rule 3745-51-03(D), residue from the incinerator is hazardous waste and the Permittee is considered the generator.

(a) The Permittee shall sample and analyze the treatment residue generated from the incineration system and all ancillary systems in accordance with the procedures outlined in Section C of the permit application.

(b) The Permittee shall manage the treatment residue generated from the incineration system in accordance with the procedures outlined in Sections C and D of the permit application and all applicable Ohio hazardous waste regulations.

End of Permit Conditions