Ohio Environmental Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

2/26/2016

Certified Mail

Mr. Alan Sampson
OMNOVA Solutions Inc.
165 S. Cleveland Avenue
Mogadore, OH 44260

Facility ID: 1667000007
Permit Number: P0115761
County: Portage

RE: PRELIMINARY PROPOSED AIR POLLUTION TITLE V PERMIT
Permit Type: Initial

Dear Permit Holder:

Enclosed is the Ohio Environmental Protection Agency (EPA)Preliminary Proposed Title V permit that was issued in draft form on 1/12/2016. The comment period for the Draft permit has ended. We are now ready to submit this permit to U.S. EPA for approval.

We are submitting this for your review and comment. If you do not agree with the Preliminary Proposed Title V permit as written, you now have the opportunity to raise your concerns. 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. Comments will be accepted as a marked-up copy of the permit or in narrative format. Any comments must be sent to the following within 14 days of your receipt of this letter:

Andrew Hall
Permit Review/Development Section
Ohio EPA, DAPC
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049

and

Akron Regional Air Quality Management District
1867 West Market St.
Akron, OH 44313

If you believe that it is necessary to have an informal conference with us, then, as part of your written comments, you should request a conference concerning the written comments.If comments are not submitted within 14 days of your receipt of this letter, we will forward the proposed permit to U.S. EPA for approval. All comments received will be carefully considered before proceeding with the proposed permit.

Sincerely,

Michael E. Hopkins, P.E
Assistant ChiefPermitting Section, DAPC

Cc: Akron Regional Air Quality Management District

Response to Comments

Facility ID:	1667000007
Facility Name:	OMNOVA Solutions Inc.
Facility Description:	Synthetic Polymer Manufacturing
Facility Address:	165 S. CLEVELAND AVENUE Mogadore, OH 44260 Portage County
Permit:	P0115761, Title V Permit - Initial
A public notice for the draft permit issuance was published in the Ohio EPA Weekly Review and appeared in the The Record Courier on 01/19/2016. The comment period ended on 02/18/2016.	
Hearing date (if held)	
Hearing Public Notice Date (if different from draft public notice)	

The following comments were received during the comment period specified. Ohio EPA reviewed and considered all comments received during the public comment period. By law, Ohio EPA has authority to consider specific issues related to protection of the environment and public health. Often, public concerns fall outside the scope of that authority. For example, concerns about zoning issues are addressed at the local level. Ohio EPA may respond to those concerns in this document by identifying another government agency with more direct authority over the issue.

In an effort to help you review this document, the questions are grouped by topic and organized in a consistent format. PDF copies of the original comments in the format submitted are available upon request.

1. **No comments received.**

PRELIMINARY PROPOSED

Division of Air Pollution Control
Title V Permit
for
OMNOVA Solutions Inc.

Facility ID:	1667000007
Permit Number:	P0115761
Permit Type:	Initial
Issued:	2/26/2016
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance

Ohio Environmental Protection Agency

Division of Air Pollution Control
Title V Permit
for
OMNOVA Solutions Inc.

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Ohio Environmental Protection Agency

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Authorization

Facility ID:	1667000007
Facility Description:	Synthetic Polymer Manufacturing
Application Number(s):	A0048783, A0049531, A0049623
Permit Number:	P0115761
Permit Description:	Initial Title V permit for the Latex and Resin Polymerication & Degassing Process (P004), the Wastewater Effluent System (P013), the Butadiene Distillation Column (P014), the PolyFox Process (P101), the Pilot Plant Latex Strippers (P103), the Pilot Plant in-mold coating production (P106), two processes for the manufacture of polymers for R&D purposes, and from scale-up and semi-works operations (P110 and P115) and two Hi-Pressure Water Jetting Diesel Units (P017 and P018).
Permit Type:	Initial
Issue Date:	2/26/2016
Effective Date:	To be entered upon final issuance
Expiration Date:	To be entered upon final issuance
Superseded Permit Number:	

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

OMNOVA Solutions Inc.
165 S. CLEVELAND AVENUE
Mogadore, OH 44260

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

Akron Regional Air Quality Management District
1867 West Market St.
Akron, OH 44313
(330)375-2480

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 Akron Regional Air Quality Management District. 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 and no later than 6 months prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Craig W. Butler
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 For State-Only Requirements

(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

(5) Standard Term and Condition A. 30.

(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 recordingsfor 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 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 submittedscheduled maintenancerequests, 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 submitted promptly to the Akron Regional Air Quality Management District. Except as provided below, the written reports shall be submitted 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 to the Akron Regional Air Quality Management District 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." Signature by the Responsible Official may be represented by entry of the personal identification number (PIN) by the Responsible Official as part of the electronic submission process or by the scanned attestation document signed by the Responsible Official that is attached to the electronically submitted written report.

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

(5) Consistent with A.2.c.1. above, reports of any required monitoring and/or record keeping information required to be submitted to Ohio EPA shall be submitted to Akron Regional Air Quality Management District unless otherwise specified.

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

3. Reporting of Any Exceedence of a Federally Enforceable Emission Limitation or Control Requirement Resulting From 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) 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 permitexcept as provided pursuant to A.16 below.

c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with 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

Officialthat, 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 Akron Regional Air Quality Management District 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 Akron Regional Air Quality Management District) 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 on or before April 30th of each year during the permit term.

(2) Compliance certifications shall include the following:

a. Identification of each term or condition that is the basis of the certification. The identification may include a statement by the Responsible Official that every term and condition that is federally enforceable has been reviewed, and such terms and conditions with which there has been continuous compliance throughout the year are not separately identified.

b. The permittee's current compliance status.

c. Whether compliance was continuous or intermittentconsistent with A.13.d.2.a above.

d. The method(s) used for determining the compliance status of the source currently and over the required reporting period consistent with A.13.d.2.a above.

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 Akron Regional Air Quality Management District 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 Akron Regional Air Quality Management District 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 Federal Register 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 is subject to 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.

Unless otherwise exempted, noemissions unit identified in this permit that has beencertified 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 operating 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 theAkron Regional Air Quality Management District.

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 Akron Regional Air Quality Management District. 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 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 For State-Only Requirements

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 Akron Regional Air Quality Management District 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 Akron Regional Air Quality Management District 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 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 potential to emit; or

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

30. Submitting Documents Required by this Permit

All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event ofan alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the Akron Regional Air Quality Management District, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the Responsible Official may be represented as provided through procedures established in Air Services.

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 units contained in this permit are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines, 40 CFR Part 63, Subpart ZZZZ: B022 and B024 (See Terms and Conditions B.3 through B.8 of the Facility-Wide Terms and Conditions) and P017 and P018 (See C.3 of the Emissions Unit Terms and Conditions). The complete NESHAP requirements, including the General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website http://www.ecfr.gov/ or by contacting Akron Regional Air Quality Management District (ARAQMD).

3. Existing emergency stationary compression ignition (CI) reciprocating internal combustion engines (RICE), located at an area source for hazardous air pollutants (HAP), shall meet the requirements of 40 CFR Part 63, Subpart ZZZZ.

4. You must comply with the requirements in Table 2d to this subpart that apply to you.

   [Authority for Term: §63.6603 of 40 CFR Part 63, Subpart ZZZZ]

5. The emergency stationary CI RICE is subject to and shall be operated in compliance with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ, the NESHAP for Stationary Reciprocating Internal Combustion Engines at all times. Compliance with the NESHAP includes the maintenance requirements and operating limitations from #4 in Table 2d to the subpart.

   [Authority for Term: §63.6605(a) of 40 CFR Part 63, Subpart ZZZZ]

6. Operational Restrictions

   a) The emergency stationary RICE must be operated according to the following requirements in order to be considered an emergency stationary RICE under 40 CFR Part 63, Subpart ZZZZ, otherwise it shall meet all of the requirements for non-emergency engines.

      (1) There is no time limit on the use of emergency stationary RICE in emergency situations.

      (2) You may operate your emergency stationary RICE for any combination of the purposes specified in 6.a)(2)a. through 6.a)(2)c. below for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 6.a)(3) below counts as part of the 100 hours per calendar year allowed by this paragraph.

         a. Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local

standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

b. Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

c. Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

(3) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph 6.a)(2) above. Except as provided in 6.a)(3)a. below, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

a. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

i. The engine is dispatched by the local balancing authority or local transmission and distribution system operator.

ii. The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

iii. The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

iv. The power is provided only to the facility itself or to support the local transmission and distribution system.

v. The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

[Authority for Term: §63.6640(f) of 40 CFR Part 63, Subpart ZZZZ]

(4) The stationary CI RICE shall be operated and maintained at all times in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by 40 CFR Part 63, Subpart ZZZZ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[Authority for Term: §63.6605(b) of 40 CFR Part 63, Subpart ZZZZ]

(5) Unless meeting the requirements of 40 CFR 63.6625(i), the permittee shall change the oil and filter every 500 hours of operation or annually, whichever comes first; shall inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first; and shall inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace them as necessary. A log shall be maintained for the date of each oil/filter change and inspection.

