John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

10/22/2013

Genevieve Damico *Via E-Mail Notification*
United States Environmental Protection Agency
Mail Code: AR-18J
77 West Jackson Blvd.
Chicago, IL 60604-3507

RE: PROPOSED AIR POLLUTION TITLE V PERMIT
Facility Name: Whirlpool Corp. Marion Div.
Facility ID: 0351010012
Permit Type: Renewal
Permit Number: P0109908

Dear Ms. Damico:

A proposed OAC Chapter 3745-77 Title V permit for the referenced facility has been issued for review by U.S. EPA. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab. If U.S. EPA does not object to this proposed permit, the permit will be processed for issuance as a final action not less than 45 days from the date of this letter. Please contact me at (614) 644-3631 by the end of the 45 day review period if you wish to object to the proposed permit.

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA DAPC, Northwest District Office

PROPOSED

Division of Air Pollution Control
Title V Permit
for
Whirlpool Corp. Marion Div.

Facility ID:	0351010012
Permit Number:	P0109908
Permit Type:	Renewal
Issued:	10/22/2013
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance

Division of Air Pollution Control
Title V Permit
for
Whirlpool Corp. Marion Div.

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Authorization

Facility ID:	0351010012
Facility Description:	Manufacturer of Household Laundry Equipment
Application Number(s):	A0040574, A0042861, A0043548, A0046819, A0048532
Permit Number:	P0109908
Permit Description:	Renewal Title V operating permit for a manufacturer of household laundry equipment.
Permit Type:	Renewal
Issue Date:	10/22/2013
Effective Date:	To be entered upon final issuance
Expiration Date:	To be entered upon final issuance
Superseded Permit Number:	P0087307

This document constitutes issuance of an OAC Chapter 3745-77 Title V permit to:

Whirlpool Corp. Marion Div.
1300 Marion-Agosta Road
Marion, OH 43301-1808

Ohio Environmental Protection Agency (EPA)District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402
(419)352-8461

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Ohio EPA DAPC, Northwest District Office. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months (540 days) and no later than 6 months (180 days) prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally
Director

A. Standard Terms and Conditions

1. Federally Enforceable Standard Terms and Conditions

a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:

(1) Standard Term and Condition A. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions

(2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions

(3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting

(4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

(Authority for term: ORC 3704.036(A))

2. Monitoring and Related Record Keeping and Reporting Requirements

a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

(1) The date, place (as defined in the permit), and time of sampling or measurements.

(2) The date(s) analyses were performed.

(3) The company or entity that performed the analyses.

(4) The analytical techniques or methods used.

(5) The results of such analyses.

(6) The operating conditions existing at the time of sampling or measurement.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))

b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))

c) The permittee shall submit required reports in the following manner:

(1) All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year in accordance with Standard Term and Condition A.2.c)(2) below; and each report shall cover the previous calendar quarter. An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c).

In accordance with OAC rule 3745-15-06, a malfunction reportable under OAC rule 3745-15-06(B) is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

(2) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit or, in some cases, in section B. Facility-Wide Terms and Conditions of this Title V permit), all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive

measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement satisfies the reporting requirements specified in this Standard Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy (for the deviations so reported) the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this Standard Term and Condition.

See A.29 below if no deviations occurred during the quarter.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

(3) All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with Standard Term and Condition A.2)c)(2) above shall be submitted in the following manner:

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) above shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by permit or rule for the

insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with Standard Term and Condition A.2.c)(2) above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))

(4) Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."

(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))

(5) Reports of any required monitoring and/or record keeping information shall be submitted to Ohio EPA DAPC, Northwest District Office.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

3. Scheduled Maintenance

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in Standard Term and Condition A.2.c)(1) above.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

4. Risk Management Plans

If applicable, the permittee shall develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq. ("Act"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

a) a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or

b) as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

(Authority for term: OAC rule 3745-77-07(A)(4))

5. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

(Authority for term: OAC rule 3745-77-07(A)(5))

6. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

(Authority for term: OAC rule 3745-77-07(A)(6))

7. General Requirements

a) The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

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

c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with Standard Term and Condition A.11 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.

d) This permit does not convey any property rights of any sort, or any exclusive privilege.

e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the

Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:

(1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or

(2) the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or

(3) a combination of (1) and (2) above.

The permittee shall continue to comply with all applicable OAC Chapter 3745-31 requirements for all regulated air contaminant sources once this permit ceases to be enforceable. The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))

8. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.

(Authority for term: OAC rule 3745-77-07(A)(8))

9. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

(Authority for term: OAC rule 3745-77-07(A)(9))

10. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these standard terms and conditions shall apply to all operating scenarios authorized in this permit.

(Authority for term: OAC rule 3745-77-07(A)(10))

11. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

a) Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.

b) This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.

c) The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.

d) The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))

12. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

(Authority for term: OAC rule 3745-77-07(B))

13. Compliance Requirements

a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

(1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

(2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.

(3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

(4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

c) The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

(1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.

(2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:

(1) Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted (i.e., postmarked) on or before April 30th of each year during the permit term.

(2) Compliance certifications shall include the following:

a. An identification of each term or condition of this permit that is the basis of the certification.

b. The permittee's current compliance status.

c. Whether compliance was continuous or intermittent.

d. The method(s) used for determining the compliance status of the source currently and over the required reporting period.

e. Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.

(3) Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))

14. Permit Shield

a) Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

b) This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

(Authority for term: OAC rule 3745-77-07(F))

15. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

(Authority for term: OAC rules 3745-77-07(H)(1) and (2))

16. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

(Authority for term: OAC rule 3745-77-07(G))

17. Off-Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

a) The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.

b) The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.

c) The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).

d) The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

e) The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit-to-install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(Authority for term: OAC rule 3745-77-07(I))

18. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

(This term is provided for informational purposes only.)

19. Insignificant Activities or Emissions Levels

Each IEU that has one or more applicable requirements shall comply with those applicable requirements.

(Authority for term: OAC rule 3745-77-07(A)(1))

20. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-07(A)(1))

21. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

(Authority for term: OAC rule 3745-77-07(A)(1))

22. Permanent Shutdown of an Emissions Unit

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification from the responsible official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the responsible official that the emissions unit was permanently shut down.

After the date on which an emissions unit is permanently shut down (i.e., that has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31 and therefore ceases to meet the definition of an "emissions unit" as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any Title V permit requirements applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

No emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-01)

23. Title VI Provisions

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.

b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.

c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

(Authority for term: OAC rule 3745-77-01(H)(11))

24. Reporting Requirements Related to Monitoring and Record Keeping RequirementsUnder State Law Only

The permittee shall submit required reports in the following manner:

a) Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

25. Records Retention RequirementsUnder State Law Only

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

26. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

(Authority for term: OAC rule 3745-77-07(C))

27. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

28. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

(Authority for term: OAC rule 3745-77-01(C))

29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

a) where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in Standard Term and Condition A.2.c)(2); or

b) where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; or

c) where the company's responsible official has certified that an emissions unit has been permanently shut down.

