☒ **Synthetic Minor Determination and/or** ☐ **Netting Determination**
**Permit To Install 06-06462**

**A. Source Description**

Bechtel Jacobs Company, LLC., is planning to install three number 2 fuel oil fired boilers (78.9, 78.9 & 70.4 MMBTU/hr respectively) with three 40,000 gallon fuel oil storage tanks at the Portsmouth Gaseous Diffusion Plant, Piketon Ohio, Pike County. The boilers will generate hot water for building heating systems. Bechtel Jacobs Company, LLC has requested fuel restrictions to avoid PSD permitting requirements.

**B. Facility Emissions and Attainment Status**

The boilers have the potential to emit $SO_2$ above PSD thresholds (250 tpy) . The restricted emission levels will be 247.4 tpy for all three boilers combined.

**C. Source Emissions**

Bechtel Jacobs Company, LLC has requested federally enforceable limits on the amount and type of fuel to be burned in the boilers. This restriction limits the boilers fuel to 0.5 percent sulfur and 6,970,300 gallons per 12-month period, or total $SO_2$ emissions to 247.4 tons per year.

**D. Conclusion**

By restricting the type and amount of fuel used in the boilers, the terms and conditions of this permit to install will limit the facility's maximum $SO_2$ emissions to less than 250 tons per year and less than PSD thresholds. Excursion reports will be required for each emissions unit to ensure compliance.

State of Ohio Environmental Protection Agency

**RE: DRAFT PERMIT TO INSTALL** **CERTIFIED MAIL**
**PIKE COUNTY**

Street Address: Lazarus Gov. Center **TELE:** (614) 644-3020 **FAX:** (614) 644-2329 Mailing Address: Lazarus Gov. Center

**Application No:** 06-06462

**DATE:** 4/26/2001

Portsmouth Gaseous Diffusion Plant/Becht
J E King
PO Box 900
Piketon, OH 45661

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install may be issued in proposed of final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **$1650** will be due. Please do not submit any payment now.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Very truly yours,

Thomas G. Rigo
Field Operations and Permit Section
Division of Air Pollution Control

**CC: USEPA SEDO KY WV**

**DRAFT PERMIT TO INSTALL 06-06462**

| | |
|---|---|
| Application Number: | 06-06462 |
| APS Premise Number: | 0666000050 |
| Permit Fee: | **To be entered upon final issuance** |
| Name of Facility: | Portsmouth Gaseous Diffusion Plant/Becht |
| Person to Contact: | J E King |
| Address: | PO Box 900<br>Piketon, OH 45661 |

Location of proposed air contaminant source(s) [emissions unit(s)]:
**3930 US Rt 23 S**
**Piketon, Ohio**

Description of proposed emissions unit(s):
**Two 79 MMBtu per hour no 2 fuel oil fired boilers and one 70 MMBtu per hour no 2 fuel oil fired boiler.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

## A. State and Federally Enforceable Permit To Install General Terms and Conditions

### 1. Monitoring and Related Recordkeeping and Reporting Requirements

a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

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

ii. The date(s) analyses were performed.

iii. The company or entity that performed the analyses.

iv. The analytical techniques or methods used.

v. The results of such analyses.

vi. The operating conditions existing at the time of sampling or measurement.

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, 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.

c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:

i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

ii. Quarterly written reports of (i) any deviations from federally enforceable <u>emission limitations</u>, <u>operational restrictions</u>, <u>and control device operating parameter limitations</u>, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.11 below if no deviations occurred during the quarter.

iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.

iv. 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 are true, accurate, and complete.

**2. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

**3. Risk Management Plans**

If the permittee is required to 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"), the permittee shall comply with the requirement to register such a plan.

**4. 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.

**5. 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.

**6. General Requirements**

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

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

c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. 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.

**7. 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. The permittee shall pay all applicable Permit To Install fees within 30 days after the issuance of this Permit To Install.

**8. 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.

**9. Compliance Requirements**

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

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

i. 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.

ii. 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 ORC section 3704.08.

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

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

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

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

ii. 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.

**10. Permit To Operate Application**

a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete

Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35 , the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the source(s) covered by this permit.

**11. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

## B. State Only Enforceable Permit To Install General Terms and Conditions

### 1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

### 2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. 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, i.e., 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.)

### 3. Permit Transfers

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

### 4. 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.

### 5. Termination of Permit To Install

This permit to install shall terminate within eighteen months of the effective date of the permit to install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**6. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

**7. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**8. Applicability**

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

**9. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit To Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**10. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)**

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, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

## C. Permit To Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)**
**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

| Pollutant | Tons Per Year |
|---|---|
| NOx | 97.6 |
| SO2 | 247.4 |
| CO | 19.5 |
| TOC | 5.0 |
| PM | 7.0 |

## Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

### A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

None

### B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

None

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

## A. State and Federally Enforceable Section

## I. Applicable Emissions Limitations and/or Control Requirements

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

| Operations, Property, and/or Equipment | Applicable Rules/Requirements |
|---|---|
| B007 - 78.9 MMBtu per hour no 2 fuel oil fired boiler. | OAC rule 3745-31-05(A)(3) |
| | 40 CFR 60, Subpart Dc |
| | OAC rule 3745-18-06(A) |
| | OAC rule 3745-17-10(B)(1) |
| | OAC rule 3745-17-07(A) |
| | OAC rule 3745-31-05 (D) |

| Applicable Emissions Limitations/Control Measures | | |
|---|---|---|
| | | 19.5 tons per rolling 12-month period |
| | particulate matter (PM) emissions shall not exceed (0.02 lb/MMBtu actual heat input) | total organic carbon (TOC) shall not exceed 5.0 tons per rolling 12-month period |
| The requirements of this rule also include compliance with the requirements of 40 CFR 60 Subpart Dc, OAC rule 3745-18-06(A), | 1.58 lb/hr, and 6.92 ton per year | |
| 3745-17-10(B)(1), OAC rule 3745-17-07(A), and OAC 3745-31-05(D). | | particulate matter (PM) shall not exceed 7.0 tons per rolling 12-month period |
| | The emission limitations specified by these rules are less stringent than those established by OAC 3745-31-05. | |
| nitrogen oxide (NOx) emissions shall not exceed 0.20 lb/MMBtu actual heat input | | |
| 15.65 lb/hr, and 68.55 ton per year | 0.02 lb PM/MMBtu actual heat input, | |
| | 20% opacity as a six minute average, except as provided by rule | |
| sulfur dioxide ($SO_2$) emissions shall not exceed 0.50 lb/MMBtu actual heat input | | |
| 39.5 lb/hr, and 173.0 ton per year | **TOTAL TONS PER YEAR** (including B007, B008, B009 based on fuel usage restriction of 6,970,300 gallons based upon a rolling, 12-month summation) | |
| carbon monoxide (CO) emissions shall not exceed 0.04 lb/MMBtu actual heat input | | |
| 3.16 lb/hr, and 13.8 ton per year | sulfur dioxide ($SO_2$) shall not exceed 247.4 tons per rolling 12-month period | |
| Total organic compounds (TOC) emissions shall not exceed 0.01 lb/MMBtu actual heat input | nitrogen oxide (NOx) shall not exceed 97.6 tons per rolling 12-month period | |
| 0.79 lb/hr, and 3.46 ton per year | carbon monoxide (CO) shall not exceed | |

**2. Additional Terms and Conditions**

**2.a** None

## II. Operational Restrictions

1. The total maximum fuel usage of emissions units B007, B008 and B009 combined shall not exceed 6,970,300 gallons, based upon a rolling, 12-month summation.