[Authority for Term: §63.6625(i) and #4 in Table 2d of 40 CFR Part 63, Subpart ZZZZ]

(6) If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.

[Authority for Term: Note 2 in Table 2d of 40 CFR Part 63, Subpart ZZZZ]

(7) The permittee shall minimize the engine's time spent at idle during startup and shall minimize the startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

[Authority for Term: §63.6625(h) of 40 CFR Part 63, Subpart ZZZZ]

(8) The permittee shall install a non-resettable hour meter if one is not already installed.

[Authority for Term: §63.6625(f) of 40 CFR Part 63, Subpart ZZZZ]

7. Monitoring and/or Recordkeeping Requirements

a) In order to demonstrate compliance with the work and management practices identified in Table 2d to the subpart; continuous compliance according to #9 in Table 6; and to document that the engine was operated and maintained according to the facility's maintenance plan and work and management practices, the permittee shall maintain records of: the maintenance and inspections conducted on the stationary RICE in conjunction with records for the hours of

operation and a record of each idle and/or startup time that exceeded 30 minutes. These records shall be maintained for at least 5 years after the date of implementation.

[Authority for Term: §63.6655(e)(2)and #4 in Table 2d of 40 CFR Part 63, Subpart ZZZZ]

b) The permittee shall maintain records or a log for the operation of the engine in emergency and non-emergency service, as recorded through the non-resettable hour meter. The records shall include the number of hours spent in emergency operation, including what classified the operation as an emergency; the number of hours spent in maintenance checks and readiness testing; and the number of hours spent in non-emergency operations. If the RICE is operated as part of a demand response operation, the permittee shall keep records of the notification of the emergency situation and the time the engine was operated as part of the demand response.

[Authority for Term: §63.6655(f) of 40 CFR Part 63, Subpart ZZZZ]

8. Reporting Requirements

a) If you own or operate an emergency stationary RICE with a site rating of more than 100 brake HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 6.a)(2)b. and 6.a)(2)c. above or that operates for the purpose specified in 6.a)(3)a. above, you must submit an annual report according to the requirements in 8.a)(1) through 8.a)(3) below.

(1) The report must contain the following information:

a. Company name and address where the engine is located.

b. Date of the report and beginning and ending dates of the reporting period.

c. Engine site rating and model year.

d. Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.

e. Hours operated for the purposes specified in 6.a)(2)b. and 6.a)(2)c. above, including the date, start time, and end time for engine operation for the purposes specified in 6.a)(2)b. and 6.a)(2)c. above.

f. Number of hours the engine is contractually obligated to be available for the purposes specified in 6.a)(2)b. and 6.a)(2)c. above.

g. Hours spent for operation for the purpose specified in 6.a)(3)a above, including the date, start time, and end time for engine operation for the purposes specified in 6.a)(3)a above. The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

h. If there were no deviations from the fuel requirements in §63.6604 that apply to the engine (if any), a statement that there were no deviations from the fuel requirements during the reporting period.

i. If there were deviations from the fuel requirements in §63.6604 that apply to the engine (if any), information on the number, duration, and cause of deviations, and the corrective action taken.

(2) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

(3) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (*www.epa.gov/cdx*). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in §63.13 of 40 CFR Part 63, Subpart A.

[Authority for Term: §63.6650(h) of 40 CFR Part 63, Subpart ZZZZ]

9. The following emissions unit contained in this permit is subject to New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines, 40 CFR Part 60, Subpart IIII: P019. The complete requirements, including general provisions may be accessed via the internet from the electronic code of federal regulations (e-CFR) website http://www.ecfr.gov/ or by contacting ARAQMD.

10. Applicable Emissions Limitations and/or Control Requirements

a) The exhaust emissions from this engine shall not exceed:

(1) 0.20 gram of particulate matter (PM)/ kilowatt-hour (KW-hr)

(2) 4.0 grams of nitrogen oxides + non-methane hydrocarbons (NO_x + NMHC)/KW-hr

[Authority for Term: §60.4204(d), §60.4205(c) and Table 4 of 40 CFR Part 60, Subpart IIII]

b) The diesel fuel burned in this emissions unit shall meet the following:

(1) The sulfur content shall not exceed 15 ppm; and

(2) The cetane index or aromatic content, as follows:

a. a minimum cetane index of 40; or

b. a maximum aromatic content of 35 volume percent.

[Authority for Term: §60.4207(b) of 40 CFR Part 60, Subpart IIII and §80.510(b) of 40 CFR Part 80, Subpart I]

c) A new area source operating in compliance with 40 CFR Part 60, Subpart IIII is the demonstration of compliance for 40 CFR Part 63, Subpart ZZZZ.

[Authority for Term: §63.6590(c) of 40 CFR Part 63, Subpart ZZZZ]

11. The fire pump stationary CI internal combustion engine (ICE) is subject to and shall be operated in compliance with the requirements of 40 CFR Part 60, Subpart IIII, the standards of performance for stationary CI ICE.

    [Authority for Term: §63.4200(a) of 40 CFR Part 60, Subpart IIII]

12. The stationary CI ICE manufacturers must certify their fire pump stationary CI ICE to the emission standards in Table 4 to this subpart, for engines of the same model year and National Fire Protection Association (NFPA) nameplate power.

    [Authority for Term: §60.4202(d) of 40 CFR Part 60, Subpart IIII]

13. The emergency stationary ICE shall meet the following criteria, as applicable:

    a) The stationary ICE shall be operated to provide electrical power or mechanical work during an emergency situation, to include power for critical networks or equipment at the facility when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or where the stationary ICE is used to pump water for a fire or flood, etc.;

    b) The stationary ICE may be operated under limited circumstances for situations not included in paragraph 13.a) above, as specified in 40 CFR 60.4211(f); and

    c) The stationary ICE may operate as part of a financial arrangement with another entity in situations as allowed in 40 CFR 60.4211(f)(2)(ii) or (iii) and 40 CFR 60.4211(f)(3)(i).

    The emergency stationary ICE must comply with the applicable requirements specified in 40 CFR 60.4211(f) in order to be considered emergency stationary ICE under this subpart.

    [Authority for Term: §60.4219 of 40 CFR Part 60, Subpart IIII]

14. Operational Restrictions

    a) The fire pump stationary CI ICE and any control device shall be operated and maintained according to the manufacturer's emission-related written instructions and the permittee shall only change those emission–related settings that are allowed by the manufacturer. The CI ICE must also be installed and operated to meet the applicable requirements from 40 CFR Part 89, Control of Emissions from New and In-use Non-road CI Engines; and Part 1068, the General Compliance Provisions for Highway, Stationary, and Non-road Programs. The permittee shall operate and maintain the stationary CI ICE to achieve the emissions standards established in 40 CFR 60.4205 over the entire life of the engine(s).

       [Authority for Term: §63.4211(a) and §60.4206 of 40 CFR Part 60, Subpart IIII]

    b) The permittee shall install a non-resettable hour meter prior to startup of the engine.

       [Authority for Term: §60.4209(a) of 40 CFR Part 60, Subpart IIII]

    c) The emergency stationary ICE must be operated according to the following requirements in 14.c)(1) through 14.c)(3) below. In order for the engine to be considered an emergency

stationary ICE under 40 CFR Part 60, Subpart IIII, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 14.c)(1) through 14.c)(3) below, is prohibited. If you do not operate the engine according to the requirements in 14.c)(1) through 14.c)(3) below, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

(1) The emergency stationary ICE may be used at the facility in emergency situations with no restriction on time.

(2) The emergency stationary ICE may be operated for any combination of the following purposes for a maximum of 100 hours per calendar year:

a. The emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. Maintenance and testing of the emergency ICE may exceed 100 hours per calendar year, if the permittee maintains records indicating that federal, state, or local standards require the additional hours or the permittee may petition the Director for approval of additional hours for maintenance checks and readiness testing.

b. The emergency stationary ICE may be operated for emergency demand response for periods during which the Reliability Coordinator under the NERC Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR 60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2, as defined in the NERC Reliability Standard EOP-002-3.

c. The emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

(3) The emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in 14.c)(2) above. Except as provided in 14.c)(3)a.i. below, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

a. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

i. The engine is dispatched by the local balancing authority or local transmission and distribution system operator;

ii. The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

iii. The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

iv. The power is provided only to the facility itself or to support the local transmission and distribution system.

[Authority for Term: §60.4211(f) of 40 CFR Part 60, Subpart IIII]

15. Monitoring and/or Recordkeeping Requirements

a) For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of the diesel oil received, the date received and the oil supplier's (or permittee's) analyses for sulfur content, in parts per million (40 CFR 80.510). The permittee shall perform or require the supplier to perform the analyses for sulfur content in accordance with 40 CFR 80.580, using the appropriate ASTM methods. These records shall be retained for a minimum of 5 years and shall be available for inspection by the Director or his/her representative.