B. Facility-Wide Terms and Conditions

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

   a) None.

2. The following emissions unit(s) is subject to 40 CFR, Part 63, SubpartNNNN: significant emissions units K004, K006 and K008; The complete MACT requirements, including the MACT General Provisions may be accessed via the Internet from the Electronic Code of Federal Regulations (e-CFR) website http://www.ecfr.gpoaccess.gov or by contacting the appropriate Ohio EPA District office or local air agency.

3. The following insignificant emissions units at this facility must comply with all applicable State and federal regulations, as well as any emissions limitations and/or control requirements contained within the identified permit-to-install for the emissions unit. The insignificant emissions units listed below are subject to one or more applicable requirements contained in a permit-to-install or in the SIP approved versions of OAC Chapters 3745-17, 3745-18, 3745-21,and 3745-31, and/or 40 CFR Part 60 or 63:

   a) B006- 6.75 mmBtu/hr Powder boilers 1-2-3.

   [Authority for term: OAC rule 3745-77-07(A)(13)]

C. Emissions Unit Terms and Conditions

1. K004, Ecoat #2: dip one coat, rinse, oven

Operations, Property and/or Equipment Description:

E-coat coating line #2 (cathodic E-coat bath rinse stages and a 9mmBtu/hr NG/LPG fired cure oven)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-21-09(K)	Exempt pursuant to OAC rule 3745-21-09(K)(4) See b)(2)a.
b.	40 CFR, Part 63, Subpart NNNN	Organic Hazardous Air Pollutants (HAPs) emissions to the atmosphere must be limited to no more than 0.13 kg/liter (1.1 lbs/gallon) of coating solids used during each compliance period.[40 CFR 63.4090(a)]
c.	40 CFR 63.1-15 (40 CFR 63.4101)	Table 2 to Subpart NNNN of 40 CFR Part 63 – Applicability of General Provisions to Subpart NNNN shows which parts of the General Provisions in 40 CFR 63.1-15 apply.

(2) Additional Terms and Conditions

a. This emissions unit was installed prior to October 19, 1979 and is located at the "Whirlpool Corporation (Marion Division)". Therefore, in accordance with OAC rule 3745-21-09(K)(4), the provisions of OAC rule 3745-21-09(K)(1) are not applicable to this emissions unit as long as a "modification" to this source does not occur.

c) Operational Restrictions

(1) The permittee shall comply with the application restrictions required under 40 CFR Part 63 Subpart NNNN, including the following sections:

63.4100(a) – (e)	general compliance requirements

[OAC rule 3745-77-07(A)(1)]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall comply with the applicable monitoring and recordkeeping requirements required under 40 CFR Part 63 Subpart NNNN, including the following sections:

63.4130(a)	record of notification reports
63.4130(b)	record of manufacturer's data
63.4130(c)	record of HAP emission calculations
63.4130(d)	record of coating, thinner, and cleaning material
63.4130(e)	record of mass fraction of organic HAP for each coating, thinner, and cleaning material
63.4130(f)	record of volume fraction of coating solids
63.4130(g)	record of the density of each coating, thinner, and cleaning material
63.4130(h)	records of waste materials
63.4130(j)	records of deviations
63.4131(a) – (c)	maintenance of records

[OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit semiannual reports and other such notifications and reports to the Northwest District Office as are required pursuant to 40 CFR Part 63 Subpart NNNN, per the following sections:

63.4120(a)	semiannual compliance report
63.4120(b)	content of semiannual reports
63.4120(c)	submission of deviation reports
63.4120(d)	submission of deviation reports

[OAC rule 3745-77-07(C)(1)]

(2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
[OAC rule 3745-15-03(A)]

f) Testing Requirements

(1) None.

g) Miscellaneous Requirements

(1) None.

2. K006, Ecoat #1: dip one coat, rinse, oven

Operations, Property and/or Equipment Description:

E-coat coating line #1 (cathodic E-coat bath rinse stages and a 9mmBtu/hr NG/LPG fired cure oven)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-21-09(K)	Exempt pursuant to OAC rule 3745-21-09(K)(4) See b)(2)a.
b.	40 CFR, Part 63, Subpart NNNN	Organic Hazardous Air Pollutants (HAPs) emissions to the atmosphere must be limited to no more than 0.13 kg/liter (1.1 lbs/gallon) of coating solids used during each compliance period.[40 CFR 63.4090(a)]
c.	40 CFR 63.1-15 (40 CFR 63.4101)	Table 2 to Subpart NNNN of 40 CFR Part 63 – Applicability of General Provisions to Subpart NNNN shows which parts of the General Provisions in 40 CFR 63.1-15 apply.

(2) Additional Terms and Conditions

a. This emissions unit was installed prior to October 19, 1979 and is located at the "Whirlpool Corporation (Marion Division)". Therefore, in accordance with OAC rule 3745-21-09(K)(4), the provisions of OAC rule 3745-21-09(K)(1) are not applicable to this emissions unit as long as a "modification" to this source does not occur.

c) Operational Restrictions

(1) The permittee shall comply with the application restrictions required under 40 CFR Part 63 Subpart NNNN, including the following sections:

63.4100(a) – (e)	general compliance requirements

[OAC rule 3745-77-07(A)(1) and 40 CFR Part 63 Subpart NNN]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall comply with the applicable monitoring and recordkeeping requirements required under 40 CFR Part 63 Subpart NNNN, including the following sections:

63.4130(a)	record of notification reports
63.4130(b)	record of manufacturer's data
63.4130(c)	record of HAP emission calculations
63.4130(d)	record of coating, thinner, and cleaning material
63.4130(e)	record of mass fraction of organic HAP for each coating, thinner, and cleaning material
63.4130(f)	record of volume fraction of coating solids
63.4130(g)	record of the density of each coating, thinner, and cleaning material
63.4130(h)	records of waste materials
63.4130(j)	records of deviations
63.4131(a) – (c)	maintenance of records

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63 Subpart NNN]

e) Reporting Requirements

(1) The permittee shall submit semiannual reports and other such notifications and reports to the Northwest District Office as are required pursuant to 40 CFR Part 63 Subpart NNNN, per the following sections:

63.4120(a)	semiannual compliance report
63.4120(b)	content of semiannual reports
63.4120(c)	submission of deviation reports

63.4120(d)	submission of deviation reports

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63 Subpart NNN]

(2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
[OAC rule 3745-15-03(A)]

f) Testing Requirements

(1) None.

g) Miscellaneous Requirements

(1) None.