   To ensure enforceability during the first 12 calendar months following the startup of this emissions unit the permittee shall not exceed the monthly fuel usage restrictions specified in the following table:

| Month | Cumulative fuel usage for B007, B008, B009 |
|---|---|
| 1 | 1167120 |
| 1-2 | 2334240 |
| 1-3 | 3501360 |
| 1-4 | 4668480 |
| 1-5 | 5835600 |
| 1-6,..,12 | 6970300 |

   After the first 12 calendar months following the startup of emissions unit B007, B008, B009 compliance with the annual fuel usage restriction shall be based on a rolling, 12-month summation.

2. The permittee shall burn only number 2 fuel oil in this emission unit with a maximum sulfur content of 0.5 percent.

3. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

## III. Monitoring and/or Recordkeeping Requirements

1. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.

2. The permittee shall maintain monthly records of the following information for each emissions unit B007, B008 and B009:

a. Total gallons of fuel used;

b. Beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month summation of fuel used.

Also, during the first 12 calendar months of operation following issuance of this permit, the permittee shall record the cumulative gallons of fuel used for each calendar month.

## IV. Reporting Requirements

1. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:

   a. the total quantity of oil received in each shipment (gallons);

   b. the weighted* average sulfur dioxide emission rate (pounds/mmBtu) for the oil received during the calendar month; and

   c. the weighted* average heat content (Btu/gallon) of the oil received during the calendar month.

   *In proportion to the quantity of oil received in each shipment during the calendar month.
   These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.

2. The permittee shall submit deviation (excursion) reports that identify any record which shows that the sulfur content of the fuel exceeded 0.5 percent by weight. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(2).

3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month fuel usage limitation and, for the first 12 calendar months of operation, all exceedances of the maximum allowable cumulative fuel usage levels. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).

4. This emissions unit is subject to the applicable provisions of Subpart Dc of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection

Agency, 40 CFR Part 60. The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

a. construction date (no later than 30 days after such date);

b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);

c. actual start-up date (within 15 days after such date); and,

d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P. O. Box 163669
Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Southeast District Office
Division of Air Pollution Control
2195 Front Street
Logan, Ohio 43138

5. The permittee shall also submit annual reports which specify the total SO2 , CO, TOC, PM and NOx emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year and may be part of the facilities Title V fee emissions report .

## V. Testing Requirements

**1.** The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of such emissions unit.

b. The emission testing shall be conducted to demonstrate compliance with the lb/MMbtu limitations for $NO_X$ and CO.

c. The following test method(s) shall be employed to demonstrate compliance with the above

emissions limitations: for $NO_x$, Method 7 of 40 CFR Part 60, Appendix A; and for CO Method 10 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

d. The testing shall be conducted while the emissions unit is operating at or near its maximum capacity , unless otherwise specified or approved by Ohio EPA or local air agency.

e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southeast District Office. 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, Southeast District Office refusal to accept the results of the emission test(s).

f. Personnel from the Ohio EPA, Southeast District Office 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.

g. 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 Ohio EPA, Southeast District Office 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 Ohio EPA, Southeast District Office.

**2.** Compliance with the allowable emission limitations in this permit shall be determined according to the following methods:

**2.a** Emission Limitation:

NOx
0.20 lb/MMBtu, 15.65 lb/hr, and 68.55 tons per year

Applicable Compliance Method:

Initial compliance with the allowable lbs/MMBtu emission limitations shall be demonstrated by the performance testing as described in condition V.1

lb/MMBtu
Compliance shall be demonstrated from the results of the most recent performance test results (or use the manufacture's value 0.20 lb NOx /MMBTU if no test results are available).

lb/hr
Compliance shall be demonstrated by multiplying the most recent performance test results emission factor in lb/MMBtu (or use the manufacture's value 0.20 lb NOx /MMBTU if no test results are available) by the maximum BTU input rate (78.9 MMBTU/hr).

tons per year
Compliance shall be demonstrated by multiplying the NOx emission factor ( 0.028 lb/gal) by the actual quantity of fuel burned during the period and dividing by 2000 lb/ton.

**2.b** Emission Limitation:

$SO_2$
0.50 lb/MMBTU, 39.5 lb/hr, and 173.0 tons per year

Applicable Compliance Method:

lb/MMBTU
Compliance shall be demonstrated by the monitoring and record keeping requirements in this permit .

lb/hr
Compliance shall be demonstrated by multiplying the emission factor (lb/MMBTU) from the monitoring and record keeping requirements by the maximum Btu input rate (78.9 MMBTU/hr).

tons per year
Compliance shall be demonstrated by multiplying the fuel sulfur content ,in lb/gal (0.071 lb/gal max) by the actual quantity of fuel burned and dividing by 2000 lb/ton.

**2.c** Emission Limitation:

CO
0.04 lb/MMBTU, 3.16 lb/hr, and 13.8 tons per year

Applicable Compliance Method:

Initial compliance with the allowable lbs/MMBTU emission limitations shall be demonstrated by the performance testing as described in condition V.1

lb/MMBTU
Compliance shall be demonstrated from the results of the most recent performance test

results (or use the manufacture's value 0.04 lb CO /MMBTU if no test results are available).

lb/hr
Compliance shall be demonstrated by multiplying the most recent performance test results emission factor in lb/MMBtu (or use the manufacture's value 0.04 lb CO /MMBTU if no test results are available) by the maximum BTU input rate (78.9 MMBTU/hr).

tons per year
Compliance shall be demonstrated by multiplying the CO emission factor ( 0.0056 lb/gal) by the actual quantity of fuel burned during the period and dividing by 2000 lb/ton.

**2.d** Emission Limitation:

TOC
0.01 lb/MMBTU, 0.79 lb/hr, and 3.46 tons per year

Applicable Compliance Method:

lb/MMBTU
Compliance shall be demonstrated using the manufacturer supplied performance data emission factor (0.01 lb TOC /MMBTU).

lb/hr
Compliance shall be demonstrated by multiplying the manufacturer supplied performance data emission factor (0.0l lb TOC /MMBTU) by the maximum Btu input rate (78.9 MMBTU/hr).

tons per year
Compliance shall be demonstrated by multiplying the TOC emission factor ( 0.0014 lb/gal) by the actual quantity of fuel burned during the period and dividing by 2000 lb/ton.

**2.e** Emission Limitation:

PM
0.02 lb/MMBTU, 1.58 lb/hr, and 6.92 ton per year

Applicable Compliance Method:

If required, compliance with the lbs/MMBTU emission limitations shall be demonstrated by the performance testing in condition 40 CFR 60 Appendix A.

lb/MMBTU
Compliance shall be demonstrated using the manufacturer supplied performance data emission factor (0.02 lb PM /MMBTU).

lb/hr
Compliance shall be demonstrated by multiplying the manufacturer supplied performance data emission factor (0.02 lb PM /MMBTU) by the maximum BTU input rate (78.9 MMBTU/hr).

tons per year
Compliance shall be demonstrated by multiplying the PM emission factor ( 0.0028 lb/gal) by the actual quantity of fuel burned during the period and dividing by 2000 lb/ton.

