



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
WASHINGTON COUNTY**

**CERTIFIED MAIL**

Street Address:

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov.  
Center

**Application No: 06-06115**

**DATE: 5/10/00**

Muskingum River Plant  
Michael Robida  
American Electric Power 1 Riverside Plaza  
Columbus, OH 43215

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

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.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

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

CC: USEPA

SEDO



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install**

**Issue Date: 5/10/00**

**FINAL PERMIT TO INSTALL 06-06115**

Application Number: 06-06115  
APS Premise Number: 0684000000  
Permit Fee: **\$1000**  
Name of Facility: Muskingum River Plant  
Person to Contact: Michael Robida  
Address: American Electric Power 1 Riverside Plaza  
Columbus, OH 43215

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**4 mi. NW of Waterford on CR #32**  
**Waterford, Ohio**

Description of proposed emissions unit(s):  
**60 Inch Enclosed Conveyor Belt for Units 1-4.**

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

## Part I - GENERAL TERMS AND CONDITIONS

### 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 emission limitations, operational restrictions, and control device operating parameter limitations, 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.

## **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 are inadequate 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 prove to be inadequate 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. 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.

**10. 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.

**11. 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**

<u>Pollutant</u>	<u>Tons Per Year</u>
Particulate	5.4

**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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F002 - 60 Inch Enclosed Conveyor Belt for Units 1-4.	OAC Rule 3745-31-05	visible particulate emissions shall not exceed 20% opacity, as a 3-minute average.
		reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Section A.I.2.b)
	OAC Rule 3745-17-07 (B) (b)	Same as requirements in 3745-31-05
	OAC Rule 3745-17-08(B), (B)(6)	Same as requirements in 3745-31-05
	40CFR, Part 60 Subpart Y	Less stringent than requirements in 3745-31-05

**2. Additional Terms and Conditions**

- 2.a The coal conveyor that is covered by this permit and subject to the requirements of OAC rule 3745-31-05 is listed below:

New conveyor serving Units 1-4 coal pile.

- 2.b The permittee shall employ reasonably available control measures on the coal conveyor,

for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to use adequate enclosures to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

**II. Operational Restrictions**

None

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

1. Except as otherwise provided in this section the permittee shall perform inspections of such coal conveyor in accordance with the following frequencies:

coal conveyor identification	minimum inspection frequency
all conveyors	once per day when in use

2. The above-mentioned inspections shall be performed during representative, normal operating conditions.

3. The permittee may, upon receipt of written approval from the Ohio EPA, Southeast District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements. Such modified inspection frequencies would not be considered a minor or significant modification that would be subject to the Title V permit modification requirements in paragraphs (C)(1) and (C)(3) of OAC rule 3745-77-08.

4. The permittee shall maintain records of the following information:

- a. the date and reason any required inspection was not performed;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;

- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented.

The information in 4.d shall be kept updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

#### **IV. Reporting Requirements**

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency; and
  - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

#### **V. Testing Requirements**

1. Compliance with the emission limitations for the coal conveyors identified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.\*

\*The procedures related to Test Method 9 reflect the settlement agreement reached between Ohio EPA and the Ohio Electric Utilities concerning the Utilities' appeal to the Ohio Environmental Review Appeals Commission of the 1991 revisions and additions to OAC Chapter 3745-17. The revised rule containing these procedures was adopted by the Director of Ohio EPA in December, 1997. The USEPA and the Ohio Electric Utilities have agreed to consider the procedures as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of the procedures as a revision to the Ohio SIP for particulate matter.

#### **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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F002 - 60 Inch Enclosed Conveyor Belt for Units 1-4.	None	None

**2. Additional Terms and Conditions**

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: 06-06115 Facility ID: 0684000000

FACILITY NAME Muskingum River Plant

FACILITY DESCRIPTION 60 Inch Enclosed Conveyor Belt for Units 1-4. CITY/TWP Waterford

SIC CODE 4911 SCC CODE 3-05-010-11 EMISSIONS UNIT ID F002

EMISSIONS UNIT DESCRIPTION 60 Inch Enclosed Conveyor Belt for Units 1-4.

DATE INSTALLED June 2000

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	Pounds per hour	1.2	.24	1.2	5.4
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? **Subpart Y** PSD? OFFSET POLICY?