3. K007, Powder Paint #1

Operations, Property and/or Equipment Description:

Powder Bake Oven

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	See b)(2)a.
b.	OAC rule 3745-17-11(B)	See b)(2)b.
c.	OAC rule 3745-31-05 (PTI #03-1823, issued 9/19/84)	See b)(2)c.

(2) Additional Terms and Conditions

a. This emissions unit it exempt from the visible emissions limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.

b. This emissions unit is exempt from any particulate emissions limitation in OAC rule 3745-17-11 pursuant to OAC rule 3745-17-11 (A)(1)(a).

c. No limits, pursuant to OAC rule 3745-31-05, were established in PTI #03-1823 for this emissions unit.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) None.

g) Miscellaneous Requirements

(1) None.

4. K008, Small Parts E-Coat and rinse stages and Cure Oven

Operations, Property and/or Equipment Description:

Small parts e-coat line

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI #P0105679, issued 10/12/2010)	85.0 pounds volatile organic compounds (VOC)/hr. See b)(2)a.
b.	OAC rule 3745-31-05(D) (PTI #P0105679, issued 10/12/2010)	77.50 tons VOC per rolling, 12-month period. See b)(2)b.i. and c)(1)
c.	OAC rule 3745-21-09(K)(1)	2.8 pounds of VOC per gallon of coating, as a daily volume-weighted average, excluding water and exempt solvents. See b)(2)c.
d.	40 CFR, Part 60, Subpart SS	0.90 kg VOC/liter of applied coating solids, based on a monthly, volume-weighted average of the total mass of VOC's emitted to the atmosphere per volume of applied coating solids.
e.	40 CFR, Part 63, Subpart NNNN	Organic Hazardous Air Pollutants (HAPs) emissions to the atmosphere must be limited to no more than 0.13 kg/liter (1.1 lbs/gallon) of coating solids used during each compliance period.[40 CFR 63.4090(a)]
f.	40 CFR 63.1-15 (40 CFR 63.4101)	Table 2 to Subpart NNNN of 40 CFR Part 63 – Applicability of General Provisions to Subpart NNNN shows which parts of the General Provisions in 40 CFR 63.1-15

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		apply.

(2) Additional Terms and Conditions

a. The requirements of this rule also include compliance with the requirements of 40 CFR, Part 60, Subpart SS; 40 CFR, Part 63, Subpart NNNN; OAC rule 3745-21-09(K)(1) and OAC rule 3745-31-05(C).

b. This permit establishes the following federally enforceable emission limitations for the purposes of avoiding applicability of the Prevention of Significant Deterioration (PSD) regulations:

i. The VOC emissions shall not exceed 77.50 tons per rolling, 12-month period based on a production restriction (see c)(1)).

c. The VOC content of the coatings employed in the electro coating dip tank of this emissions unit shall comply with the VOC content limitation of 2.8 lbs VOC/gallon of coating, as a daily, volume-weighted average, excluding water and exempt solvents.

On any day when coating materials added to the dip tank exceed 2.8 pounds per gallon minus water and exempt solvents, as a daily volume-weighted average, the permittee shall perform a U.S. EPA Method 24 test to ensure that the resulting coating mixture (as applied) complies with the above limitation.

c) Operational Restrictions

(1) The maximum annual coating usage rate for this emissions unit shall not exceed 124,000 gallons per year, based upon a rolling, 12-month summation of the monthly coating usage rates.

[OAC rule 3745-77-07(A)(1) and PTI #P0105679]

(2) The VOC content of each coating mixture, as applied, shall not exceed 1.25 pounds per gallon.

[OAC rule 3745-77-07(A)(1) and PTI #P0105679]

(3) The permittee shall comply with the application restrictions required under 40 CFR Part 63 Subpart NNNN, including the following sections:

63.4100(a) – (e)	general compliance requirements

[OAC rule 3745-77-07(A)(1) and 40 CFR Part 63 Subpart NNNN]

d) Monitoring and/or Recordkeeping Requirements

(1) Each month, the permittee shall determine the monthly, volume-weighted average of the total mass of VOC's emitted to the atmosphere per volume of applied coating solids, in kilograms per liter, calculated as follows:

a. Calculate the mass of VOC's consumed (Mo+Md) during the calendar month by the following equation:

Mo+Md = [summation of (Lci X Dci X Woi) for i = 1,2,…,n + summation of (Ldj X Ddj) for j =1,2,…,m]

Where:

Mo = the total VOC emissions, in kilograms, from all the coatings consumed, as received

Md = the total VOC emissions, in kilograms, from all the solvents added to the coatings

Lci = the total volume, in liters, of coating i consumed, as received

Ldj = the total volume, in liters, of solvent j added to coatings

Dci = density of coating i, as received (kilograms per liter)

Ddj = density of solvent j added to coatings (kilograms per liter)

Woi = the fraction, by weight, of the VOC's in coating i, as received

n = the number of different coatings used during the calendar month

m = the number of different solvents added to coatings during the calendar month

b. Calculate the total volume of coatings solids used (Ls) in the calendar month by the following equation:

Ls = summation of (Lci X Vsi) for i = 1,2,…,n

Where:

Ls = the volume of all the coatings solids consumed (liters)

Lci = the volume of coating i consumed, as received (liters)

Vsi = the fraction, by volume, of the solids in coating i, as received

n = the number of different coatings used during the calendar month

c. Calculate the volume-weighted average mass of VOC's consumed per unit volume of coating solids applied during the calendar month by the following equation:

G = (Mo+Md)/(Ls X T)

Where:

G = the volume-weighted average mass of VOC's in coatings consumed in a calendar month per unit volume of applied coating solids (kilograms per liter)

T = transfer efficiency (0.95)

[OAC rule 3745-77-07(C)(1) and PTI #P0105679]

(2) The permittee shall collect and record the following information each day for the electro coating dip tank:

a. The name and identification number of each material added to the dip tank;

b. The VOC content, excluding water and exempt solvents, in pounds per gallon, of each material added to the dip tank;

c. The number of gallons of each material added to the dip tank, excluding water and exempt solvents; and

d. The daily, volume-weighted average VOC content of the combination of materials added to the dip tank, excluding water and exempt solvents, i.e., the sum of d)(2)b. x d)(2)c. for all the individual materials, divided by the total number of gallons of all materials.

[OAC rule 3745-77-07(C)(1) and PTI #P0105679]

(3) On days when the permittee adds coating materials to the small parts e-coat line that do not comply with the daily volume-weighted average of 2.8 pounds VOC per gallon of coating, excluding water and exempt solvents, the permittee shall record the results of the required U.S. EPA Method 24 test (See b)(2)c.).