**2.f** Emission Limitation:

Tons $SO_2$ per rolling 12 -month period shall not exceed 247.4.

Applicable Compliance Method:

Compliance with the rolling 12-month emission limitations shall be calculated from the record keeping required in A.III. of this permit. ( total gallons fuel used in B007, B008 & B008 during the period multiplied by 0.071 lb $SO_2$/gal divided by 2000 )

**2.g** Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance shall be demonstrated by the method specified in OAC rule 3745-17-03(B)(1).

**2.h** Emission Limitation:

Tons NOx per rolling 12 -month period shall not exceed 97.6.

Applicable Compliance Method:

Compliance with the rolling 12-month emission limitations shall be calculated from the

record keeping required in A.III. of this permit. ( total gallons fuel used in B007, B008 & B008 during the period multiplied by 0.028 lb NOx/gal divided by 2000 ).

**2.i** Emission Limitation:

Tons CO per rolling 12 -month period shall not exceed 19.5.

Applicable Compliance Method:

Compliance with the rolling 12-month emission limitations shall be calculated from the record keeping required in A.III. of this permit. ( total gallons fuel used in B007, B008 & B008 during the period multiplied by 0.0056 lb CO/gal divided by 2000 ).

**2.j** Emission Limitation:

Tons TOC per rolling 12 -month period shall not exceed 5.0.

Applicable Compliance Method:

Compliance with the rolling 12-month emission limitations shall be calculated from the record keeping required in A.III. of this permit. ( total gallons fuel used in B007, B008 & B008 during the period multiplied by 0.0014 lb TOC/gal divided by 2000 ).

**2.k** Emission Limitation:

Tons PM per rolling 12 -month period shall not exceed 7.0.

Applicable Compliance Method:

Compliance with the rolling 12-month emission limitations shall be calculated from the record keeping required in A.III. of this permit. ( total gallons fuel used in B007, B008 & B008 during the period multiplied by 0.0028 lb PM/gal divided by 2000 ).

## VI. Miscellaneous Requirements

None

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| B007 - 78.9 MMBtu per hour no 2 fuel oil fired boiler. | None | None |

**2. Additional Terms and Conditions**

**2.a** None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | |
|---|---|---|
| B008 - 78.9 MMBtu per hour no 2 fuel oil fired boiler. | OAC rule 3745-31-05(A)(3) | |
| | | 40 CFR 60, Subpart Dc |
| | | OAC rule 3745-18-06(A) |
| | | OAC rule 3745-17-10(B)(1) |
| | | OAC rule 3745-17-07(A) |
| | | OAC rule 3745-31-05 (D) |

| Applicable Emissions Limitations/Control Measures | | |
|---|---|---|
| | particulate matter (PM) emissions shall not exceed (0.02 lb/MMBtu actual heat input) | total organic carbon (TOC) shall not exceed 5.0 tons per rolling 12-month period |
| The requirements of this rule also include compliance with the requirements of 40 CFR 60 Subpart Dc, OAC rule 3745-18-06(A), 3745-17-10(B)(1), OAC rule 3745-17-07(A), and OAC 3745-31-05(D). | 1.58 lb/hr, and 6.92 ton per year | particulate matter (PM) shall not exceed 7.0 tons per rolling 12-month period |
| | The emission limitations specified by these rules are less stringent than those established by OAC 3745-31-05. | |
| nitrogen oxide (NOx) emissions shall not exceed 0.20 lb/MMBtu actual heat input 15.65 lb/hr, and 68.55 ton per year | 0.02 lb PM/MMBtu actual heat input, | |
| | 20% opacity as a six minute average, except as provided by rule | |
| sulfur dioxide ($SO_2$) emissions shall not exceed 0.50 lb/MMBtu actual heat input 39.5 lb/hr, and 173.0 ton per year | **TOTAL TONS PER YEAR** (including B007, B008, B009 based on fuel usage restriction of 6,970,300 gallons based upon a rolling, 12-month summation) | |
| carbon monoxide (CO) emissions shall not exceed 0.04 lb/MMBtu actual heat input 3.16 lb/hr, and 13.8 ton per year | sulfur dioxide ($SO_2$) shall not exceed 247.4 tons per rolling 12-month period | |
| | nitrogen oxide (NOx) shall not exceed 97.6 tons per rolling 12-month period | |
| Total organic compounds (TOC) emissions shall not exceed 0.01 lb/MMBtu actual heat input 0.79 lb/hr, and 3.46 ton per year | carbon monoxide (CO) shall not exceed 19.5 tons per rolling 12-month period | |

**2. Additional Terms and Conditions**

**2.a** None

## II. Operational Restrictions

1. The total maximum fuel usage of emissions units B007, B008 and B009 combined shall not exceed 6,970,300 gallons, based upon a rolling, 12-month summation.

   To ensure enforceability during the first 12 calendar months following the startup of this emissions unit the permittee shall not exceed the monthly fuel usage restrictions specified in the following table:

| Month | Cumulative fuel usage for B007, B008, B009 |
|---|---|
| 1 | 1167120 |
| 1-2 | 2334240 |
| 1-3 | 3501360 |
| 1-4 | 4668480 |
| 1-5 | 5835600 |
| 1-6,..,12 | 6970300 |

   After the first 12 calendar months following the startup of emissions unit B007, B008, B009 compliance with the annual fuel usage restriction shall be based on a rolling, 12-month summation.

2. The permittee shall burn only number 2 fuel oil in this emission unit with a maximum sulfur content of 0.5 percent.

3. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

## III. Monitoring and/or Recordkeeping Requirements

1. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.

2. The permittee shall maintain monthly records of the following information for each emissions unit B007, B008 and B009:

a. Total gallons of fuel used;

b. Beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month summation of fuel used.

Also, during the first 12 calendar months of operation following issuance of this permit, the permittee shall record the cumulative gallons of fuel used for each calendar month.

## IV. Reporting Requirements

1. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:

   a. the total quantity of oil received in each shipment (gallons);

   b. the weighted* average sulfur dioxide emission rate (pounds/mmBtu) for the oil received during the calendar month; and

   c. the weighted* average heat content (Btu/gallon) of the oil received during the calendar month.

   *In proportion to the quantity of oil received in each shipment during the calendar month.
   These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.

2. The permittee shall submit deviation (excursion) reports that identify any record which shows that the sulfur content of the fuel exceeded 0.5 percent by weight. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(2).

3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month fuel usage limitation and, for the first 12 calendar months of operation, all exceedances of the maximum allowable cumulative fuel usage levels. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).

4. This emissions unit is subject to the applicable provisions of Subpart Dc of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60. The application and enforcement of these standards are delegated to the

Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

a. construction date (no later than 30 days after such date);

b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);

c. actual start-up date (within 15 days after such date); and,

d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P. O. Box 163669
Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Southeast District Office
Division of Air Pollution Control
2195 Front Street
Logan, Ohio 43138

5. The permittee shall also submit annual reports which specify the total SO2 , CO, TOC, PM and NOx emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year and may be part of the facilities Title V fee emissions report .