[Authority for Term: §80.590 of 40 CFR Part 80, Subpart I]

b) The permittee shall maintain the manufacturer's certification, to the applicable emission standards Table 4 to this subpart, on site or at a central location for all facility CI ICE; and it shall be made available for review upon request.

[Authority for Term: Table 3 of 40 CFR Part 60, Subpart IIII]

c) The permittee shall maintain records or a log for the operation of the engine in emergency and non-emergency service, as recorded through the non-resettable hour meter. The permittee shall keep the following information for the emergency CI stationary ICE:

(1) the number of hours the engine is in operation, recorded through the non-resettable hour meter;

(2) the reason the engine was in operating during the time;

(3) the number of hours spent in emergency operation;

(4) what classified the operation as an emergency;

(5) the number of hours spent in non-emergency operation; and

(6) the number of hours in maintenance checks and readiness testing.

[Authority for Term: §60.4214(b) of 40 CFR Part 60, Subpart IIII]

d) The permittee shall identify and record the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

[Authority for Term: §63.4211(f)(3)(i)(E) of 40 CFR Part 63, Subpart IIII]

16. Reporting Requirements

a) If you own or operate an emergency stationary CI ICE with a maximum engine power more than 100 HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 14.c)(2)b. and 14.c)(2)c. above or that operates for the purposes specified in 14.c)(3)a. above, you must submit an annual report according to the requirements below:

(1) The report must contain the following information:

a. Company name and address where the engine is located.

b. Date of the report and beginning and ending dates of the reporting period.

c. Engine site rating and model year.

d. Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.

e. Hours operated for the purposes specified in 14.c)(2)b. and 14.c)(2)c. above, including the date, start time, and end time for engine operation for the purposes specified in 14.c)(2)b. and 14.c)(2)c. above.

f. Number of hours the engine is contractually obligated to be available for the purposes specified in 14.c)(2)b. and 14.c)(2)c. above.

g. Hours spent for operation for the purposes specified in 14.c)(3)a. above, including the date, start time, and end time for engine operation for the purposes specified in 14.c)(3)a. above. The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

(2) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

(3) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (*www.epa.gov/cdx*). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in §60.4 of 40 CFR Part 60, Subpart A.

[Authority for Term: §60.4214(d) of 40 CFR Part 60, Subpart IIII]

17. Testing Requirements

a) Compliance with the Emission Limitations and/or Control Requirements specified in 10 above of these terms and conditions shall be determined in accordance with the following methods:

(1) Emission Limitations:

The exhaust emissions from this engine shall not exceed 0.20 gram of PM/KW-hr.

The exhaust emissions from this engine shall not exceed 4.0 grams of NO_x + NMHC/KW-hr

Applicable Compliance Method:

Compliance with the emission limitations above shall be based on the permittee purchasing an engine certified to the emission standards in §60.4205 (c) of 40 CFR Part 60, Subpart IIII for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 17.b) below.

If required, the permittee shall demonstrate compliance with the emission limitations through performance tests conducted in accordance with the provisions in c) below.

[Authority for Term: §60.4202(d), §60.4205(c), §60.4211(c) and Table 4 of 40 CFR Part 60, Subpart IIII]

(2) Emission Limitation:

The diesel fuel burned in this emissions unit shall meet the following:

The sulfur content shall not exceed 15 ppm

Applicable Compliance Method:

Compliance with the allowable sulfur content above shall be demonstrated through the record keeping requirements in 15.a) above.

[Authority for Term: §60.4207(b) of 40 CFR Part 60, Subpart IIII and §80.590 of 40 CFR Part 80, Subpart I]

b) If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance by keeping a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer.

[Authority for Term: §60.4211(g) of 40 CFR Part 60, Subpart IIII]

c) If you conduct performance tests pursuant to 40 CFR Part 60, Subpart IIII, you must do so according to 17.c)(1) through 17.c)(5) below.

(1) The performance test must be conducted according to the in-use testing procedures in 40 CFR Part 1039, Subpart F, for stationary CI ICE with a displacement of less than 10 liters per cylinder, and according to 40 CFR Part 1042, Subpart F, for stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder.

(2) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR Part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d). This requirement starts when NTE requirements take effect for nonroad diesel engines under 40 CFR Part 1039.

(3) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112 or 40 CFR 94.8, as applicable, determined from the following equation:

NTE requirement for each pollutant = (1.25) x (STD)

Where:

STD = The standard specified for that pollutant in 40 CFR 89.112 or 40 CFR 94.8, as applicable.

Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8 may follow the testing procedures specified in §60.4213 of 40 CFR Part 60, Subpart IIII, as appropriate.

(4) Exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) must not exceed the NTE numerical requirements, rounded to the same number of

decimal places as the applicable standard in §60.4204(a), §60.4205(a), or §60.4205(c), determined from the equation in 17.c)(3) above.

Where:

STD = The standard specified for that pollutant in §60.4204(a), §60.4205(a), or §60.4205(c).

Alternatively, stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) may follow the testing procedures specified in §60.4213, as appropriate.

(5) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR Part 1042 must not exceed the NTE standards for the same model year and maximum engine power as required in 40 CFR 1042.101(c).

[Authority for Term: §60.4212 of 40 CFR Part 60, Subpart IIII]

18. The following emissions units contained in this permit are subject to NESHAP for Chemical Manufacturing Area Sources, 40 CFR Part 63, Subpart VVVVVV: P004, P013, P014, P101, P103, P110, P115, P801, T007, T014, T031, T038, T039, T040, T041, T042, T043, T044, T045, T046, T047, T048, T049, T050, T051, T052, T053, T054, T055, T056, T057, T058, T059, T060, T061, T062, T063, T064, T065, T066, T067, T068, T069, T077 and T078. The complete NESHAP requirements, including the General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website http://www.ecfr.gov/ or by contacting ARAQMD.

19. The permittee shall comply with the applicable emission limitations, management practices and other requirements under 40 CFR Part 63, Subpart VVVVVV, including the following sections and tables:

Section/Table:	Requirement:
63.11495(a)	You must comply with paragraphs (a)(1) through (5) of §63.11495 of 40 CFR Part 63, Subpart VVVVVV.
63.11495(a)(1)	Each process vessel must be equipped with a cover or lid that must be closed at all times when it is in organic HAP service or metal HAP service, except for manual operations that require access, such as material addition and removal, inspection, sampling and cleaning. This requirement does not apply to process vessels containing only metal HAP that are in a liquid solution or other form that will not result in particulate emissions of metal HAP (e.g., metal HAP that is in ingot, paste, slurry, or moist pellet form or other form).
63.11495(a)(2)	You must use any of the methods listed in paragraphs (i) through (iv) below to control total organic HAP emissions from transfer of liquids containing Table 1 organic HAP to tank trucks or railcars. You are not required to comply with §63.11495(a)(2) if you have notified the Administrator in your initial notification that a material is reactive or resinous, and you will not be able to comply with any of the methods in paragraphs (i) through (iv) below for the transfer of such material. (i) Use submerged loading or bottom loading.

(ii) Route emissions to a fuel gas system or process in accordance with §63.982(d) of 40 CFR Part 63, Subpart SS.

(iii) Vapor balance back to the storage tank or another storage tank connected by a common header.

(iv) Vent through a closed-vent system to a control device.

63.11495(c) Startup, shutdown, and malfunction (SSM) provisions in subparts that are referenced in paragraphs (a) and (b) of §63.11495 of 40 CFR Part 63, Subpart VVVVVV do not apply.

63.11495(d) At all times, you must operate and maintain any affected chemical manufacturing process unit (CMPU), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator, which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the CMPU.

63.11496(a) You must comply with the requirements in paragraphs (a)(1) through (4) of §63.11496 of 40 CFR Part 63, Subpart VVVVVV for organic HAP emissions from your batch process vents for each CMPU using Table 1 organic HAP. You must also comply with the emission limits and other requirements in Table 2 to this subpart.

Table 2 For batch process vents in a CMPU at an existing source, you must reduce collective uncontrolled total organic HAP emissions from the sum of all batch process vents by ≥85 percent by weight or to ≤20 ppmv by routing emissions from a sufficient number of the batch process vents through a closed vent system to any combination of control devices (except a flare) in accordance with the requirements of §63.982(c) and the requirements referenced therein except compliance may be based on either total organic HAP or total organic carbon (TOC) and as specified in §63.11496(g).

63.11496(b) This facility does not have any applicable continuous processes vents.

63.11496(c) There are no combined streams at this facility.

63.11496(d) This facility does not use a combustion device to comply with the emission limits for organic HAP from a halogenated batch process vent or a halogenated continuous process vent.

63.11496(e) This facility is not complying with the alternative standard for organic HAP.

63.11496(f) This facility does not have metal HAP process vents.

63.11496(g) If you are complying with the emission limits and other requirements for batch process vents in Table 2 to this subpart, the provisions in paragraphs (g)(1) through (8) of §63.11496 apply in addition to the provisions in 40 CFR Part 63, Subpart SS.

63.11496(h) The facility does not have any surge control vessels and bottom receivers that

meetsthe applicability criteria for storage tanks specified in Table 5 to this subpart.