[OAC rule 3745-77-07(C)(1) and PTI #P0105679]

(4) On days when the permittee does not comply with the VOC content restriction of each coating mixture, as applied, of 1.25 pound per gallon, the permittee shall record the results of the required U.S. EPA Method 24 test [See c)(2)].

[OAC rule 3745-77-07(C)(1) and PTI #P0105679]

(5) The permittee shall maintain monthly records of the following information for this emission unit:

a. The coating usage rate, in gallons;

b. The calculated VOC emissions for each month, in tons, using the following equation:

VOC emissions = (1.25 lbs VOC/gallon) x (d)(5)a.) x (ton/2000 lbs); and

[OAC rule 3745-77-07(C)(1) and PTI #P0105679]

(6) The permittee shall comply with the applicable monitoring and recordkeeping requirements required under 40 CFR Part 63 Subpart NNNN, including the following sections:

63.4130(a)	record of notification reports
63.4130(b)	record of manufacturer's data
63.4130(c)	record of HAP emission calculations
63.4130(d)	record of coating, thinner, and cleaning material
63.4130(e)	record of mass fraction of organic HAP for each coating, thinner, and cleaning material
63.4130(f)	record of volume fraction of coating solids
63.4130(g)	record of the density of each coating, thinner, and cleaning material
63.4130(h)	records of waste materials
63.4130(j)	records of deviations
63.4131(a) – (c)	maintenance of records

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63 Subpart NNNN]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the VOC emission limitation of 0.90 kg VOC/liter of coating solids (based on a monthly, volume-weighted average).

These reports shall be submitted in accordance with the reporting requirements specified in the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #P0105679]

(2) The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any daily record showing that the daily volume-weighted average VOC content exceeded the applicable limitation of 2.8 pounds VOC/gallon of coating, excluding water and exempt solvents. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 45 days after the exceedance occurs.

[OAC rule 3745-77-07(C)(1) and PTI #P0105679]

(3) The permittee shall submit quarterly reports of all days when a U.S. EPA Method 24 test was required. If no U.S. EPA Method 24 tests were required to be performed during the calendar quarter because the daily volume-weighted average VOC contents of materials added to the coating line were less than 2.8 pounds VOC per gallon coating, excluding water and exempt solvents, a statement indicating that fact will still be required.

These reports shall be submitted in accordance with the reporting requirements specified in the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #P0105679]

(4) The permittee shall submit deviation (excursion) reports which identify the following:

a. all exceedances of the rolling, 12-month VOC emission limitation of 77.50 tons;

b. all exceedances of the rolling, 12-month coatings usage restriction of 124,000 gallons; and

c. allexceedances of the 1.25 pound per gallon VOC content.

These reports shall be submitted in accordance with the reporting requirements specified in the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #P0105679]

(5) The permittee shall submit semiannual reports and other such notifications and reports to the Northwest District Office as are required pursuant to 40 CFR Part 63 Subpart NNNN, per the following sections:

63.4120(a)	semiannual compliance report
63.4120(b)	content of semiannual reports
63.4120(c)	submission of deviation reports
63.4120(d)	submission of deviation reports

[OAC rule 3745-77-07(C)(1) and 40 CFR Part 63 Subpart NNNN]

(6) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
[OAC rule 3745-15-03(A)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation: 85.0 lbs VOC/hr

Applicable Compliance Method: The hourly emission limitation represents the potential to emit* for this emissions unit. Therefore, no record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

*The potential to emit was calculated based on multiplying the maximum coating usage rate of 68 gallons per hour by the maximum VOC content of 1.25 pound per gallon.

If required, the permittee shall demonstrate compliance with the hourly allowable VOC emission limitation above based on the results of emission testing conducted in accordance with Methods 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #P0105679]

b. Emission Limitation: 77.50 tons of OC per rolling, 12-month period

Applicable Compliance Method: Compliance shall be based upon the record keeping requirements in section d(5) of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #P0105679]

c. Emission Limitation: 2.8 lbs of VOC per gallon of coating, as a daily, volume-weighted average, excluding water and exempt solvents.

Applicable Compliance Method: Compliance shall be based upon the record keeping required in section d(2) of the terms and conditions of this permit. The daily, volume-weighted average of all the materials added to the dip tank shall be calculated using the following equation:

daily, volume-weighted average = [summation of (Gi X VOCi)] / summation of Gi for i = 1 to n

where:

i = 1, 2, 3, n

n = the total number of the different types of materials added to the dip tank for that day

Gi = the number of gallons of material i (excluding water and exempt solvents) added to the dip tank for that day

VOCi = the VOC content of material i, in pounds/gallon of material, excluding water and exempt solvents

[OAC rule 3745-77-07(C)(1) and PTI #P0105679]

d. Emission Limitation: 0.90 kg VOC/liter of applied coating solids, based on a monthly, volume-weighted average of the total mass of VOC's emitted to the atmosphere per volume of applied coating solids.

Applicable Compliance Method: Compliance shall be based upon the record keeping required in section d)(1) of the terms and conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #P0105679]

e. Emission Limitation: Organic HAP emissions to the atmosphere must be limited to no more than 0.13 kg/liter (1.1 lbs/gallon of coating solids used during each compliance period.

Applicable Compliance Method: Compliance shall be based upon the record keeping as required by 40 CFR, Part 63, Subpart NNNN.

[OAC rule 3745-77-07(C)(1) and PTI #P0105679]

(2) If required, U.S. EPA Method 24 shall be used to determine the VOC contents of all the coatings, as applied.

g) Miscellaneous Requirements

(1) None.

5. N002, Pyrolysis Furnace #4

Operations, Property and/or Equipment Description:

Pyrolysis Furnace #4

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
b.	OAC rule 3745-17-09(B)	0.10 lb particulate emissions (PE)/100 lbs of liquid, semi-solid or solid refuse and salvageable material charged to the incinerator.
c.	OAC rule 3745-31-05(A)(3) (PTI #03-3149, issued 7/29/87)	0.1 lb PE/hr The requirements of this rule include compliance with OAC rules 3745-17-07(A) and 3745-17-09(B).

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions from this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also not the following in the operations log:

a. The color of emissions;

b. Whether the emissions are representative of normal operations;

c. If the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. The total duration of any visible emissions incident; and

e. Any corrective action taken to eliminate the visible emissions.

[OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions were observed from this emissions unit and (b) describe any corrective action taken to eliminate the visible particulate emissions. These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(C)(1)]

(2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
[OAC rule 3745-15-03(A)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitation:</u>

Visible emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule

<u>Applicable Compliance Method:</u>

If required, compliance with the visible emissions limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).