## V. Testing Requirements

**1.** The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of such emissions unit.

b. The emission testing shall be conducted to demonstrate compliance with the lb/MMbtu limitations for $NO_X$ and CO.

c. The following test method(s) shall be employed to demonstrate compliance with the above emissions limitations: for $NO_x$, Method 7 of 40 CFR Part 60, Appendix A; and for CO

Method 10 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

d. The testing shall be conducted while the emissions unit is operating at or near its maximum capacity , unless otherwise specified or approved by Ohio EPA or local air agency.

e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southeast District Office. 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, Southeast District Office refusal to accept the results of the emission test(s).

f. Personnel from the Ohio EPA, Southeast District Office 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.

g. 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 Ohio EPA, Southeast District Office 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 Ohio EPA, Southeast District Office.

**2.** Compliance with the allowable emission limitations in this permit shall be determined according to the following methods:

**2.a** Emission Limitation:

NOx
0.20 lb/MMBtu, 15.65 lb/hr, and 68.55 tons per year

Applicable Compliance Method:

Initial compliance with the allowable lbs/MMBtu emission limitations shall be demonstrated by the performance testing as described in condition V.1

lb/MMBtu

Compliance shall be demonstrated from the results of the most recent performance test results (or use the manufacture's value 0.20 lb NOx /MMBTU if no test results are available).

lb/hr
Compliance shall be demonstrated by multiplying the most recent performance test results emission factor in lb/MMBtu (or use the manufacture's value 0.20 lb NOx /MMBTU if no test results are available) by the maximum BTU input rate (78.9 MMBTU/hr).

tons per year
Compliance shall be demonstrated by multiplying the NOx emission factor ( 0.028 lb/gal) by the actual quantity of fuel burned during the period and dividing by 2000 lb/ton.

**2.b** Emission Limitation:

$SO_2$
0.50 lb/MMBTU, 39.5 lb/hr, and 173.0 tons per year

Applicable Compliance Method:

lb/MMBTU
Compliance shall be demonstrated by the monitoring and record keeping requirements in this permit .

lb/hr
Compliance shall be demonstrated by multiplying the emission factor (lb/MMBTU) from the monitoring and record keeping requirements by the maximum Btu input rate (78.9 MMBTU/hr).

tons per year
Compliance shall be demonstrated by multiplying the fuel sulfur content ,in lb/gal (0.071 lb/gal max) by the actual quantity of fuel burned and dividing by 2000 lb/ton.

**2.c** Emission Limitation:

CO
0.04 lb/MMBTU, 3.16 lb/hr, and 13.8 tons per year

Applicable Compliance Method:

Initial compliance with the allowable lbs/MMBTU emission limitations shall be demonstrated by the performance testing as described in condition V.1

lb/MMBTU
Compliance shall be demonstrated from the results of the most recent performance test results (or use the manufacture's value 0.04 lb CO /MMBTU if no test results are

available).

lb/hr
Compliance shall be demonstrated by multiplying the most recent performance test results emission factor in lb/MMBtu (or use the manufacture's value 0.04 lb CO /MMBTU if no test results are available) by the maximum BTU input rate (78.9 MMBTU/hr).

tons per year
Compliance shall be demonstrated by multiplying the CO emission factor ( 0.0056 lb/gal) by the actual quantity of fuel burned during the period and dividing by 2000 lb/ton.

**2.d** Emission Limitation:

TOC
0.01 lb/MMBTU, 0.79 lb/hr, and 3.46 tons per year

Applicable Compliance Method:

lb/MMBTU
Compliance shall be demonstrated using the manufacturer supplied performance data emission factor (0.01 lb TOC /MMBTU).

lb/hr
Compliance shall be demonstrated by multiplying the manufacturer supplied performance data emission factor (0.0l lb TOC /MMBTU) by the maximum Btu input rate (78.9 MMBTU/hr).

tons per year
Compliance shall be demonstrated by multiplying the TOC emission factor ( 0.0014 lb/gal) by the actual quantity of fuel burned during the period and dividing by 2000 lb/ton.

**2.e** Emission Limitation:

PM
0.02 lb/MMBTU, 1.58 lb/hr, and 6.92 ton per year

Applicable Compliance Method:

If required, compliance with the lbs/MMBTU emission limitations shall be demonstrated by the performance testing in condition 40 CFR 60 Appendix A.

lb/MMBTU
Compliance shall be demonstrated using the manufacturer supplied performance data emission factor (0.02 lb PM /MMBTU).

lb/hr
Compliance shall be demonstrated by multiplying the manufacturer supplied performance data emission factor (0.02 lb PM /MMBTU) by the maximum BTU input rate (78.9 MMBTU/hr).

tons per year
Compliance shall be demonstrated by multiplying the PM emission factor ( 0.0028 lb/gal) by the actual quantity of fuel burned during the period and dividing by 2000 lb/ton.

**2.f** Emission Limitation:

Tons $SO_2$ per rolling 12 -month period shall not exceed 247.4.

Applicable Compliance Method:

Compliance with the rolling 12-month emission limitations shall be calculated from the record keeping required in A.III. of this permit. ( total gallons fuel used in B007, B008 & B008 during the period multiplied by 0.071 lb $SO_2$/gal divided by 2000 )

**2.g** Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance shall be demonstrated by the method specified in OAC rule 3745-17-03(B)(1).

**2.h** Emission Limitation:

Tons NOx per rolling 12 -month period shall not exceed 97.6.

Applicable Compliance Method:

Compliance with the rolling 12-month emission limitations shall be calculated from the record keeping required in A.III. of this permit. ( total gallons fuel used in B007, B008 &

B008 during the period multiplied by 0.028 lb NOx/gal divided by 2000 ).

**2.i** Emission Limitation:

Tons CO per rolling 12 -month period shall not exceed 19.5.

Applicable Compliance Method:

Compliance with the rolling 12-month emission limitations shall be calculated from the record keeping required in A.III. of this permit. ( total gallons fuel used in B007, B008 & B008 during the period multiplied by 0.0056 lb CO/gal divided by 2000 ).

**2.j** Emission Limitation:

Tons TOC per rolling 12 -month period shall not exceed 5.0.

Applicable Compliance Method:

Compliance with the rolling 12-month emission limitations shall be calculated from the record keeping required in A.III. of this permit. ( total gallons fuel used in B007, B008 & B008 during the period multiplied by 0.0014 lb TOC/gal divided by 2000 ).

**2.k** Emission Limitation:

Tons PM per rolling 12 -month period shall not exceed 7.0.

Applicable Compliance Method:

Compliance with the rolling 12-month emission limitations shall be calculated from the record keeping required in A.III. of this permit. ( total gallons fuel used in B007, B008 & B008 during the period multiplied by 0.0028 lb PM/gal divided by 2000 ).