63.11496(i) References to startup, shutdown and malfunction (SSM) provisions in subparts that are referenced in paragraphs (a) through (h) of §63.11496 or Tables 2 through 5 to 40 CFR Part 63, Subpart VVVVVV do not apply.

63.11497 This facility does not have any storage tanks that meet the applicability criteria in Table 5 to this subpart.

63.11498(a) You must comply with the requirements in paragraph (1) and (2) below and in Table 6, Item 1 to this subpart for all wastewater streams from a CMPU subject to this subpart.

(1) Except as specified in paragraph (2) below, you must determine the total concentration of partially soluble HAP in each wastewater stream using process knowledge, engineering assessment, or test data. Also, you must reevaluate the concentration of partially soluble HAP if you make any process or operational change that affects the concentration of partially soluble HAP in a wastewater stream.

(2) You are not required to determine the partially soluble concentration in wastewater that is hard piped to a combustion unit or hazardous waste treatment unit, as specified in Table 6, Item 2.b to this subpart.

Table 6 For each wastewater stream, you must discharge to onsite or offsite wastewater treatment or hazardous waste treatment.

63.11499 The facility's heat exchange system cooling water flow rate is less than 8,000 gallons per minute, therefore, it is not subject the requirements specified in Table 8 to this subpart.

20. The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 63, Subpart VVVVVV, including the following sections and tables:

Section/Table:	Requirement:
63.11495(a)(3)	You must conduct inspections of process vessels and equipment for each CMPU in organic HAP service or metal HAP service, as specified in paragraphs (i) through (v) below, to demonstrate compliance with §63.11495(a)(1) of 40 CFR Part 63, Subpart VVVVVV and to determine that the process vessels and equipment are sound and free of leaks. Alternatively, except when the subject CMPU contains metal HAP as particulate, inspections may be conducted while the subject process vessels and equipment are in VOC service, provided that leaks can be detected when in VOC service. (i) Inspections must be conducted at least quarterly. (ii) For these inspections, detection methods incorporating sight, sound, or smell are acceptable. Indications of a leak identified using such methods constitute a leak unless you demonstrate that the indications of a leak are due to a condition other than loss of HAP. If indications of a leak are determined not to be HAP in one quarterly monitoring period, you must still perform the inspection and demonstration in the next quarterly monitoring period.

(iii) As an alternative to conducting inspections, as specified in paragraph (ii) above, you may use Method 21 of 40 CFR part 60, Appendix A, with a leak definition of 500 ppm_v to detect leaks. You may also use Method 21 with a leak definition of 500 ppm_v to determine if indications of a leak identified during an inspection conducted in accordance with paragraph (ii) above are due to a condition other than loss of HAP. The procedures in this paragraph may not be used as an alternative to the inspection required by paragraph (ii) above for process vessels that contain metal HAP as particulate.

(iv) Inspections must be conducted while the subject CMPU is operating.

(v) No inspection is required in a calendar quarter during which the subject CMPU does not operate for the entire calendar quarter and is not in organic HAP service or metal HAP service. If the CMPU operates at all during a calendar quarter, an inspection is required.

63.11495(a)(4) You must repair any leak within 15 calendar days after detection of the leak, or document the reason for any delay of repair. For the purposes of this paragraph, a leak will be considered "repaired" if a condition specified in paragraph (i), (ii), or (iii) below is met.

(i) The visual, audible, olfactory, or other indications of a leak to the atmosphere have been eliminated, or

(ii) No bubbles are observed at potential leak sites during a leak check using soap solution, or

(iii) The system will hold a test pressure.

63.11495(a)(5) You must keep records of the dates and results of each inspection event, the dates of equipment repairs, and, if applicable, the reasons for any delay in repair.

63.11495(b) For each heat exchange system subject to this subpart with a cooling water flow rate less than 8,000 gallons per minute (gal/min) and not meeting one or more of the conditions in §63.104(a), you must comply with paragraphs (1) through (3) below, or as an alternative, you may comply with any one of the requirements in Item 1.a or 1.b of Table 8 to this subpart.

(1) You must develop and operate in accordance with a heat exchange system inspection plan. The plan must describe the inspections to be performed that will provide evidence of hydrocarbons in the cooling water. Among other things, inspections may include checks for visible floating hydrocarbon on the water, hydrocarbon odor, discolored water, and/or chemical addition rates. You must conduct inspections at least once per quarter, even if the previous inspection determined that the indications of a leak did not constitute a leak as defined by §63.104(b)(6).

(2) You must perform repairs to eliminate the leak and any indications of a leak or demonstrate that the HAP concentration in the cooling water does not constitute a leak, as defined by §63.104(b)(6), within 45 calendar days after indications of the leak are identified, or you must document the reason for any delay of repair in your next semiannual compliance report.

(3) You must keep records of the dates and results of each inspection, documentation of any demonstrations that indications of a leak do not constitute a

	leak, the dates of leak repairs, and, if applicable, the reasons for any delay in repair.
63.11496(g)	If you are complying with the emission limits and other requirements for batch process vents in Table 2 to this subpart, the provisions in paragraphs (g)(1) through (8) of §63.11496 apply in addition to the provisions in 40 CFR Part 63, Subpart SS.
Table 6	For each wastewater stream, you must maintain records identifying each wastewater stream and documenting the type of treatment that it receives. Multiple wastewater streams with similar characteristics and from the same type of activity in a CMPU may be grouped together for recordkeeping purposes.
63.11501(c)	You must maintain files of all information required by this subpart for at least 5 years following the date of each occurrence according to the requirements in §63.10(b)(1). If you are subject, you must comply with the recordkeeping and reporting requirements of §63.10(b)(2)(iii) and (vi) through (xiv), and the applicable requirements specified in paragraphs (c)(1) through (8) of this section.

21. The permittee shall comply with the applicable notification and reporting requirements required under 40 CFR Part 63, Subpart VVVVVV, including the following sections and tables:

Section/Table:	Requirement:
63.11501(b)	Your Notification of compliance status (NOCS) required by §63.9(h) must include the additional information as applicable in §63.11501(b)(1) through (5) of 40 CFR Part 63, Subpart VVVVVV.
63.11501(d)	You must submit semiannual compliance reports that contain the information specified in paragraphs (d)(1) through (7) of §63.11501(d), as applicable. Reports are required only for semiannual periods during which you experienced any of the events described in paragraphs (d)(1) through (8) of §63.11501(d).
63.11501(e)(2)	If you seek to assert an affirmative defense, you must submit a written report to the Administrator, with all necessary supporting documentation, that you have met the requirements set forth in paragraph (e)(1) of §63.11501. This affirmative defense report must be included in the first periodic compliance report, deviation report, or excess emission report otherwise required after the initial occurrence of the violation of the relevant standard (which may be the end of any applicable averaging period). If such compliance report, deviation report, or excess emission report is due less than 45 days after the initial occurrence of the violation, the affirmative defense report may be included in the second compliance report, deviation report, or excess emission report due after the initial occurrence of the violation of the relevant standard.

22. The permittee shall comply with the applicable testing requirements required under 40 CFR Part 63, Subpart VVVVVV, including the following sections:

Section/Table:	Requirement:
63.11496(g)	If you are complying with the emission limits and other requirements for batch process vents in Table 2 to this subpart, the provisions in paragraphs (g)(1) through (8) of §63.11496 apply in addition to the provisions in 40 CFR Part 63,

Subpart SS.

23. The following is other requirements and information that is applicable in 40 CFR Part 63, Subpart VVVVVV, including the following sections:

Section/Table:	Requirement:
63.11501(a)	You must meet the requirements of the General Provisions in 40 CFR Part 63, Subpart A, as shown in Table 9 to this subpart.
Table 9	As required in §63.11501(a), you must comply with the requirements of the NESHAP General Provisions (40 CFR part 63, subpart A) as shown in Table 9 to this subpart.
63.11501(e)	In response to an action to enforce the standards set forth in §§63.11495 through 63.11499, you may assert an affirmative defense to a claim for civil penalties for violations of such standards that are caused by malfunction, as defined at 40 CFR 63.2. Appropriate penalties may be assessed if you fail to meet your burden of proving all of the requirements in the affirmative defense. The affirmative defense shall not be available for claims for injunctive relief.
63.11502	What definitions that apply to this subpart?
63.11503	Who implements and enforces this subpart?