[OAC rule 3745-77-07(C)(1)]

b. <u>Emission Limitation:</u>

0.10 lb PE/100 lbs of liquid, semi-solid or solid refuse and salvageable material charged to the incinerator

Applicable Compliance Method:

If required, compliance with the PE limitation above shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(10)

[OAC rule 3745-77-07(C)(1)]

c. Emission Limitation:

0.1 lb PE/hr

Applicable Compliance Method:
If required, compliance with the hourly PE limitation shall be determined in accordance with Methods 1-5 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.

6. N008, Pyrolysis Furnace #8

Operations, Property and/or Equipment Description:

Controlled Pyrolysis Cleaning Furnace

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	See b)(2)a.
b.	OAC rule 3745-17-09(B)	0.10 lb particulate emissions (PE)/100 lbs of liquid, semi-solid or solid refuse and salvageable material charged to the incinerator
c.	OAC rule 3745-31-05 (PTI #03-13565, issued 3/13/01)	1.50 lbs PE/hr and 6.60 tons/year See b)(2)b. and b)(2)c. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-09(B).

(2) Additional Terms and Conditions

a. The emission limitation specified in this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.

b. Best available technology (BAT) for this emissions unit has been determined to be the use of an afterburner.

c. Visible emissions from this emissions unit shall not exceed 5% opacity, except for 6 minutes in any continuous period during which opacity shall not exceed 10%.

c) Operational Restrictions

(1) The emissions unit shall be installed, operated and maintained in accordance with the manufacturer's specifications. The permittee shall not change any of the manufacturer's factory preset parameters for the furnace, or physically modify the furnace in any way, without first verifying with the manufacturer that the change(s) would not adversely affect air contaminant emissions from the unit.

[OAC rule 3745-77-07(A)(1) and PTI #03-13565]

(2) The air contaminant control device for this emissions unit shall be designed and operated in accordance with the following requirements:

a. The secondary combustion chamber shall be operated so that the exit gas temperature from the chamber is, at a minimum, 1500 degrees Fahrenheit, taking into account normal start-up procedures.

b. The secondary chamber shall allow for a minimum retention time of 0.5 second at 1500 degrees Fahrenheit, taking into account normal start-up procedures.

[OAC rule 3745-77-07(A)(1) and PTI #03-13565]

(3) The permittee shall adhere to the manufacturer's recommendations pertaining to the operation of this furnace and shall comply with the following operational restrictions:

a. The permittee shall ensure that the furnace is operated only by properly trained personnel who have read, and understand the furnace's operation manual;

b. Prior to start-up of the furnace, the permittee shall remove ash residue left inside the furnace after the previous cycle;

c. The permittee shall not operate the furnace if the built-in safeguards and interlocks (furnace excess temperature, afterburner excess temperature, low gas pressure switch, high gas pressure switch, and low water pressure switch) are not operating properly; and

d. The permittee shall not process uncured paint or paint sludge, paint filter, waste powder from powder coating operations, nitrocellulose paints, solvents, thinners, PVC, lead, plastisols, rubber-coated material, oil materials as defined in 40 CFR Part 261, Subpart D in this furnace. Paint hooks covered with coatings that may contain chlorine (e.g. PVC), fluorine (e.g. Teflon), or elements other than carbon, hydrogen, and oxygen are also prohibited from being processed in this furnace.

[OAC rule 3745-77-07(A)(1) and PTI #03-13565]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit it in operation and when the weather conditions allow, for any visible emissions from this emissions unit. The presence of absence of any visible emissions shall be noted in an operations log. If

visible emissions are observed, the permittee shall also note the following in the operations log:

a. The color of the emissions;

b. Whether the emissions are representative of normal operations;

c. If the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. The total duration of any visible emission incident; and

e. Any corrective actions taken to eliminate the visible emissions.

[OAC rule 3745-77-07(C)(1) and PTI #03-13565

(2) The permittee shall install, operate and properly maintain a temperature gauge which monitors the temperature of the secondary combustion chamber. The permittee shall record the secondary combustion chamber temperature prior to each batch operation.

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

(3) The permittee shall install, operate, and properly maintain a temperature gauge which monitors the temperature of the secondary combustion chamber. The permittee shall record the secondary combustion chamber prior to each batch operation.

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

(4) The permittee shall maintain an operation/maintenance log for the emissions unit. The log, at a minimum shall contain the following information:

a. The dates the emissions unit was operated

b. The number of batches processed for each date the emissions unit was operated; and

c. The dates and descriptions of any additional maintenance activities performed on this emissions unit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that provide the following information for each period during which the secondary chamber exhaust gas temperature fell below the applicable requirement:

a. The date of the excursion;

b. The temperature values during the excursion;

c. The cause(s) for the excursion; and

d. The corrective action which has been or will be taken to prevent similar excursions in the future.

These quarterly deviation reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

(2) The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions were observed from this emissions unit and (b) describe any corrective action taken to eliminate the visible the visible particulate emissions. These reports shall be submitted January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

(1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
[OAC rule 3745-15-03(A)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitation:</u>

0.10 lb PE/100 lbs of liquid, semi-solid or solid refuse and salvageable material charged to the incinerator.

<u>Applicable Compliance Method:</u>

If required, compliance with the PE limitation above shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(10).

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

b. <u>Emission Limitation:</u>

1.50 lbs PE/hr

<u>Applicable Compliance Method:</u>

The hourly allowable PE limitation was developed by applying the requirement of 0.1 lb PE/100 lbs material charged to a maximum charging capacity of 1500 lbs/hr. If required, compliance with hourly allowable PE limitation shall be

determined in accordance with Methods 1 through 5 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

c. Emission Limitation:

6.60 TPY PE

Applicable Compliance Method:

The annual allowable PE limitation was developed by multiplying the hourly allowable PE limitation by 8760 hours/year, and then by dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

d. Emission Limitation:

5% opacity, except for 6 minutes in any continuous 60 minute period during which opacity shall not exceed 10%.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

g) Miscellaneous Requirements

(1) None.

7. N009, Pyrolysis Furnace #9

Operations, Property and/or Equipment Description:

Controlled Pyrolysis Cleaning Furnace

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	See b)(2)a.
b.	OAC rule 3745-17-09(B)	0.10 lb particulate emissions (PE)/100 lbs of liquid, semi-solid or solid refuse and salvageable material charged to the incinerator
	OAC rule 3745-31-05 (PTI #03-13565, issued 3/13/01)	1.50 lbs PE/hr and 6.60 tons/year See b)(2)b. and b)(2)c. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-09(B).