## VI. Miscellaneous Requirements

None

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| B008 - 78.9 MMBtu per hour no 2 fuel oil fired boiler. | None | None |

**2. Additional Terms and Conditions**

**2.a** None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | |
|---|---|---|
| B009 - 70.4 MMBtu per hour no 2 fuel oil fired boiler. | OAC rule 3745-31-05(A)(3) | |
| | | 40 CFR 60, Subpart Dc |
| | | OAC rule 3745-18-06(A) |
| | | OAC rule 3745-17-10(B)(1) |
| | | OAC rule 3745-17-07(A) |
| | | OAC rule 3745-31-05 (D) |

| Applicable Emissions Limitations/Control Measures | | |
|---|---|---|
| | particulate matter (PM) emissions shall not exceed (0.02 lb/MMBtu actual heat input) | total organic carbon (TOC) shall not exceed 5.0 tons per rolling 12-month period |
| The requirements of this rule also include compliance with the requirements of 40 CFR 60 Subpart Dc, OAC rule 3745-18-06(A), 3745-17-10(B)(1), OAC rule 3745-17-07(A), and OAC 3745-31-05(D). | 1.41 lb/hr, and 6.17 ton per year<br><br>The emission limitations specified by these rules are less stringent than those established by OAC 3745-31-05. | particulate matter (PM) shall not exceed 7.0 tons per rolling 12-month period |
| nitrogen oxide (NOx) emissions shall not exceed 0.20 lb/MMBtu actual heat input 14.06 lb/hr, and 61.7 ton per year | 0.02 lb PM/MMBtu actual heat input,<br><br>20% opacity as a six minute average, except as provided by rule | |
| sulfur dioxide ($SO_2$) emissions shall not exceed 0.50 lb/MMBtu actual heat input 35.2 lb/hr, and 154.2 ton per year | **TOTAL TONS PER YEAR** (including B007, B008, B009 based on fuel usage restriction of 6,970,300 gallons based upon a rolling, 12-month summation) | |
| carbon monoxide (CO) emissions shall not exceed 0.04 lb/MMBtu actual heat input 2.82 lb/hr, and 12.4 ton per year | sulfur dioxide ($SO_2$) shall not exceed 247.4 tons per rolling 12-month period | |
| Total organic compounds (TOC) emissions shall not exceed 0.01 lb/MMBtu actual heat input 0.704 lb/hr, and 3.08 ton per year | nitrogen oxide (NOx) shall not exceed 97.6 tons per rolling 12-month period<br><br>carbon monoxide (CO) shall not exceed 19.5 tons per rolling 12-month period | |

**2. Additional Terms and Conditions**

**2.a** None

## II. Operational Restrictions

1. The total maximum fuel usage of emissions units B007, B008 and B009 combined shall not exceed 6,970,300 gallons, based upon a rolling, 12-month summation.

   To ensure enforceability during the first 12 calendar months following the startup of this emissions unit the permittee shall not exceed the monthly fuel usage restrictions specified in the following table:

| Month | Cumulative fuel usage for B007, B008, B009 |
|---|---|
| 1 | 1167120 |
| 1-2 | 2334240 |
| 1-3 | 3501360 |
| 1-4 | 4668480 |
| 1-5 | 5835600 |
| 1-6,..,12 | 6970300 |

   After the first 12 calendar months following the startup of emissions unit B007, B008, B009 compliance with the annual fuel usage restriction shall be based on a rolling, 12-month summation.

2. The permittee shall burn only number 2 fuel oil in this emission unit with a maximum sulfur content of 0.5 percent.

3. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

## III. Monitoring and/or Recordkeeping Requirements

1. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.

2. The permittee shall maintain monthly records of the following information for each emissions unit B007, B008 and B009:

a. Total gallons of fuel used;

b. Beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month summation of fuel used.

Also, during the first 12 calendar months of operation following issuance of this permit, the permittee shall record the cumulative gallons of fuel used for each calendar month.

## IV. Reporting Requirements

1. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:

   a. the total quantity of oil received in each shipment (gallons);

   b. the weighted* average sulfur dioxide emission rate (pounds/mmBtu) for the oil received during the calendar month; and

   c. the weighted* average heat content (Btu/gallon) of the oil received during the calendar month.

   *In proportion to the quantity of oil received in each shipment during the calendar month.
   These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.

2. The permittee shall submit deviation (excursion) reports that identify any record which shows that the sulfur content of the fuel exceeded 0.5 percent by weight. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(2).

3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month fuel usage limitation and, for the first 12 calendar months of operation, all exceedances of the maximum allowable cumulative fuel usage levels. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(2).

4. This emissions unit is subject to the applicable provisions of Subpart Dc of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60. The application and enforcement of these standards are delegated to the

Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

a. construction date (no later than 30 days after such date);

b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);

c. actual start-up date (within 15 days after such date); and,

d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P. O. Box 163669
Columbus, Ohio 43216-3669

and

Ohio Environmental Protection Agency
Southeast District Office
Division of Air Pollution Control
2195 Front Street
Logan, Ohio 43138

5. The permittee shall also submit annual reports which specify the total SO2 , CO, TOC, PM and NOx emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year and may be part of the facilities Title V fee emissions report .

## V. Testing Requirements

**1.** The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of such emissions unit.

b. The emission testing shall be conducted to demonstrate compliance with the lb/MMbtu limitations for $NO_X$ and CO.

c. The following test method(s) shall be employed to demonstrate compliance with the above emissions limitations: for $NO_x$, Method 7 of 40 CFR Part 60, Appendix A; and for CO

Method 10 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

d. The testing shall be conducted while the emissions unit is operating at or near its maximum capacity , unless otherwise specified or approved by Ohio EPA or local air agency.

e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southeast District Office. 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, Southeast District Office refusal to accept the results of the emission test(s).

f. Personnel from the Ohio EPA, Southeast District Office 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.

g. 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 Ohio EPA, Southeast District Office 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 Ohio EPA, Southeast District Office.

**2.** Compliance with the allowable emission limitations in this permit shall be determined according to the following methods:

**2.a** Emission Limitation:

NOx
0.20 lb/MMBtu, 14.06 lb/hr, and 61.7 tons per year

Applicable Compliance Method:

Initial compliance with the allowable lbs/MMBtu emission limitations shall be demonstrated by the performance testing as described in condition V.1

lb/MMBtu

Compliance shall be demonstrated from the results of the most recent performance test results (or use the manufacture's value 0.20 lb NOx /MMBTU if no test results are available).

lb/hr
Compliance shall be demonstrated by multiplying the most recent performance test results emission factor in lb/MMBtu (or use the manufacture's value 0.20 lb NOx /MMBTU if no test results are available) by the maximum BTU input rate (70.4 MMBTU/hr).

tons per year
Compliance shall be demonstrated by multiplying the NOx emission factor ( 0.028 lb/gal) by the actual quantity of fuel burned during the period and dividing by 2000 lb/ton.

**2.b** Emission Limitation:

$SO_2$
0.50 lb/MMBTU, 35.2 lb/hr, and 154.2 tons per year

Applicable Compliance Method:

lb/MMBTU
Compliance shall be demonstrated by the monitoring and record keeping requirements in this permit .

lb/hr
Compliance shall be demonstrated by multiplying the emission factor (lb/MMBTU) from the monitoring and record keeping requirements by the maximum Btu input rate (70.4 MMBTU/hr).

tons per year
Compliance shall be demonstrated by multiplying the fuel sulfur content ,in lb/gal (0.071 lb/gal max) by the actual quantity of fuel burned and dividing by 2000 lb/ton.