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

Enter Determination Partial enclosure for conveyor belt

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No  
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

**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: Particulates

**NEW SOURCE REVIEW FORM B**

PTI Number: 06-06115 Facility ID: 0684000000

FACILITY NAME Muskingum River Plant

FACILITY DESCRIPTION 60 Inch Enclosed Conveyor Belt for Units 1-4. CITY/TWP Waterford

**PTI REVIEW CHECKLIST**

**PTI # 06 - 06115**

**SEDO USE ONLY**

APP. COMPLETE: 3 /1/00

- 1. PTI Checklist
- 2. ERFs

- 3. Terms & Conditions/Form B
- 4. Additional EU Info (PTI tracker)

- 5. Completeness letter
- 6. Facility Allowable Total Emissions

- 7. Updated FRPA (if PTO rec'd)
- 8. Updated source file folders

**CALCULATIONS**

**ALL EMISSIONS UNITS**

- Uncontrolled hourly (max hourly in absence of controls)
- Uncontrolled annual (uncontrolled hourly x 8760)
- Actual hourly (max hourly after controls)
- Actual annual (actual hourly x actual hours)
- Allowable hourly (hourly limit allowed in T&Cs)
- Allowable annual (allowable hourly x 8760)

**SYNTHETIC MINOR or FESOP**

- Restricted hourly (including enforceable synthetic minor operational limits)
- Restricted annual (including enforceable synthetic minor operational limits)

**APPLICABLE RULES - For BAT: explain on Form B; cite SIP rule, NSPS, MACT, etc.**

YES NO

- Title V - potential (max PTE @ 8760)
- Title V - actual
- FESOP (see OAC 3745-35-07)
- MACT - Listed category: \_\_\_\_\_
- HAP emissions > threshold
- 112g - Title V for HAP, but no MACT issued
- NESHAP
- NSPS - Listed category: Subpart Y
- Affected facility(ies): Conveyor Belt
- Exemptions: \_\_\_\_\_
- Nonattainment area
- PSD/OFFSETS - potential (unc. max with fed enf control @ 8760)
- PSD/OFFSETS - actual
- Netting to avoid PSD/OFFSETS
- Synthetic Minor to avoid PSD/OFFSETS
- Modeling required

TITLE V  
100 tpy criteria pollutant  
10 tpy single HAP  
25 tpy total HAP

NONATTAINMENT  
Coshocton: SO<sub>2</sub>  
Gallia: SO<sub>2</sub>

PSD/OFFSETS APPLICABILITY  
Existing facility >250 tpy allowable, or  
>100 tpy if facility one of 28 listed categories  
THRESHOLDS - TPY

CO: 100  
NOx: 40  
SO<sub>2</sub>: 40  
TSP: 25  
PM<sub>10</sub>: 15  
VOC: 40  
Pb: 0.6  
Hg: 0.1  
Be: 0.0004  
F: 3.0

Asbestos: 0.007  
Vinyl Chloride: 1.0  
H<sub>2</sub>SO<sub>4</sub> Mist: 7.0  
H<sub>2</sub>S: 10.0  
MODELING THRESHOLDS - TPY  
Total Reduced S: 10.0  
CO: 100  
NOx: 25  
SO<sub>2</sub>: 25  
PM<sub>10</sub>: 10  
Pb: 0.6  
Hg: 0.1  
Be: 0.0004  
F: 3.0  
Toxics: 1.0  
Asbestos: 0.007  
Vinyl Chloride: 1.0  
H<sub>2</sub>SO<sub>4</sub> Mist: 7.0  
H<sub>2</sub>S: 10.0  
Total Reduced S: 10.0

**NEW SOURCE REVIEW FORM B**

PTI Number: 06-06115 Facility ID: 0684000000

FACILITY NAME Muskingum River Plant

FACILITY DESCRIPTION	CITY/TWP
60 Inch Enclosed Conveyor Belt for Units 1-4.	Waterford

Air Toxics Policy - pollutant(s): \_\_\_\_\_

**TERMS AND CONDITIONS**

All applicable rules listed, including exemptions

All SIP rules cited (as applicable: 17-07, 17-08, 17-11, 18, 21-07, 21-09, 23, 75)

Compliance determination and M, R, Rp for all limits, additional T&Cs and ORs

Short term limit, except tanks, roads, storage piles, material handling

TPY limit in applicable rules table

Adequate T&Cs to support all applicable rules checked above

PTO template #: Power Plant Why not/Changes: \_\_\_\_\_

**NEW SOURCE REVIEW FORM B**

PTI Number: 06-06115

Facility ID: 0684000000

FACILITY NAME Muskingum River Plant

FACILITY DESCRIPTION 60 Inch Enclosed Conveyor Belt for Units 1-4. CITY/TWP Waterford

**ENGINEERING REVIEW FORM**

1. **Facility name:** Muskingum River Plant
2. **Permit application number:** 06-06115
3. **Source description:** Coal Conveyor Belt
4. **Year source installed/modified:** 2000
5. **Maximum rate (show units):** 3000 Ton Per Hour
6. **Emission rates:**

<i>Pollutant</i>	<i>PSD/Ohio tpy</i>	<i>Total facility allowable tpy</i>	<i>Uncontrolled, #/hr</i>	<i>Uncontrolled, tpy</i>	<i>Actual #/hr</i>	<i>Actual tpy</i>	<i>Allowable #/hr</i>	<i>Allowable tpy</i>
<i>Particulate matter</i>	--/--		4.2	18.4	1.26	1.84	1.26	5.4
<i>PM<sub>10</sub></i>	15/10							
<i>SO<sub>2</sub></i>	40/25							
<i>NO<sub>x</sub></i>	40/25							
<i>CO</i>	100/100							
<i>VOC / OC</i>	40/--							
<i>Toxics/HAPs</i>	--/1.0							