(2) Additional Terms and Conditions

a. The emission limitation specified in this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.

b. Best available technology (BAT) for this emissions unit has been determined to be the use of an afterburner.

c. Visible emissions from this emissions unit shall not exceed 5% opacity, except for 6 minutes in any continuous period during which opacity shall not exceed 10%.

c) Operational Restrictions

(1) The emissions unit shall be installed, operated and maintained in accordance with the manufacturer's specifications. The permittee shall not change any of the manufacturer's factory preset parameters for the furnace, or physically modify the furnace in any way, without first verifying with the manufacturer that the change(s) would not adversely affect air contaminant emissions from the unit.

[OAC rule 3745-77-07(A)(1) and PTI #03-13565]

(2) The air contaminant control device for this emissions unit shall be designed and operated in accordance with the following requirements:

a. The secondary combustion chamber shall be operated so that the exit gas temperature from the chamber is, at a minimum, 1500 degrees Fahrenheit, taking into account normal start-up procedures.

b. The secondary chamber shall allow for a minimum retention time of 0.5 second at 1500 degrees Fahrenheit, taking into account normal start-up procedures.

[OAC rule 3745-77-07(A)(1) and PTI #03-13565]

(3) The permittee shall adhere to the manufacturer's recommendations pertaining to the operation of this furnace and shall comply with the following operational restrictions:

a. The permittee shall ensure that the furnace is operated only by properly trained personnel who have read, and understand the furnace's operation manual;

b. Prior to start-up of the furnace, the permittee shall remove ash residue left inside the furnace after the previous cycle;

c. The permittee shall not operate the furnace if the built-in safeguards and interlocks (furnace excess temperature, afterburner excess temperature, low gas pressure switch, high gas pressure switch, and low water pressure switch) are not operating properly; and

d. The permittee shall not process uncured paint or paint sludge, paint filter, waste powder from powder coating operations, nitrocellulose paints, solvents, thinners, PVC, lead, plastisols, rubber-coated material, oil materials as defined in 40 CFR Part 261, Subpart D in this furnace. Paint hooks covered with coatings that may contain chlorine (e.g. PVC), fluorine (e.g. Teflon), or elements other than carbon, hydrogen, and oxygen are also prohibited from being processed in this furnace.

[OAC rule 3745-77-07(A)(1) and PTI #03-13565]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit it in operation and when the weather conditions allow, for any visible emissions from this emissions unit. The presence of absence of any visible emissions shall be noted in an operations log. If

visible emissions are observed, the permittee shall also note the following in the operations log:

a. The color of the emissions;

b. Whether the emissions are representative of normal operations;

c. If the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. The total duration of any visible emission incident; and

e. Any corrective actions taken to eliminate the visible emissions.

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

(2) The permittee shall install, operate and properly maintain a temperature gauge which monitors the temperature of the secondary combustion chamber. The permittee shall record the secondary combustion chamber temperature prior to each batch operation.

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

(3) The permittee shall install, operate, and properly maintain a temperature gauge which monitors the temperature of the secondary combustion chamber. The permittee shall record the secondary combustion chamber prior to each batch operation.

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

(4) The permittee shall maintain an operation/maintenance log for the emissions unit. The log, at a minimum shall contain the following information:

a. The dates the emissions unit was operated

b. The number of batches processed for each date the emissions unit was operated; and

c. The dates and descriptions of any additional maintenance activities performed on this emissions unit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that provide the following information for each period during which the secondary chamber exhaust gas temperature fell below the applicable requirement:

a. The date of the excursion;

b. The temperature values during the excursion;

c. The cause(s) for the excursion; and

d. The corrective action which has been or will be taken to prevent similar excursions in the future.

These quarterly deviation reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

(2) The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions were observed from this emissions unit and (b) describe any corrective action taken to eliminate the visible the visible particulate emissions. These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

(1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
[OAC rule 3745-15-03(A)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitation:</u>

0.10 lb PE/100 lbs of liquid, semi-solid or solid refuse and salvageable material charged to the incinerator.

<u>Applicable Compliance Method:</u>

If required, compliance with the PE limitation above shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(10).

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

b. <u>Emission Limitation:</u>

1.50 lbs PE/hr

<u>Applicable Compliance Method:</u>

The hourly allowable PE limitation was developed by applying the requirement of 0.1 lb PE/100 lbs material charged to a maximum charging capacity of 1500 lbs/hr. If required, compliance with hourly allowable PE limitation shall be

determined in accordance with Methods 1 through 5 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

c. Emission Limitation:

6.60 TPY PE

Applicable Compliance Method:

The annual allowable PE limitation was developed by multiplying the hourly allowable PE limitation by 8760 hours/year, and then by dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

d. Emission Limitation:

5% opacity, except for 6 minutes in any continuous 60 minute period during which opacity shall not exceed 10%.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13565]

g) Miscellaneous Requirements

(1) None.

8. N010, Pyrolysis Furnace #10

Operations, Property and/or Equipment Description:

Pyrolysis furnace with afterburner

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	See b)(2)a.
b.	OAC rule 3745-17-09(B)	See b)(2)a.
c.	OAC rule 3745-31-05(A)(3) (PTI #03-13606, issued 6/19/01)	0.13 lb PE/hr and 0.57 tons PE/year 0.05 lb PE/100 lbs material charged Control requirements [see b)(2)b.] Visible emission restrictions [see b)(2)c.] See b)(2)d.

(2) Additional Terms and Conditions

a. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

b. Best Available Technology (BAT) for this emissions unit has been determined to be the use of an afterburner.

c. Visible particulate emissions from this emissions unit shall not exceed 5% opacity except for 6 minutes in any continuous period during which opacity shall not exceed 10%.

d. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-09(B).

c) Operational Restrictions

(1) The emissions unit shall be installed, operated and maintained in accordance with the manufacturer's specifications. The permittee shall not change any of the manufacturer's factory preset parameters for the furnace, or physically modify the furnace in any way, without first verifying with the manufacturer that the change(s) would not adversely affect air contaminant emissions from the unit.

[OAC rule 3745-77-07(A)(1) and PTI #03-13606]

(2) The air contaminant control device for this emissions unit shall be designed and operated in accordance with the following requirements:

a. The secondary combustion chamber shall be operated so that the exit gas temperature from the chamber is, at a minimum, 1500 degrees Fahrenheit, taking into account normal start-up procedures.

b. The secondary chamber shall allow for a minimum retention time of 0.5 second at 1500 degrees Fahrenheit, taking into account normal start-up procedures.