**2.c** Emission Limitation:

CO
0.04 lb/MMBTU, 2.82 lb/hr, and 12.4 tons per year

Applicable Compliance Method:

Initial compliance with the allowable lbs/MMBTU emission limitations shall be demonstrated by the performance testing as described in condition V.1

lb/MMBTU
Compliance shall be demonstrated from the results of the most recent performance test results (or use the manufacture's value 0.04 lb CO /MMBTU if no test results are

available).

lb/hr
Compliance shall be demonstrated by multiplying the most recent performance test results emission factor in lb/MMBtu (or use the manufacture's value 0.04 lb CO /MMBTU if no test results are available) by the maximum BTU input rate (70.4 MMBTU/hr).

tons per year
Compliance shall be demonstrated by multiplying the CO emission factor ( 0.0056 lb/gal) by the actual quantity of fuel burned during the period and dividing by 2000 lb/ton.

**2.d** Emission Limitation:

TOC
0.01 lb/MMBTU, 0.704 lb/hr, and 3.08 tons per year

Applicable Compliance Method:

lb/MMBTU
Compliance shall be demonstrated using the manufacturer supplied performance data emission factor (0.01 lb TOC /MMBTU).

lb/hr
Compliance shall be demonstrated by multiplying the manufacturer supplied performance data emission factor (0.0l lb TOC /MMBTU) by the maximum Btu input rate (70.4 MMBTU/hr).

tons per year
Compliance shall be demonstrated by multiplying the TOC emission factor ( 0.0014 lb/gal) by the actual quantity of fuel burned during the period and dividing by 2000 lb/ton.

**2.e** Emission Limitation:

PM
0.02 lb/MMBTU, 1.41 lb/hr, and 6.17 ton per year

Applicable Compliance Method:

If required, compliance with the lbs/MMBTU emission limitations shall be demonstrated by the performance testing in condition 40 CFR 60 Appendix A.

lb/MMBTU
Compliance shall be demonstrated using the manufacturer supplied performance data emission factor (0.02 lb PM /MMBTU).

lb/hr
Compliance shall be demonstrated by multiplying the manufacturer supplied performance data emission factor (0.02 lb PM /MMBTU) by the maximum BTU input rate (70.4 MMBTU/hr).

tons per year
Compliance shall be demonstrated by multiplying the PM emission factor ( 0.0028 lb/gal) by the actual quantity of fuel burned during the period and dividing by 2000 lb/ton.

**2.f** Emission Limitation:

Tons $SO_2$ per rolling 12 -month period shall not exceed 247.4.

Applicable Compliance Method:

Compliance with the rolling 12-month emission limitations shall be calculated from the record keeping required in A.III. of this permit. ( total gallons fuel used in B007, B008 & B008 during the period multiplied by 0.071 lb $SO_2$/gal divided by 2000 )

**2.g** Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance shall be demonstrated by the method specified in OAC rule 3745-17-03(B)(1).

**2.h** Emission Limitation:

Tons NOx per rolling 12 -month period shall not exceed 97.6.

Applicable Compliance Method:

Compliance with the rolling 12-month emission limitations shall be calculated from the record keeping required in A.III. of this permit. ( total gallons fuel used in B007, B008 & B008 during the period multiplied by 0.028 lb NOx/gal divided by 2000 ).

**2.i** Emission Limitation:

Tons CO per rolling 12 -month period shall not exceed 19.5.

Applicable Compliance Method:

Compliance with the rolling 12-month emission limitations shall be calculated from the record keeping required in A.III. of this permit. ( total gallons fuel used in B007, B008 & B008 during the period multiplied by 0.0056 lb CO/gal divided by 2000 ).

**2.j** Emission Limitation:

Tons TOC per rolling 12 -month period shall not exceed 5.0.

Applicable Compliance Method:

Compliance with the rolling 12-month emission limitations shall be calculated from the record keeping required in A.III. of this permit. ( total gallons fuel used in B007, B008 & B008 during the period multiplied by 0.0014 lb TOC/gal divided by 2000 ).

**2.k** Emission Limitation:

Tons PM per rolling 12 -month period shall not exceed 7.0.

Applicable Compliance Method:

Compliance with the rolling 12-month emission limitations shall be calculated from the record keeping required in A.III. of this permit. ( total gallons fuel used in B007, B008 & B008 during the period multiplied by 0.0028 lb PM/gal divided by 2000 ).

## VI. Miscellaneous Requirements

None

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| B009 - 70.4 MMBtu per hour no 2 fuel oil fired boiler. | none | none |

**2. Additional Terms and Conditions**

**2.a** None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| T101 - 40000 gallon No. 2 Fuel Oil Storage Tank with submerged fill. | OAC rule 3745-31-05(A)(3) | The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part 60 Subpart Kb.<br><br>Emissions of volatile organic compounds (VOC) shall not exceed 0.03 TPY. |
| | OAC rule 3745-21-09(L) | See I.2 and III.2 |
| | 40 CFR 60.116b (a) and (b) | See III.1 below |

**2. Additional Terms and Conditions**

**2.a** The fixed roof storage tank shall be equipped with an internal floating roof.

**2.b** The automatic bleeder vents shall be closed at all times except when the roof is floated off or landed on the roof leg supports, and the rim vents, if provided, shall be set to open when the roof is being floated off the roof leg supports or is at the manufacturer's recommended setting.

**2.c** All openings, except stub drains, shall be equipped with a cover, seal or lid which is to be in a closed position at all times except when in actual use for tank gauging or sampling.

**II. Operational Restrictions**

None

## III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. These records shall be kept for the life of this emission source.

2. The permittee shall maintain records of the following information.

   a. The types of petroleum liquids stored in the tank.

   b. The maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

## IV. Reporting Requirements

1. This emissions unit is subject to the applicable provisions of Subpart Kb of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60. The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

   Pursuant to 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

   a. construction date (no later than 30 days after such date);

   b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);

   c. actual start-up date (within 15 days after such date); and,

   d. date of performance testing (if required, at least 30 days prior to testing).

   Reports are to be sent to:

   Ohio Environmental Protection Agency
   DAPC - Permit Management Unit
   P. O. Box 163669
   Columbus, Ohio 43216-3669

   and

Ohio Environmental Protection Agency
Southeast District Office
Division of Air Pollution Control
2195 Front Street

## V. Testing Requirements

1. Emissions Limitation:
   0.03 TPY VOC

   Compliance Method:
   Compliance shall be determined by a one time calculation using the TANKS Program 4.0 or other method acceptable to the Ohio EPA Southeast District Office.

## VI. Miscellaneous Requirements

None

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| T101 - 40000 gallon No. 2 Fuel Oil Storage Tank with submerged fill. | None | None |

**2. Additional Terms and Conditions**

**2.a** None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| T102 - 40000 gallon No. 2 Fuel Oil Storage Tank with submerged fill. | OAC rule 3745-31-05(A)(3) | The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part 60 Subpart Kb.<br><br>Emissions of volatile organic compounds (VOC) shall not exceed 0.03 TPY. |
| | OAC rule 3745-21-09(L) | See I.2 and III.2 |
| | 40 CFR 60.116b (a) and (b) | See III.1 below |

**2. Additional Terms and Conditions**

**2.a** The fixed roof storage tank shall be equipped with an internal floating roof.

**2.b** The automatic bleeder vents shall be closed at all times except when the roof is floated off or landed on the roof leg supports, and the rim vents, if provided, shall be set to open when the roof is being floated off the roof leg supports or is at the manufacturer's recommended setting.