24. 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:

EU ID	Operations, Property and/or Equipment Description
B014	North American Atlas Generator, Serial No. BC2060-3, Model No. AB6121-8.4-C71, 8.4 MMBtuh - Boiler 8
B015	North American Atlas Generator, Serial No. BC2060-5, Model No. AB6121-8.4-C71, 8.4 MMBtuh - Boiler 9
B016	North American Atlas Generator, Serial No. BC2060-1, Model No. AB6121-8.4-C71, 8.4 MMBtuh - Boiler 10
B017	North American Atlas Generator, Serial No. BC2060-2, Model No. AB6121-8.4-C71, 8.4 MMBtuh - Boiler 11
B018	North American Atlas Generator, Serial No. BC2060-4, Model No. AB6121-8.4-C71, 8.4 MMBtuh - Boiler 12
B019	Boiler #1: Cleaver-Brooks model no. CB-700X-303-150ST, with maximum heat input rating 12.25 MMBtu/hour
B020	Boiler #2: Cleaver-Brooks model no. CB-700X-303-150ST, with maximum heat input rating 12.25 MMBtu/hour
B021	Boiler #4: Cleaver-Brooks model no. CB-700X-303-150ST, with maximum heat input rating 12.25 MMBtu/hour
B022	Onan electrical generator model no. 175.0DFE-15R/30223M, with manufacturer's engine output rating of 175 kilowatts - Emergency Generator
B024	Cummins Diesel firefighting water pump model no. NT-855-F2, with manufacturer's engine output rating of 220 horsepower - Big Fire Diesel

EU ID	Operations, Property and/or Equipment Description
N001	Pollution Control Products Co. Model SCTR-6 Pyrolysis Furnace - B39-1-Pyro (Permit to Install (PTI) 16-1161)
P019	Clarke Fire Pump Engine, Model JW6H-UFADJ0, with John Deere 6090 Series Power Tech E Diesel Engine, 350 BHP (261 kW) at 1760 RPM
P021	Area 43 Cooling Tower
P022	Butadiene Distillation Column Cooling Tower
P056	Monomer Emulsion Tank No. T-11-23-01 - MET #2
P057	Monomer Emulsion Tank No. T-11-13-01 - MET #1
T014	52,848 gallon variable vapor space storage tank - Styrene Bulk Storage Tank T-53-20 (PTI 16-1161)
T020	Acrylonitrile Pressure Storage Tank No. T-53-31 (PTI 16-1839)
T031	Methyl Methacrylate Storage Tank No. T-53-188-01 - MMA Tank #1
T070	Liquid Resin Letdown Tank No. T-11-2 - Letdown Tank #1
T071	Liquid Resin Letdown Tank No. T-11-34 - Letdown Tank #2
T074	HPP Finishing Tank No. T-13-71 - Finishing Tank #1
T075	HPP Finishing Tank No. T-13-72 - Finishing Tank #2
T079	Liquid Latex Filter Feed Tank No. T-13-224-01 - Filter Feed Tank #1
T080	Liquid Latex Filter Feed Tank No. T-13-224-02 - Filter Feed Tank #2

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

C. Emissions Unit Terms and Conditions

1. Emissions Unit Group -Group 1: P004, P013, P014, P101, P103, P106, P110, P115,

EU ID	Operations, Property and/or Equipment Description
P004	Latex and Resin Polymerization & Degassing Process
P013	Pretreatment of process wastewater prior to discharge to the publicly owned treatment works (POTW) - Wastewater Effluent System
P014	Butadiene distillation column, overhead condenser, reflux drum, reboiler, pumps; vented to an existing Process Combustion Corp Thermal Incinerator
P101	Specialty Chemical Monomer Creation and Polymerization Process - PolyFox Process
P103	Pilot Plant latex strippers
P106	Pilot Plant in-mold coatings production
P110	Manufacture of polymers for R&D purposes, and from scale-up and semi-works operations
P115	Manufacture of polymers for R&D purposes, and from scale-up and semi-works operations

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) d)(10), d)(11), d)(12), d)(13) and e)(3).

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)	Hourly mass emissions* from the thermal oxidizer shall not exceed the following limits: 5.31 lbs/hr organic compounds (OC), measured as methane; 1.41 lbs/hr of 1,3-butadiene; 1.81 lbs/hr of styrene; and 2.50 lbs/hr of nitrogen oxides (NO_x). *The hourly allowable mass emission limitations are established for emissions units P004, P013, P014, P106, P110 and P115, combined. For emissions units P004, P013, P014, P106, P110 and P115,the thermal oxidizer shall achieve at least 98% overall control efficiency, by weight, for OC.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
b.	OAC rule 3745-21-07(M)(3)(iii)	Emissions units P004, P013, P014, P106, P110 and P105 are not subject to OAC rule 3745-21-07(M)(3)(a) and (M)(3)(b) because these emissions units are subject to and complying with a best available technology requirement, pursuant to rule 3745-31-05 of the Administrative Code, that specifies an overall control efficiency for organic compound that is greater than eighty-five per cent, by weight.
c.	OAC rule 3745-21-07(M)(2)	For emissions units P101 and P103, the emissions units shall be equipped with a control system (i.e., capture and control equipment) that reduces the organic compound emissions from the article, machine, equipment or other contrivance by an overall control efficiency of at least eighty-five per cent, by weight. If the reductions are achieved by incineration, ninety per cent or more of the carbon in the organic material being incinerated shall be oxidized to carbon dioxide.
d.	OAC rule 3745-31-05(D) (Synthetic Minor to avoid MACT applicability under 40 CFR Part 63, Subpart U, 40 CFR Part 63, Subpart JJJ and 40 CFR Part 63, Subpart FFFF and OAC rule 3745-21-14 applicability)	Emissions of styrene from the facility shall not exceed 5.0 tons per year (tpy), based upon a rolling, 12-month summation of the monthly emissions. The OC emissions from emissions units P004, P013, P014, P106, P110 and P115 and the non-halogenated OC emissions from emissions units P101 and P103, shall be vented to the thermal oxidizer. However, if the thermal oxidizer is not operational due to a malfunction or maintenance, OC emissions from only the styrene-acrylic polymer expansion process of emissions unit P004 may be vented to the atmosphere through the second-stage vacuum system for a maximum of 100 hours per year as long as the requirements of OAC rule 3745-15-06 are met. The OC emissions from the thermal oxidizer and the second-stage vacuum system, combined, shall not exceed 2.36

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		tpy, based upon a rolling, 12-month summation of the monthly emissions. Hazardous air pollutant (HAP) emissions from this facility shall not exceed 9.99 tpy for any individual HAP and 24.99 tpy for combined HAPs, based upon rolling, 12-month summation of the monthly emissions. The thermal oxidizer shall achieve at least 98% overall control efficiency, by weight, for OC.
e.	40 CFR Part 63, Subpart VVVVVV	See 18 through 23 of Section B. Facility-Wide Terms and Conditions.
f.	40 CFR Part 63, Subpart A	Table 9 to Subpart VVVVVV of Part 63 – Applicability of General Provisions to Subpart VVVVVV shows which parts of the General Provisions in §§63.1 - 63.15 of 40 CFR Part 63, Subpart A apply.

(2) Additional Terms and Conditions

a. The wastewater "bottoms" stream from the continuous steam stripping equipment may be piped to the existing wastewater effluent basin or directly to the city-owned sewer system below-grade. The basin shall be equipped with a cover, and the emissions from the wastewater beneath the cover shall be vented to the ambient air from a stack at a height of 70 feet above grade.

c) Operational Restrictions

(1) The thermal oxidizer shall be operated whenever OC emissions may be vented to it.

(2) Continuous steam stripping equipment shall be employed and maintained to remove OC from the wastewater exiting the condensate pretreatment tanks. OC emissions from the continuous steam stripping equipment shall be vented to the thermal oxidizer.

d) Monitoring and/or Recordkeeping Requirements

(1) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable average combustion chamber temperature within the thermal oxidizer, during any 3-hour period of time when the emissions unit(s) controlled by the thermal oxidizer is/are in operation, shall not be less than 1451 degrees Fahrenheit or shall not be more than 50 degrees Fahrenheit below the average temperature measured during the most recent performance test that demonstrated the emissions unit(s) was/were in compliance.

(2) The permittee shall properly install, operate, and maintain a continuous temperature monitor and recorder that measures and records the combustion temperature within the thermal oxidizer when the emissions unit(s) is/are in operation. Units shall be in degrees Fahrenheit. The accuracy for each thermocouple, monitor, and recorder shall be guaranteed by the manufacturer to be within ± 1 percent of the temperature being measured or ± 5 degrees Fahrenheit, whichever is greater. The temperature monitor and recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and the operating manuals. The permittee shall collect and record the following information each day the emissions unit(s) is/are in operation:

a. all 3-hour blocks of time, when the emissions unit(s) controlled by the thermal oxidizer was/were in operation, during which the average combustion chamber temperature within the thermal oxidizer was less than 1451 degrees Fahrenheit or was more than 50 degrees Fahrenheit below the average temperature measured during the most recent performance test that demonstrated the emissions unit(s) was/were in compliance; and

b. a log (date and total time) of the downtime or bypass of the capture (collection) system and thermal oxidizer, and/or downtime of the monitoring equipment, when the associated emissions unit(s) was/were in operation.