7.  **PSD Major facility (see below)**       **NSPS, Subpart: Y**       **MACT, Subpart:**  
**Contemporaneous increases (allowable, last 2 yrs): PM: \_\_\_ SO<sub>2</sub>: \_\_\_ NO<sub>x</sub>: \_\_\_ CO: \_\_\_ VOC: \_\_\_**

8. **Identify regulation(s) governing this source and describe pertinent requirements and exemptions.**

9. **Control Strategy:** Enclosures

10. **CALCULATIONS:**  
**Uncontrolled:**

Attached

**Allowable:****Actual:****HAP emissions (max.): based on maximum HAP content and maximum coating usage****Toxics emissions: based on maximum toxics content and maximum coating usage**

11. **Comments:**

**NEW SOURCE REVIEW FORM B**

PTI Number: 06-06115 Facility ID: 0684000000

FACILITY NAME Muskingum River Plant

FACILITY DESCRIPTION 60 Inch Enclosed Conveyor Belt for Units 1-4. CITY/TWP Waterford

where:			where:		
k =	0.74	particle size multiplier for TSP	k =	0.74	particle size multiplier for TSP
U =	8.7	mean wind speed, mph (1.3-15)	U =	8.7	mean wind speed, mph (1.3-15)
M =	5	% moisture content, (0.25 - 4.8)	M =	5	% moisture content, (0.25 - 4.8)
EF =	0.0013489	pounds/ton	EF =	0.0013489	pounds/ton
	1	load-in		1	load-in
	0	load-out		0	load-out
	26280000	tons per year throughput		1184000	tons per year throughput
Uncontrolled:	17.724544	tons per year	Uncontrolled:	0.7985487	tons per year
	70	% control efficiency: watering		70	% control efficiency: watering
Controlled:	5.3173632	tons per year, controlled	Controlled:	0.2395646	tons per year, controlled

IF NOT INCLUDED IN OTHER ROADWAY PERMITS, CALCULATE ADDITIONAL TRAFFIC EMISSIONS BELOW

Roadways Potential to Emit  
from AP-42, 13.2.2.2 (Sept. 1998)

UNPAVED ROADWAYS

VEHICLE TYPE:		VEHICLE TYPE:	
VMT =	0 miles/yr	VMT =	0 miles/yr
EF =	$k \cdot 5.9 \cdot (s/12) \cdot (S/30) \cdot (W/3)^{0.7} \cdot (w/4)^{0.5} \cdot ((365-p)/365)$	EF =	$k \cdot 5.9 \cdot (s/12) \cdot (S/30) \cdot (W/3)^{0.7} \cdot (w/4)^{0.5} \cdot ((365-p)/365)$
where:	units (acceptable range)	where:	units (acceptable range)
k =	1 particle size multiplier: TSP=1; PM10=0.36	k =	1 particle size multiplier: TSP=1; PM10=0.36
s =	8.9 % silt content unpaved roads (4.3 - 20)	s =	8.9 % silt content unpaved roads (4.3 - 20)
p =	145 days of rain > or = 0.01 inches (135 - 150)	p =	145 days of rain > or = 0.01 inches (135 - 150)
S =	10 miles/hr vehicle speed (13 - 40)	S =	10 miles/hr vehicle speed (13 - 40)
W =	20 tons average vehicle weight (3 - 157)	W =	20 tons average vehicle weight (3 - 157)
w =	10 wheels (4 - 13)	w =	10 wheels (4 - 13)
EF =	5.25 lb/mile	EF =	5.25 lb/mile
	75 % efficiency of controls		75 % efficiency of controls
ER =	0.00 tons/yr	ER =	0.00 tons/yr

**SUMMARY - POTENTIAL**

Unpaved roadway emissions : 0 TPY  
 Load-in/load-out emissions = 5.317363 TPY  
 Total emissions = 5.317363 TPY

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**NEW SOURCE REVIEW FORM B**

PTI Number: 06-06115

Facility ID: 0684000000

FACILITY NAME Muskingum River Plant

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FACILITY DESCRIPTION	60 Inch Enclosed Conveyor Belt for Units	CITY/TWP	Waterford
	1-4.		

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**NEW SOURCE REVIEW FORM B**

PTI Number: 06-06115 Facility ID: 0684000000

FACILITY NAME Muskingum River Plant

FACILITY DESCRIPTION 60 Inch Enclosed Conveyor Belt for Units 1-4. CITY/TWP Waterford

**Please describe any hard copy information is being submitted with this recommendation (Please send hard copy information to Pam McGraner, DAPC Central Office - Air Quality Modeling and Planning):**

NONE

**Please provide any additional permit specific notes as you deem necessary:**

NONE

**Permit To Install Synthetic Minor Write-Up**

NONE

**Please fill in the following for this permit:**

**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
Particulate	5.4