**2.c** All openings, except stub drains, shall be equipped with a cover, seal or lid which is to be in a closed position at all times except when in actual use for tank gauging or sampling.

**II. Operational Restrictions**

Emissions Unit ID: T102

None

## III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. These records shall be kept for the life of this emission source.

2. The permittee shall maintain records of the following information.

   a. The types of petroleum liquids stored in the tank.

   b. The maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

## IV. Reporting Requirements

1. This emissions unit is subject to the applicable provisions of Subpart Kb of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60. The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

   Pursuant to 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

   a. construction date (no later than 30 days after such date);

   b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);

   c. actual start-up date (within 15 days after such date); and,

   d. date of performance testing (if required, at least 30 days prior to testing).

   Reports are to be sent to:

   Ohio Environmental Protection Agency
   DAPC - Permit Management Unit
   P. O. Box 163669
   Columbus, Ohio 43216-3669

   and

Ohio Environmental Protection Agency
Southeast District Office
Division of Air Pollution Control
2195 Front Street

## V. Testing Requirements

1. Emissions Limitation:
   0.03 TPY VOC

   Compliance Method:
   Compliance shall be determined by a one time calculation using the TANKS Program 4.0 or other method acceptable to the Ohio EPA Southeast District Office.

## VI. Miscellaneous Requirements

None

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| T102 - 40000 gallon No. 2 Fuel Oil Storage Tank with submerged fill. | None | None |

**2. Additional Terms and Conditions**

**2.a** None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| T103 - 40000 gallon No. 2 Fuel Oil Storage Tank with submerged fill. | OAC rule 3745-31-05(A)(3) | The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part 60 Subpart Kb.<br><br>Emissions of volatile organic compounds (VOC) shall not exceed 0.03 TPY. |
| | OAC rule 3745-21-09(L) | See I.2 and III.2 |
| | 40 CFR 60.116b (a) and (b) | See III.1 below |

**2. Additional Terms and Conditions**

**2.a** The fixed roof storage tank shall be equipped with an internal floating roof.

**2.b** The automatic bleeder vents shall be closed at all times except when the roof is floated off or landed on the roof leg supports, and the rim vents, if provided, shall be set to open when the roof is being floated off the roof leg supports or is at the manufacturer's recommended setting.

**2.c** All openings, except stub drains, shall be equipped with a cover, seal or lid which is to be in a closed position at all times except when in actual use for tank gauging or sampling.

**II. Operational Restrictions**

None

## III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. These records shall be kept for the life of this emission source.

2. The permittee shall maintain records of the following information.

   a. The types of petroleum liquids stored in the tank.

   b. The maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

## IV. Reporting Requirements

1. This emissions unit is subject to the applicable provisions of Subpart Kb of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60. The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

   Pursuant to 40 CFR Part 60.7, the permittee is hereby advised of the requirement to report the following at the appropriate times:

   a. construction date (no later than 30 days after such date);

   b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);

   c. actual start-up date (within 15 days after such date); and,

   d. date of performance testing (if required, at least 30 days prior to testing).

   Reports are to be sent to:

   Ohio Environmental Protection Agency
   DAPC - Permit Management Unit
   P. O. Box 163669
   Columbus, Ohio 43216-3669

   and

Ohio Environmental Protection Agency
Southeast District Office
Division of Air Pollution Control
2195 Front Street

## V. Testing Requirements

1. Emissions Limitation:
   0.03 TPY VOC

   Compliance Method:
   Compliance shall be determined by a one time calculation using the TANKS Program 4.0 or other method acceptable to the Ohio EPA Southeast District Office.

## VI. Miscellaneous Requirements

None

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| T103 - 40000 gallon No. 2 Fuel Oil Storage Tank with submerged fill. | None | None |

**2. Additional Terms and Conditions**

**2.a** None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

**NEW SOURCE REVIEW FORM B**

PTI Number: 06-06462 Facility ID: 0666000050

FACILITY NAME Portsmouth Gaseous Diffusion Plant/Bechtel Jacobs

FACILITY DESCRIPTION Two 79 MMBtu per hour no 2 fuel oil fired boilers and one 70 MMBtu per hour no 2 fuel oil fired boiler. CITY/TWP Piketon

SIC CODE 4953 SCC CODE 1-02-005-02/03 EMISSIONS UNIT ID B007

EMISSIONS UNIT DESCRIPTION 79 MMBtu per hour no 2 fuel oil fired boiler.

DATE INSTALLED 6/2001

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

| Pollutants | Air Quality Description | Actual Emissions Rate | | PTI Allowable | |
|---|---|---|---|---|---|
| | | Short Term Rate | Tons Per Year | Short Term Rate | Tons Per Year |
| Particulate Matter | attainment | 0.395 lb/hr | 1.7 | 1.58 lb/hr | 6.92 |
| $PM_{10}$ | attainment | | | | |
| Sulfur Dioxide | attainment | 39.5 lb/hr | 173.0 | 39.5 lb/hr | 173.0 |
| Organic Compounds | attainment | 0.79 lb/hr | 3.46 | 0.79 lb/hr | 3.46 |
| Nitrogen Oxides | attainment | 15.65 lb/hr | 68.55 | 15.65 lb/hr | 68.55 |
| Carbon Monoxide | attainment | 3.16 lb/hr | 13.8 | 3.16 lb/hr | 13.8 |
| Lead | attainment | | | | |
| Other: Air Toxics | attainment | | | | |

APPLICABLE FEDERAL RULES:

NSPS? Dc NESHAP? PSD? SynMn OFFSET POLICY?

| WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION? |
|---|
| **Enter Determination** Low NOx Burners |

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? $ not specified

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES x NO

IDENTIFY THE AIR CONTAMINANTS: _____

**NEW SOURCE REVIEW FORM B**

PTI Number: 06-06462 Facility ID: 0666000050

FACILITY NAME Portsmouth Gaseous Diffusion Plant/Bechtel Jacobs

FACILITY DESCRIPTION Two 79 MMBtu per hour no 2 fuel oil fired CITY/TWP Piketon

Emissions Unit ID: T103

SIC CODE 4953 SCC CODE 1-02-005-02/03 EMISSIONS UNIT ID B008

EMISSIONS UNIT DESCRIPTION 79 MMBtu per hour no 2 fuel oil fired boiler.