(3) Whenever the monitored average combustion chamber temperature within the thermal oxidizer deviates from the range or limit established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

a. the date and time the deviation began;

b. the magnitude of the deviation at that time;

c. the date the investigation was conducted;

d. the name(s) of the personnel who conducted the investigation; and

e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range/limit specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

f. a description of the corrective action;

g. the date corrective action was completed;

h. the date and time the deviation ended;

i. the total period of time (in minutes) during which there was a deviation;

j. the temperature readings immediately after the corrective action was implemented; and

k. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The temperature range/limit is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted temperature range/limit based upon information obtained during future performance tests that demonstrate compliance with the allowable emission rate(s) for the controlled pollutant(s). In addition, approved revisions to the temperature range/limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

(4) For emissions units P004, P014, P106, P110 and P115, the permittee shall maintain a leak detection and repair program for pumps, valves and flanges in styrene, butadiene and acrylonitrile service as indicated below:

a. Except as provided in d)(4)c. below, pumps, valves and flanges in styrene, butadiene and acrylonitrile service shall be inspected for signs of leakage monthly using visual, audible and/or olfactory methods.

b. Except as provided in d)(4)c. below, pumps and valves in styrene, butadiene and acrylonitrile service shall be monitored for leaks once each six calendar months in accordance with the method specified in OAC rule 3745-21-10(F).

c. Excluded from the above monitoring requirements are any pumps in styrene, butadiene and acrylonitrile service that are equipped with double mechanical seals. Pumps with double mechanical seals will be inspected for signs of leakage monthly as described in d)(4)a. above. Also, valves that are designated as difficult to inspect or monitor (valves which cannot be monitored without elevating the monitoring personnel more than six feet above a support surface) shall be inspected and monitored once each calendar year.

d. Flanges in styrene, butadiene and acrylonitrile service shall be monitored for leaks once each 12 calendar months in accordance with the method specified in OAC rule 3745-21-10(F).

e. A leak is defined as visible frost (from butadiene pumps, valves or flanges) or drips (from styrene or acrylonitrile pumps, valves or flanges), a strong, distinctive odor (from the pump seal, valve or flange), or an organic vapor analyzer reading in excess of 10,000 parts per million by volume ("ppm_v") for pumps, 5,000 ppm_v for valves and 1,000 ppm_v for flanges.

f. If a leak is discovered, it shall be repaired within 30 calendar days. However, a first attempt at repair shall be made within five calendar days.

g. Any pump or valve from which a leak has been detected shall be monitored within five working days of being repaired, using an organic vapor analyzer. A reading below 2,000 ppm_v for pumps, 1,000 ppm_v for valves and 500 ppm_v for flanges indicates a successful repair.

(5) To demonstrate the effectiveness of the leak detection and repair program, the permittee shall maintain the following records:

a. A list of identification numbers for all pumps, valves, and flanges in styrene, butadiene, and acrylonitrile service shall be recorded in a log that is kept in a readily accessible location.

b. When a leak is detected as described in d)(4)e. above, the following information shall be recorded in the leak repair log:

i. The identification number of the leaking equipment.

ii. The basis for detection of the leak, for example, monitoring, visual inspection or sensor.

iii. The date on which the leak was detected and the date of each attempt to repair the leaking equipment.

iv. The methods of repair applied in each attempt to repair the leaking equipment.

v. One of the following entries within five working days after each attempt to repair the leaking equipment:

(a) "not monitored," denoting the leaking equipment was presumed to still be leaking and it was not monitored; or

(b) if the leaking equipment was monitored with a leak detection instrument, the maximum concentration that was measured, in ppm_v.

vi. If the leak is not repaired within 30 calendar days after the date on which it was detected, record the following:

(a) "repair delayed" and the reason for the delay;

(b) if the repair is being delayed until the next process shutdown due to technical infeasibility of repair, the signature of the owner or operator whose decision it was that repair is technically infeasible without a process shutdown;

(c) the expected date of successful repair of the leak; and

(d) the dates of process unit shutdowns that occur while the leaking equipment is unrepaired.

vii. The date on which the leak was successfully repaired.

(6) The leak repair log shall be retained by the owner or operator of the process unit in a readily accessible location for a minimum of two years after the date on which the record was made.

(7) The permittee shall maintain monthly records of the total facility emissions for each individual HAP and combined HAPs. The permittee also shall maintain monthly records of the rolling, 12-month summation of the total facility emissions for each individual HAP and combined HAPs.

(8) In order to determine compliance with the rolling, 12-month OC emission limitation for the thermal oxidizer and the second-stage vacuum system, combined, the permittee shall maintain monthly records of the following information for emissions units P004, P013, P014, P101, P103, P106, P110 and P115:

a. For emissions units P004, P110 and P115, the permittee shall maintain the following monthly records:

i. the amount of OC charged, in ton(s);

ii. the amount of OC converted to product (i.e., product yield), in ton(s);

iii. the amount of unreacted OC remaining in the finished product after degassing, in ton(s);

iv. the amount of unreacted OC routed to the vacuum condensers during degassing, in ton(s);

v. the amount of OC routed from the vacuum condensers to the thermal oxidizer via the primary vacuum system, in ton(s);

vi. the amount of OC routed from the vacuum condensers to the steam stripping column in the liquid condensate, in ton(s);

vii. the amount of OC routed from the steam stripping column to the thermal oxidizer, (i.e., d)(8)a.vi. x column efficiency), in ton(s);

viii. the amount of OC routed from the steam stripping column to the wastewater system in the bottoms, (i.e., d)(8)a.vi. x (1 - column efficiency)), in ton(s);

ix. the amount of OC emitted from the thermal oxidizer, (i.e., d)(8)a.v. + d)(8)a.vii.) x (1- control efficiency), in ton(s);

x. the amount of OC from the styrene-acrylic polymer expansion process that is vented to the atmosphere through the second-stage vacuum system, in ton(s); and

xi. the amount of OC emitted from the thermal oxidizer and second-stage vacuum, (i.e., d)(8)a. ix. + d)(8)d.x.), in ton(s).

b. For emissions unit P013, the permittee shall maintain the following monthly records:

   i. the amount of OC routed from the vacuum condensers to the steam stripping column in the liquid condensate (same as d)(8)a.vi. above), in ton(s);

   ii. the amount of OC routed from the steam stripping column to the thermal oxidizer (same as d)(8)a.vii.. above), in ton(s);

   iii. the amount of OC routed from the steam stripping column to the wastewater system in the bottoms (same as d)(8)a.viii. above), in ton(s);

   iv. the amount of OC emitted from the thermal oxidizer (same as d)(8)a.ix. above), in ton(s); and

   v. the amount of OC emitted from the wastewater system, as determined by results of periodic wastewater sampling and EPA-approved wastewater emissions modeling software, in ton(s).

c. For emissions unit P014, the permittee shall maintain the following monthly records:

   i. the amount of OC charged to the distillation column, in ton(s);

   ii. the amount of OC recovered and recycled to the storage tanks, in ton(s);

   iii. the amount of OC routed to the heavies (waste) tank, in ton(s);

   iv. the amount of OC routed to the thermal oxidizer from the heavies tank, in ton(s); and

   v. the amount of OC emitted from the thermal oxidizer, in ton(s).

d. For emissions unit P106, the permittee shall maintain the following monthly records:

   i. the amount of organic compounds (OC) charged, in ton(s);

   ii. the amount of OC in the finished product, in ton(s);

   iii. the amount of OC routed to the thermal oxidizer via the Pilot Plant's vacuum system, in ton(s); and

   iv. the amount of OC emitted from the thermal oxidizer, in ton(s).

e. For emissions units P101 and P103, the permittee shall maintain the following monthly records:

   i. the amount of non-halogenated OC charged, in ton(s);

ii. the amount of non-halogenated OC removed from the process as waste, in ton(s);

iii. the amount of non-halogenated OC routed to the thermal oxidizer, in ton(s); and

iv. the amount of non-halogenated OC emitted from the thermal oxidizer, in ton(s).

f. For P004, P013, P014, P101, P103, P106, P110 and P115, combined, the permittee shall maintain the following monthly records:

i. The total amount of OC emitted from the thermal oxidizer and second-stage vacuum system, (i.e., d)(8)a.xi. + d)(8)c.v. + d)(8)d.iv. + d)(8)e.iv.), in ton(s) and

ii. the rolling, 12-month summation of the monthly emissions of OC for the thermal oxidizer and the second-stage vacuum system for each calendar month.

(9) For emissions unit P004, the permittee shall maintain monthly records of the amount of time the styrene-acrylic polymer expansion process was vented to atmosphere through the second-stage vacuum system.

(10) The federally enforceable permit-to-install and operate (FEPTIO) application for emissions units, P004, P013, P014, P106, P110 and P115, was evaluated based on the actual materials and the design parameters of the emissions units' exhaust system, as specified by the permittee. The "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to these emissions units for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted at over one ton per year using an air dispersion model such as SCREEN3, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:

a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic compound(s) emitted from the emissions units, (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):

i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or

ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists' (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.

b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).

c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "X" hours per day and "Y" days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the MAGLC:

TLV/10 x 8/X x 5/Y = 4 TLV/XY = MAGLC

d. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or "worst case" toxic contaminant(s):

Toxic Contaminant: acrylonitrile (CAS 107-13-1)

TLV (mg/m3): 4.34

Maximum Hourly Emission Rate (lbs/hr): 5.31

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 75

MAGLC (ug/m3): 103

The permittee, has demonstrated that emissions of acrylonitrile (1,3-butadiene, hexane and styrene), from emissions units P004, P013, P014, P106, P110, and P115, are calculated to be less than eighty per cent of the MAGLC; any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F).