[OAC rule 3745-77-07(A)(1) and PTI #03-13606]

(3) The permittee shall adhere to the manufacturer's recommendations pertaining to the operation of this furnace and shall comply with the following operational restrictions:

a. The permittee shall ensure that the furnace is operated only by properly trained personnel who have read, and understand the furnace's operation manual;

b. Prior to start-up of the furnace, the permittee shall remove ash residue left inside the furnace after the previous cycle;

c. The permittee shall not operate the furnace if the built-in safeguards and interlocks (furnace excess temperature, afterburner excess temperature, low gas pressure switch, high gas pressure switch, and low water pressure switch) are not operating properly; and

d. The permittee shall not process uncured paint or paint sludge, paint filter, waste powder from powder coating operations, nitrocellulose paints, solvents, thinners, PVC, lead, plastisols, rubber-coated material, oil materials as defined in 40 CFR Part 261, Subpart D in this furnace. Paint hooks covered with coatings that may contain chlorine (e.g. PVC), fluorine (e.g. Teflon), or elements other than carbon, hydrogen, and oxygen are also prohibited from being processed in this furnace.

[OAC rule 3745-77-07(A)(1) and PTI #03-13606]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall install, operate, and properly maintain a temperature gauge which monitors the temperature of the secondary combustion chamber. The permittee shall record the secondary combustion chamber prior to each batch operation.

[OAC rule 3745-77-07(C)(1) and PTI #03-13606]

(2) The permittee shall maintain an operation/maintenance log for the emissions unit. The log, at a minimum shall contain the following information:

a. The dates the emissions unit was operated

b. The number of batches processed for each date the emissions unit was operated; and

c. The dates and descriptions of any additional maintenance activities performed on this emissions unit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13606]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that provide the following information for each period during which the secondary chamber exhaust gas temperature fell below the applicable requirement:

a. The date of the excursion;

b. The temperature values during the excursion;

c. The cause(s) for the excursion; and

d. The corrective action which has been or will be taken to prevent similar excursions in the future.

These quarterly deviation reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13606]

(2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
[OAC rule 3745-15-03(A)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitation:</u>

0.13 lb PE/hr and 0.57 tons PE/yr

Applicable Compliance Method:

The lb/hr emission limitation was developed by multiplying the emission limitation of 0.05 lb PE/100 lbs of material charged by a maximum charging rate of 2100 lbs/8hrs. If required, compliance with the particulate emission limitations shall be determined in accordance with the test method and procedures in Method 5 of 40 CFR Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13606]

The ton/yr limit was developed by multiplying the lb/hr limitation by 8760 hrs/yr operations and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the lb/hr limitation, compliance will be shown with the annual limitation.

b. Emission Limitation:

0.05 lb PE/100 lbs of material charged

Applicable Compliance Method:

This emission limitation was established with the company supplied data from a similar emissions unit. If required, compliance with the particulate emission limitation shall be determined in accordance with the test procedures in Method 5 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13606]

c. Emission Limitation:

5% opacity except for 6 minutes in any continuous 60 minute period during which opacity shall not exceed 10%.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13606]

g) Miscellaneous Requirements

(1) None.

9. N011, Pyrolysis Furnace #11

Operations, Property and/or Equipment Description:

Pyrolysis furnace with afterburner

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	See b)(2)a.
b.	OAC rule 3745-17-09(B)	See b)(2)a.
	OAC rule 3745-31-05(A)(3) (PTI #03-13606, issued 6/19/01)	0.13 lb PE/hr and 0.57 tons PE/year 0.05 lb PE/100 lbs material charged Control requirements [see b)(2)b.] Visible emission restrictions [see b)(2)c.] See b)(2)d.

(2) Additional Terms and Conditions

a. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

b. Best Available Technology (BAT) for this emissions unit has been determined to be the use of an afterburner.

c. Visible particulate emissions from this emissions unit shall not exceed 5% opacity except for 6 minutes in any continuous period during which opacity shall not exceed 10%.

d. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-09(B).

c) Operational Restrictions

(1) The emissions unit shall be installed, operated and maintained in accordance with the manufacturer's specifications. The permittee shall not change any of the manufacturer's factory preset parameters for the furnace, or physically modify the furnace in any way, without first verifying with the manufacturer that the change(s) would not adversely affect air contaminant emissions from the unit.

[OAC rule 3745-77-07(A)(1) and PTI #03-13606]

(2) The air contaminant control device for this emissions unit shall be designed and operated in accordance with the following requirements:

a. The secondary combustion chamber shall be operated so that the exit gas temperature from the chamber is, at a minimum, 1500 degrees Fahrenheit, taking into account normal start-up procedures.

b. The secondary chamber shall allow for a minimum retention time of 0.5 second at 1500 degrees Fahrenheit, taking into account normal start-up procedures.

[OAC rule 3745-77-07(A)(1) and PTI #03-13606]

(3) The permittee shall adhere to the manufacturer's recommendations pertaining to the operation of this furnace and shall comply with the following operational restrictions:

a. The permittee shall ensure that the furnace is operated only by properly trained personnel who have read, and understand the furnace's operation manual;

b. Prior to start-up of the furnace, the permittee shall remove ash residue left inside the furnace after the previous cycle;

c. The permittee shall not operate the furnace if the built-in safeguards and interlocks (furnace excess temperature, afterburner excess temperature, low gas pressure switch, high gas pressure switch, and low water pressure switch) are not operating properly; and

d. The permittee shall not process uncured paint or paint sludge, paint filter, waste powder from powder coating operations, nitrocellulose paints, solvents, thinners, PVC, lead, plastisols, rubber-coated material, oil materials as defined in 40 CFR Part 261, Subpart D in this furnace. Paint hooks covered with coatings that may contain chlorine (e.g. PVC), fluorine (e.g. Teflon), or elements other than carbon, hydrogen, and oxygen are also prohibited from being processed in this furnace.

[OAC rule 3745-77-07(A)(1) and PTI #03-13606]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall install, operate, and properly maintain a temperature gauge which monitors the temperature of the secondary combustion chamber. The permittee shall record the secondary combustion chamber prior to each batch operation.

[OAC rule 3745-77-07(C)(1) and PTI #03-13606]

(2) The permittee shall maintain an operation/maintenance log for the emissions unit. The log, at a minimum shall contain the following information:

a. The dates the emissions unit was operated

b. The number of batches processed for each date the emissions unit was operated; and

c. The dates and descriptions of any additional maintenance activities performed on this emissions unit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13606]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that provide the following information for each period during which the secondary chamber exhaust gas temperature fell below the applicable requirement:

a. The date of the excursion;

b. The temperature values during the excursion;

c. The cause(s) for the excursion; and

d. The corrective action which has been or will be taken to prevent similar excursions in the future.

These quarterly deviation reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.