DATE INSTALLED 6/2001

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

| Pollutants | Air Quality Description | Actual Emissions Rate | | PTI Allowable | |
|---|---|---|---|---|---|
| | | Short Term Rate | Tons Per Year | Short Term Rate | Tons Per Year |
| Particulate Matter | attainment | 0.395 lb/hr | 1.7 | 1.58 lb/hr | 6.92 |
| $PM_{10}$ | attainment | | | | |
| Sulfur Dioxide | attainment | 39.5 lb/hr | 173.0 | 39.5 lb/hr | 173.0 |
| Organic Compounds | attainment | 0.79 lb/hr | 3.46 | 0.79 lb/hr | 3.46 |
| Nitrogen Oxides | attainment | 15.65 lb/hr | 68.55 | 15.65 lb/hr | 68.55 |
| Carbon Monoxide | attainment | 3.16 lb/hr | 13.8 | 3.16 lb/hr | 13.8 |
| Lead | attainment | | | | |
| Other: Air Toxics | attainment | | | | |

APPLICABLE FEDERAL RULES:

NSPS? Dc NESHAP? PSD? SynMn OFFSET POLICY?

| WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION? |
|---|
| **Enter Determination** Low NOx Burners |

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? $ not specified

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES x NO

IDENTIFY THE AIR CONTAMINANTS: _____

**NEW SOURCE REVIEW FORM B**

PTI Number: 06-06462 Facility ID: 0666000050

FACILITY NAME Portsmouth Gaseous Diffusion Plant/Bechtel Jacobs

FACILITY DESCRIPTION Two 79 MMBtu per hour no 2 fuel oil fired CITY/TWP Piketon

Emissions Unit ID: T103

SIC CODE 4953 SCC CODE 1-02-005-02/03 EMISSIONS UNIT ID B009

EMISSIONS UNIT DESCRIPTION 70 MMBtu per hour no 2 fuel oil fired boiler.

DATE INSTALLED 6/2001

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

| Pollutants | Air Quality Description | Actual Emissions Rate | | PTI Allowable | |
|---|---|---|---|---|---|
| | | Short Term Rate | Tons Per Year | Short Term Rate | Tons Per Year |
| Particulate Matter | attainment | 0.352 lb/hr | 1.54 | 1.41 lb/hr | 6.17 |
| $PM_{10}$ | attainment | | | | |
| Sulfur Dioxide | attainment | 35.2 lb/hr | 154.2 | 35.2 lb/hr | 154.2 |
| Organic Compounds | attainment | 0.704 lb/hr | 3.08 | 0.704 lb/hr | 3.08 |
| Nitrogen Oxides | attainment | 14.06 lb/hr | 61.7 | 14.06 lb/hr | 61.7 |
| Carbon Monoxide | attainment | 2.82 lb/hr | 12.4 | 2.82 lb/hr | 12.4 |
| Lead | attainment | | | | |
| Other: Air Toxics | attainment | | | | |

APPLICABLE FEDERAL RULES:

NSPS? Dc NESHAP? PSD? Syn.Mn. OFFSET POLICY?

| WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION? |
|---|
| **Enter Determination** Low NOx Burners |

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? $ not specified

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES x NO

IDENTIFY THE AIR CONTAMINANTS: _____

**NEW SOURCE REVIEW FORM B**

PTI Number: 06-06462 Facility ID: 0666000050

FACILITY NAME Portsmouth Gaseous Diffusion Plant/Bechtel Jacobs

FACILITY DESCRIPTION Two 79 MMBtu per hour no 2 fuel oil fired CITY/TWP Piketon

Emissions Unit ID: T103

SIC CODE 4953 SCC CODE 40400413, 414 EMISSIONS UNIT ID T101

EMISSIONS UNIT DESCRIPTION 40000 gallon no 2 fuel oil storage tank. with submerged fill

DATE INSTALLED 6/2001

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

| Pollutants | Air Quality Description | Actual Emissions Rate | | PTI Allowable | |
|---|---|---|---|---|---|
| | | Short Term Rate | Tons Per Year | Short Term Rate | Tons Per Year |
| Particulate Matter | attainment | | | | |
| $PM_{10}$ | attainment | | | | |
| Sulfur Dioxide | attainment | | | | |
| Organic Compounds | attainment | na | 0.03 | na | 0.03 |
| Nitrogen Oxides | attainment | | | | |
| Carbon Monoxide | attainment | | | | |
| Lead | attainment | | | | |
| Other: Air Toxics | attainment | | | | |

APPLICABLE FEDERAL RULES:

NSPS? Kb NESHAP? PSD? OFFSET POLICY?

| WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION? |
|---|
| **Enter Determination** Submerged fill |

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? $ not specified

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES x NO

IDENTIFY THE AIR CONTAMINANTS: _____

**NEW SC**
PTI Num
FACILIT

Emissions Unit ID: T103

FACILITY DESCRIPTION Two 79 MMBtu per hour no 2 fuel oil fired boilers and one 70 MMBtu per hour no 2 fuel oil fired boiler. CITY/TWP Piketon

SIC CODE 4953 SCC CODE 40400413, 414 EMISSIONS UNIT ID T102

EMISSIONS UNIT DESCRIPTION 40000 gallon no 2 fuel oil storage tank. with submerged fill

DATE INSTALLED 6/2001

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

| Pollutants | Air Quality Description | Actual Emissions Rate | | PTI Allowable | |
|---|---|---|---|---|---|
| | | Short Term Rate | Tons Per Year | Short Term Rate | Tons Per Year |
| Particulate Matter | attainment | | | | |
| $PM_{10}$ | attainment | | | | |
| Sulfur Dioxide | attainment | | | | |
| Organic Compounds | attainment | na | 0.03 | na | 0.03 |
| Nitrogen Oxides | attainment | | | | |
| Carbon Monoxide | attainment | | | | |
| Lead | attainment | | | | |
| Other: Air Toxics | attainment | | | | |

APPLICABLE FEDERAL RULES:

NSPS? Kb NESHAP? PSD? OFFSET POLICY?

| WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION? |
|---|
| **Enter Determination** Submerged fill |

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? $ not specified

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES x NO

IDENTIFY THE AIR CONTAMINANTS: _____

# NEW SOURCE REVIEW FORM B

PTI Number: 06-06462 Facility ID: 0666000050

FACILITY NAME Portsmouth Gaseous Diffusion Plant/Bechtel Jacobs

FACILITY DESCRIPTION Two 79 MMBtu per hour no 2 fuel oil fired CITY/TWP Piketon

Emissions Unit ID: T103

SIC CODE 4953 SCC CODE 40400413, 414 EMISSIONS UNIT ID T103

EMISSIONS UNIT DESCRIPTION 40000 gallon no 2 fuel oil storage tank. with submerged fill

DATE INSTALLED 6/2001

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

| Pollutants | Air Quality Description | Actual Emissions Rate | | PTI Allowable | |
|---|---|---|---|---|---|
| | | Short Term Rate | Tons Per Year | Short Term Rate | Tons Per Year |
| Particulate Matter | attainment | | | | |
| $PM_{10}$ | attainment | | | | |
| Sulfur Dioxide | attainment | | | | |
| Organic Compounds | attainment | na | 0.03 | na | 0.03 |
| Nitrogen Oxides | attainment | | | | |
| Carbon Monoxide | attainment | | | | |
| Lead | attainment | | | | |
| Other: Air Toxics | attainment | | | | |

APPLICABLE FEDERAL RULES:

NSPS? Kb NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

**Enter Determination** Submerged fill

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? $ not specified

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES x NO

IDENTIFY THE AIR CONTAMINANTS: _____