(11) Prior to making any physical changes to or changes in the method of operation of the emissions units, that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:

a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower TLV than the lowest TLV previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and

c. physical changes to the emissions units or their exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Toxic Air Contaminant Statute" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), has been documented. If the change(s) meet(s) the definition of a "modification", the permittee shall apply for and obtain a final Permit to Install (PTI)prior to the change. The Director may consider any significant departure from the operations of the emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

(12) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F):

a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);

b. the MAGLC for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F);

c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and

d. the documentation of the initial evaluation of compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.

(13) The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration.

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify:

a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:

i. each 3-hour period of time (start time and date, and end time and date) when the average combustion chamber temperature within the thermal oxidizer was less than 1451 degrees Fahrenheit or was more than 50 degrees Fahrenheit below the average temperature measured during the most recent performance test that demonstrated the emissions unit(s) was/were in compliance;

ii. any period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the thermal oxidizer;

iii. all exceedances of the rolling, 12-month emission limitation for OC;

iv. all exceedances of the rolling, 12-month emission limitation for any individual HAP;

v. all exceedances of the rolling, 12-month emission limitation for styrene; and

vi. all exceedances of the rolling, 12-month emission limitation for combined HAPs.

b. the probable cause of each deviation (excursion);

c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and

d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

(2) For emissions units P004, P014, P106, P110 and P115, semiannual reports shall be submitted to the Director (the appropriate District Office or local air agency) by the first day of February and August and shall include the following information for each month during the preceding semiannual period:

a. the number of pumps in styrene, butadiene or acrylonitrile service for which leaks were detected as described in d)(4)e. above;

b. the number of valves in styrene, butadiene or acrylonitrile service for which leaks were detected as described in d)(4)e. above;

c. the number of flanges in styrene, butadiene or acrylonitrile service for which leaks were detected as described in d)(4)e. above;

d. the number of pumps, valves and/or flanges in styrene, butadiene or acrylonitrile service for which leaks were not repaired within thirty calendar days after detection of the leak; and

e. the facts that explain each delay of repair.

(3) For emissions units P004, P013, P014, P106, P110 and P115, the permittee shall submit annual reports that include any changes to any parameter or value used in the dispersion model used to demonstrate compliance with the "Toxic Air Contaminate Statute", ORC 3704.03(F), through the predicted 1 hour maximum concentration. The report should include:

a. the original model input;

b. the updated model input;

c. the reason for the change(s) to the input parameter(s); and

d. a summary of the results of the updated modeling, including the input changes; and

e. a statement that the model results indicate that the 1-hour maximum ground-level concentration is less than 80% of the MAGLC.

If no changes to the emissions, emissions unit(s), or the exhaust stack have been made during the reporting period, then the report shall include a statement to that effect.

(4) For emissions units P101 and P103, the owner or operator of any article, machine, equipment, or other contrivance meeting the specifications of paragraph (M)(3)(a) of OAC rule 3745-21-07, and not specified in paragraph (M)(1) of OAC rule 3745-21-07, shall notify Ohio environmental protection agency of the need to be specified in paragraph (M)(1) of OAC rule 3745-21-07. Such notification shall be submitted by May 18, 2008.

(5) 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.

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:

5.31 lbs/hr of OC, measured as methane

Applicable Compliance Method:

If required in writing by the Director (the appropriate District Office or local air agency), the permittee shall demonstrate compliance with the hourly allowable emission limitation above based on the results of emission testing conducted in accordance with Methods 1-4 and 18, 25 or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

b. Emission Limitations:

1.41 lbs/hr of 1,3-butadiene

1.81 lbs/hr of styrene

Applicable Compliance Method:

Compliance with hourly allowable emission limitations above shall be demonstrated multiplying the maximum hourly uncontrolled emission rate, in pounds per hour, by (1-X*).

*"X" is the control efficiency for the control equipment as determined during the most recent emission test that demonstrated that the emissions unit(s) was/were in compliance.

Note: The capture efficiency is considered 100% because the emissions units are closed systems (emissions are hard piped to the control equipment).

If required in writing by the Director (the appropriate District Office or local air agency), the permittee shall demonstrate compliance with the hourly allowable emission limitations above based on the results of emission testing conducted in accordance with Methods 1-4 and 18 of 40 CFR Part 60, Appendix A.

c. Emission Limitation:

2.50 lbs/hr of NO_x

Applicable Compliance Method:

If required in writing by the Director (the appropriate District Office or local air agency), the permittee shall demonstrate compliance with the hourly allowable NO_x emission limitation above based on the results of emission testing

conducted in accordance with Methods 1-4 and 7, 7A or 7E, as appropriate, of 40 CFR Part 60, Appendix A.

d. Emission Limitation:

The thermal oxidizer shall achieve at least 98% overall control efficiency, by weight, for OC.

For emissions units P101 and P103, the emissions units shall be equipped with a control system (i.e., capture and control equipment) that reduces the organic compound emissions from the article, machine, equipment or other contrivance by an overall control efficiency of at least eighty-five per cent, by weight. If the reductions are achieved by incineration, ninety per cent or more of the carbon in the organic material being incinerated shall be oxidized to carbon dioxide.

Applicable Compliance Method:

Compliance with the overall control efficiency emission limitations above shall be demonstrated based on the results of emission testing conducted in accordance with the procedures and test methods as outlined in f)(2) below.

e. Emission Limitations:

The OC emissions from the thermal oxidizer and the second-stage vacuum system, combined, shall not exceed 2.36 tpy, based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be demonstrated through the record keeping requirements established in d)(8) above.

f. Emission Limitations:

Emissions of styrene from the facility shall not exceed 5.0 tpy, based upon a rolling, 12-month summation of the monthly emissions.

HAP emissions from this facility shall not exceed 9.99 tpy for any individual HAP and 24.99 tpy for combined HAPs, based upon rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the annual allowable emission limitations above shall be demonstrated through the record keeping requirements established in d)(7) above.

(2) The permittee shall conduct, or have conducted, emission testing for the emissions units listed above in accordance with the following requirements:

a. The emission testing shall be conducted within 6 months prior to the permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the overall control efficiency* for OC.

c. The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in 3745-21-10 or an alternative test protocol approved by the Ohio EPA. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.

d. The test(s) shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limits and/or control requirements, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.

e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

f. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

   A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

*No capture testing is required because the emissions units listed above are a closed system (emissions are hard piped to the control equipment) with 100% capture efficiency.

g) Miscellaneous Requirements

(1) None.

2. Emissions Unit Group -Group 2: P017, P018,

EU ID	Operations, Property and/or Equipment Description
P017	NLB Corp. 200-HP (230 BHP) Hi-Pressure Water Jetting Diesel, Model No. 7200D-1-1/2 - Haywagon
P018	Jetstream 110-HP (110 BHP) Hi-Pressure Water Jetting Diesel, Model No. 3015 - PP Diesel

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) b)(1)g., b)(2)h., c)(5) and d)(1).

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.	40 CFR Part 63 Subpart ZZZZ (40 CFR 63.6580 to 63.6675) In accordance with 40 CFR 63.6585, the emissions units listed above are stationary internal combustion engines subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines.	The existing stationary compression ignition (CI) reciprocating internal combustion engine (RICE), located at an area source for hazardous air pollutants (HAPs), shall meet the requirements of 40 CFR Part 63, Subpart ZZZZ.
b.	40 CFR 63.6603(a) Table 2d to Subpart ZZZZ of Part 63 #1	You must comply with the requirements in Table 2d to this subpart that apply to you.
c.	OAC rule 3745-31-05(A)(3)	For emissions unit P017, the exhaust emissions from this engine shall not exceed: 7.72 pounds of nitrogen oxides (NO_x) per hour 1.66 pounds of carbon monoxide (CO) per hour and 3.57 tons of CO per year

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		0.51 pound of sulfur oxides (SO_x) per hour and 1.1 tons of SO_x per year 0.54 pound of particulate emissions (PE) per hour and 1.17 tons of PE per year 0.63 pound of organic compounds (OC) per hour and 1.35 tons of OC per year For emissions unit P018, the exhaust emissions from this engine shall not exceed: 3.7 pounds of NO_x per hour 0.8 pound of CO per hour and 1.72 tons of CO per year 0.24 pound of SO_x per hour and 0.52 ton of SO_x per year 0.26 pound of PE per hour and 0.56 ton of PE per year 0.3 pound of OC per hour and 0.65 ton of OC per year
d.	OAC rule 3745-17-11(B)(5)(a)	For emissions units P017 and P018: PE shall not exceed 0.310 pound per million British thermal unit (lb/MM Btu) of actual heat input.
e.	OAC rule 3745-17-07(A)(1)	Visible PE from the exhaust stack serving the emissions units listed above shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
f.	OAC rule 3745-18-06(B)	Fuel burning equipment, stationary gas turbines, jet engine test stands and stationary internal combustion engines which have rated heat input capacities equal to, or less than, ten MM Btu per hour total rated capacity are exempt from paragraphs (D), (F) and (G) of OAC rule 3745-18-06 and from rules 3745-18-07 to 3745-18-94 of the Administrative Code.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
g.	OAC rule 3745-31-05(E) Restriction to Avoid State Modeling for Nitrogen Dioxide	For emissions unit P017, the emissions of NO_x from this emissions unit shall not exceed 16.6 tons per year. For emissions unit P018, the emissions of NO_x from this emissions unit shall not exceed 8.0 tons per year. See c)(5) below.
h.	OAC rule 3745-114-01	See g)(1) below.