[OAC rule 3745-77-07(C)(1) and PTI #03-13606]

(2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
[OAC rule 3745-15-03(A)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitation:</u>

0.13 lb PE/hr and 0.57 tons PE/yr

Applicable Compliance Method:

The lb/hr emission limitation was developed by multiplying the emission limitation of 0.05 lb PE/100 lbs of material charged by a maximum charging rate of 2100 lbs/8hrs. If required, compliance with the particulate emission limitations shall be determined in accordance with the test method and procedures in Method 5 of 40 CFR Part 60, Appendix A.

The ton/yr limit was developed by multiplying the lb/hr limitation by 8760 hrs/yr operations and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the lb/hr limitation, compliance will be shown with the annual limitation.

[OAC rule 3745-77-07(C)(1) and PTI #03-13606]

b. Emission Limitation:

0.05 lb PE/100 lbs of material charged

Applicable Compliance Method:

This emission limitation was established with the company supplied data from a similar emissions unit. If required, compliance with the particulate emission limitation shall be determined in accordance with the test procedures in Method 5 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13606]

c. Emission Limitation:

5% opacity except for 6 minutes in any continuous 60 minute period during which opacity shall not exceed 10%.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI #03-13606]

g) Miscellaneous Requirements

(1) None.

10. Emissions Unit Group -Ovens: N012,N013,

EU ID	Operations, Property and/or Equipment Description
N012	Pyrolysis Oven with afterburner.
N013	Pyrolysis Oven with afterburner.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI #03-17461, issued 9/12/08)	1.50 lbs particulate emissions(PE)/hr, 6.60 tons PE/yr See b)(2)a. and b)(2)b. Visible Emission Restrictions [See b)(2)d.]
b.	OAC rule 3745-17-09(B)	0.10 lbs PE/100 lbs of material charged
	OAC rule 3745-17-07(A)	See b)(2)c.

(2) Additional Terms and Conditions

a. Best Available Technology (BAT) for these emissions unithas been determined to be the use of an afterburner.

b. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-09(B).

c. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

d. Visible particulate emissions from these emissions unit shall not exceed 5% opacity except for 6 minutes in any continuous period during which opacity shall not exceed 10%.

c) Operational Restrictions

(1) Emissions units N012 and N013 shall be installed, operated and maintained in accordance with the manufacturer's specifications. The permittee shall not change any of the manufacturer's factory preset parameters for the furnace, or physically modify the furnace in any way, without first verifying with the manufacturer that the change(s) would not adversely affect air contaminant emissions from the unit's.

[OAC rule 3745-77-07(A)(1) and PTI 03-17461]

(2) The air contaminant control device for emissions units N012 and N013 shall be designed and operated in accordance with the following requirements:

a. The secondary combustion chamber shall be operated so that the exit gas temperature from the chamber is, at a minimum, 1500 degrees Fahrenheit, taking into account normal start-up procedures.

b. The secondary chamber shall allow for a minimum retention time of 0.5 seconds at 1500 degrees Fahrenheit, taking into account normal start-up procedures.

[OAC rule 3745-77-07(A)(1) and PTI 03-17461]

(3) The permittee shall adhere to the manufacturer's recommendations pertaining to the operation of furnace N012 and N013 and shall comply with the following restrictions:

a. The permittee shall ensure that the furnace is operated only by properly trained personnel who have read, and understand, the furnace's operation manual;

b. Prior to start-up of the furnaces, the permittee shall remove ash residue left inside the furnace after the previous cycle;

c. The permittee shall not operate the furnaces if the built-in safeguards and interlocks (furnace excess temperature, afterburner excess temperature, low gas pressure switch, high gas pressure switch and low water pressure switch) are not operating properly; and

d. The permittee shall not process uncured paint or paint sludge, paint filter, waste powder from powder coating operations, nitrocellulose paints, solvents, thinners, PVC, lead, plastisols, rubber-coated material, oil, wood, grease, trash, magnesium, oil filters, ammunition, explosives, fertilizer, or any hazardous waste materials as defined in 40 CFR Part 261, Subpart D in the furnaces. Paint hooks covered with coatings that may contain chlorine (e.g. PVC), fluorine (e.g. Teflon), or elements other than carbon, hydrogen, and oxygen are also prohibited from being processed in this furnace.

[OAC rule 3745-77-07(A)(1) and PTI 03-17461]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall install, operate and properly maintain a temperature gauge which monitors the temperature of the secondary combustion chamber. The permittee shall record the secondary combustion chamber temperature prior to each batch operation.

[OAC rule 3745-77-07(C)(1) and PTI 03-17461]

(2) The permittee shall maintain an operation/maintenance log for emissions units N012 and N013. The log, at a minimum shall contain the following information:

a. The dates the emissions units were operated;

b. The number of batches processed in each emissions unit for each date the emissions units were operated; and

c. The dates and descriptions of any additional maintenance activities performed on the emissions units N012 and N013.

[OAC rule 3745-77-07(C)(1) and PTI 03-17461]

e) Reporting Requirements

(1) The permittee shall submit deviation (excursion) reports which provide the following information for each period during which the secondary chamber exhaust gas temperature fell below the applicable requirement for emissions units N012 and N013:

a. The date of the excursion;

b. The temperature values during the excursion;

c. The cause(s) for the excursion; and

d. The corrective action which has been or will be taken to prevent similar excursions in the future.

[OAC rule 3745-77-07(C)(1) and PTI 03-17461]

(2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
[OAC rule 3745-15-03(A)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

1.50 lbs PE/hr

Applicable Compliance Method:

The pound/hr emissions limitation was developed by applying the requirement of 0.1 lb PE/100 lbs material charged to a maximum charging capacity of 1500 lbs/hr. If required, compliance with the particulate emission limitations shall be determined in accordance with the test method and procedures in Method 5 of 40 CFR Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI 03-17461]

b. Emission Limitation:

6.60 tons PE/yr

Applicable Compliance Method:

The ton per year limit was developed by multiplying the lb/hr limitation by 8760 hrs/yr and dividing by the 2000 lbs/ton. Therefore, provided compliance is shown with the lb/hr limitation, compliance will also be shown with the annual limitation.

[OAC rule 3745-77-07(C)(1) and PTI 03-17461]

c. Emission Limitation:

Visible particulate emissions shall not exceed 5% opacity except for 6 minutes in any continuous 60 minute period during which the opacity shall not exceed 10%.

[OAC rule 3745-77-07(C)(1) and PTI 03-17461]

Applicable Compliance Method:

Method 9 of 40 CFR Part 60, Appendix A

d. Emission Limitation:

0.01 lb PE/100 lbs of material charged

Applicable Compliance Method:

If required, compliance shall be determined in accordance with the test method and procedures in OAC rule 3745-17-03(B)(3).

[OAC rule 3745-77-07(C)(1) and PTI 03-17461]

g) Miscellaneous Requirements

(1) None.