(2) Additional Terms and Conditions

a. The stationary CI RICE is subject to and shall be operated in compliance with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ, the NESHAP for Stationary Reciprocating Internal Combustion Engines at all times. Compliance with the NESHAP includes the requirements from #1 in Table 2d to the subpart.

[Authority for Term: §63.6605(a) of 40 CFR Part 63, Subpart ZZZZ].

c) Operational Restrictions

(1) You must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[Authority of Term: §63.6625(e) of 40 CFR Part 63, Subpart ZZZZ]

(2) The stationary CI RICE shall be operated and maintained at all times in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by 40 CFR Part 63, Subpart ZZZZ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[Authority for Term: §63.6605(b) of 40 CFR Part 63, Subpart ZZZZ]

(3) Unless meeting the requirements of 40 CFR 63.6625(i), the permittee shall change the oil and filter every 1,000 hours of operation or annually, whichever comes first; shall inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first; and shall inspect all hoses and belts every 500 hours of operation or annually, whichever

comes first, and replace them as necessary. A log shall be maintained for the hours of operation between each oil and filter change and the date of each oil/filter change and inspection.

[Authority for Term: §63.6625(i) and Table 2d of 40 CFR Part 63, Subpart ZZZZ, #1]

(4) The permittee shall minimize the engine's time spent at idle during startup and shall minimize the startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

[Authority for Term: §63.6625(h) of 40 CFR Part 63, Subpart ZZZZ and Table 2d of 40 CFR Part 63, Subpart ZZZZ, #1]

(5) The maximum annual operating hours for each emissions unit listed above shall not exceed 4300 hours.

[Authority for Term: OAC rule 3745-31-05(E)]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the operating hours for each emissions unit listed above.

[Authority for Term: OAC rule 3745-31-05(E)]

(2) In order to demonstrate compliance with the work and management practices identified in Table 2d to the subpart; continuous compliance according to #9 in Table 6; and to document that the engine was operated and maintained according to the facility's maintenance plan and work and management practices, the permittee shall maintain records of: the maintenance and inspections conducted on the stationary RICE in conjunction with records for the hours of operation; a record of each idle and/or startup time that exceeded 30 minutes; and records for the occurrence and duration of each malfunction of the RICE and the corrective actions taken to minimize emissions and restore the engine to normal operations. These records shall be maintained for at least 5 years after the date of implementation.

[Authority for Term: §63.6655(e) and §63.6660 of 40 CFR Part 63, Subpart ZZZZ]

e) Reporting Requirements

(1) None.

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:

Visible PE from the exhaust stack serving the emissions units listed above shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

If required, compliance with the allowable visible PE limitation above shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

[Authority for term: OAC rule 3745-17-03(B)(1) and OAC rule 3745-77-07(C)(1)]

b. Emission Limitation:

0.310 lb PE/MM Btu

Applicable Compliance Method:

If required, compliance with the allowable PE limitation above shall be demonstrated through exhaust emission tests performed in accordance with Methods 1 through 5 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1)]

c. Emission Limitations:

For emissions unit P017, the exhaust emissions from this engine shall not exceed 7.72 pounds of NO_x per hour.

For emissions unit P018, the exhaust emissions from this engine shall not exceed 3.7 pounds of NO_x per hour.

Applicable Compliance Method:

Compliance with the hourly allowable NO_x emission limitations above shall be demonstrated by multiplying the NO_x emission factor of 4.41 lbs NO_x/MM Btu* by the maximum fuel input in MM Btu/hour.

If required, compliance with the hourly allowable NO_x emission limitations above shall be demonstrated through exhaust emission tests performed in accordance with Methods 1 through 4 and 7 or 7A, as applicable, of 40 CFR Part 60, Appendix A.

*The emission factor is from Chapter 3.3, Table 3.3-1, “Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines”.

[Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

d. Emission Limitations:

For emissions unit P017, the exhaust emissions from this engine shall not exceed 1.66 pounds of CO per hour.

For emissions unit P018, the exhaust emissions from this engine shall not exceed 0.8 pound of CO per hour.

Applicable Compliance Method:

Compliance with the hourly allowable CO emission limitations above shall be demonstrated by multiplying the CO emission factor of 0.95 lb CO/MM Btu* by the maximum hourly fuel input in MM Btu/hour.

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitations above through exhaust emission tests performed in accordance with Methods 1 through 4 and 10 of 40 CFR Part 60, Appendix A.

*The emission factor is from Chapter 3.3, Table 3.3-1, "Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines".

[Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

e. Emission Limitations:

For emissions unit P017, the exhaust emissions from this engine shall not exceed 0.63 pound of OC per hour.

For emissions unit P018, the exhaust emissions from this engine shall not exceed 0.3 pound of OC per hour.

Applicable Compliance Method:

Compliance with the hourly allowable OC emission limitations above shall be demonstrated by multiplying the OC emission factor of 0.36 lb OC/MM Btu* by the maximum hourly fuel input in MM Btu/hour.

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitations above through exhaust emission tests performed in accordance with Methods 1 through 4 and 25 or 25A, as appropriate, of 40 CFR Part 60, Appendix A,.

*The emission factor is from Chapter 3.3, Table 3.3-1, "Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines".

[Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

f. Emission Limitations:

For emissions unit P017, the exhaust emissions from this engine shall not exceed 0.51 pound of SO_x per hour.

For emissions unit P018, the exhaust emissions from this engine shall not exceed 0.24 pound of SO_x per hour.

Applicable Compliance Method:

Compliance with the hourly allowable SO_x emission limitations above shall be demonstrated by multiplying the SO_x emission factor of 0.29 lbSO_x /MM Btu* by the maximum hourly fuel input in MM Btu/hour.

If required, the permittee shall demonstrate compliance with the hourly allowable SO_x emission limitations above through exhaust emission tests performed in accordance with Methods 1 through 4 and 6 or 6C, as appropriate, of 40 CFR Part 60, Appendix A,.

*The emission factor is from Chapter 3.3, Table 3.3-1, "Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines".

[Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

g. Emission Limitations:

For emissions unit P017, the exhaust emissions from this engine shall not exceed 0.54 pound of PE per hour.

For emissions unit P018, the exhaust emissions from this engine shall not exceed 0.26 pound of PE per hour.

Applicable Compliance Method:

Compliance with the hourly allowable PE limitations above shall be demonstrated by multiplying the PE factor of 0.31 lb PE /MM Btu* by the maximum hourly fuel input in MM Btu/hour.

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitations above through exhaust emission tests performed in accordance with Methods 1 through 5 of 40 CFR Part 60, Appendix A.

*The emission factor is from Chapter 3.3, Table 3.3-1, "Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines".

[Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

h. Emission Limitations:

For emissions unit P017, the exhaust emissions from this engine shall not exceed: 16.6 tons of NO_x per year; 3.57 tons of CO per year; 1.1 tons of SO_x per year; 1.17 tons of PE per year; and 1.35 tons of OC per year.

For emissions unit P018, the exhaust emissions from this engine shall not exceed: 8.0 tons of NO_x per year; 1.72 tons of CO per year; 0.52 ton of SO_x per year; 0.56 ton of PE per year; and 0.65 ton of OC per year.

Applicable Compliance Method:

Compliance with the annual allowable emission limitations above shall be demonstrated by multiplying the hourly allowable emission limitation by the maximum annual allowable operating hours (4300 hours per year), and then dividing by 2000 pounds per ton. Therefore, as long as compliance with the hourly allowable emission limitations and the maximum annual operating hours are maintained, compliance with the annual allowable emission limitations shall be assumed.

[Authority for term: OAC rule 3745-31-05 and OAC rule 3745-77-07(C)(1)]

You must demonstrate continuous compliance by operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or by developing and following your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

g) Miscellaneous Requirements

(1) Modeling to demonstrate compliance with, the “Toxic Air Contaminant Statute”, ORC 3704.03(F)(4)(b), was not necessary because the emissions units’ listed above maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires a permittee to apply for and obtain a new or modified Permit to Install (PTI) prior to making a “modification” as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new PTI.