



State of Ohio Environmental Protection Agency

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

CERTIFIED MAIL

Street Address:

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

Mailing Address:

Lazarus Gov.
Center

Application No: 03-13645

DATE: 8/7/2001

National Electric Carbon Products, Inc.
David Curlis
200 North Town Street
Fostoria, OH 44830

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

NWDO



Permit To Install

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Terms and Conditions

FINAL PERMIT TO INSTALL 03-13645

Application Number: 03-13645
APS Premise Number: 0374010109
Permit Fee: **\$2800**
Name of Facility: National Electric Carbon Products, Inc.
Person to Contact: David Curlis
Address: 200 North Town Street
Fostoria, OH 44830

Location of proposed air contaminant source(s) [emissions unit(s)]:
200 North Town Street
Fostoria, Ohio

Description of proposed emissions unit(s):
To be determined by county engineer.

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.10 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**

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	0.676
SO ₂	32.9
CO	1.75

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National Electric Carbon Products, Inc.

PTI Application: **03-13645**

Issued: 8/7/2001

Facility ID: **0374010109**

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Nation

PTI A₁

Issued: 8/7/2001

Emissions Unit ID: P106

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>
P106 - Vertical shaft calciner with afterburner (Modification to PTI #03-10897 issued on October 29, 1997) Modification to increase allowable emissions	OAC rule 3745-31-05(A)	0.0054 lb PE/hr, 0.016 TPY PE
		8.0 lbs SO ₂ /hr, 24.0 TPY SO ₂
		Control Requirements (see A.I.2.a)
	OAC rule 3745-17-07(A)	20% opacity, as a 6-minute average, except as provided by rule
	OAC rule 3745-17-11(B)(1)	See A.I.2.b
	OAC rule 3745-18-06(E)	See A.I.2.c

2. Additional Terms and Conditions

- 2.a The "Best Available Technology" (BAT) requirement for this emissions unit has been determined to be the use of an afterburner.
- 2.b The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.c This emissions unit is exempt from the emissions limitations specified in OAC rule 3745-18-06(E), pursuant to OAC rule 3745-18-06(C), because the rated capacity of this emissions unit is less than 1000 pounds per hour process weight input.

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Nation

PTI A₁

Issued: 8/7/2001

Emissions Unit ID: P106

II. Operational Restrictions

1. The combustion temperature within the afterburner shall be a minimum of 2000 degrees Fahrenheit when the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the afterburner when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. All periods of time during which the combustion temperature within the afterburner, when the emissions unit was in operation, was less than 2000 degrees Fahrenheit.
- b. A log of the downtime for the capture (collection) system, control device and monitoring equipment when the associated emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify the following:
 - a. all periods of time during which the combustion temperature within the afterburner did not comply with the temperature limitation specified above; and
 - b. a log of the downtime for the capture (collection) system, control device and monitoring equipment when this emissions unit was in operation.

The deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation: 0.0054 lb PE/hr, 0.016 TPY PE

Applicable Compliance Method: The permittee shall demonstrate compliance by applying a control efficiency of 99% for use of an afterburner to an emission factor of 0.54 lb PE/hr (based on stack testing of a similar emission unit). If required, compliance with the hourly PE emissions limitation shall be based on stack testing using the methods and

Issued

Emissions Unit ID: P106

procedures specified in Method 5 of 40 CFR, Part 60, Appendix A.

The TPY limitation was established by multiplying the lb/hr limitation by a maximum operating schedule of 6000 hrs/yr and then dividing by ton/2000 lbs. Therefore, provided compliance is shown with the lb/hr limitation, compliance shall be shown for the TPY limitation.

- b. Emission Limitation: 8.0 lbs SO₂/hr, 24.0 TPY SO₂

Applicable Compliance Method: The permittee shall demonstrate compliance by multiplying a maximum process weight rate of 400 lbs/hr, a maximum sulfur loss rate of 1% (established by laboratory analysis) and a factor of 2 (molecular weight of sulfur dioxide/molecular weight of sulfur). If required, compliance with the hourly SO₂ emissions limitation shall be based on stack testing using the methods and procedures specified in Method 6 of 40 CFR, Part 60, Appendix A.

The TPY limitation was established by multiplying the lb/hr limitation by a maximum operating schedule of 6000 hrs/yr and then dividing by ton/2000 lbs. Therefore, provided compliance is shown with the lb/hr limitation, compliance shall be shown for the TPY limitation.

- c. Emission Limitation: 20% opacity, as a 6-minute average, except as provided by rule

Applicable Compliance Method: If required, compliance shall be determined by visible emissions evaluations using the methods and procedures specified in OAC 3745-17-03(B)(1).

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>
P106 - Vertical shaft calciner with afterburner (Modification to PTI #03-10897 issued on October 29, 1997)	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

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Nation

PTI A₁

Issued: 8/7/2001

Emissions Unit ID: P106

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>
P162 - Electric induction graphitizing bake furnace (70 inch)	OAC rule 3745-31-05(A)	0.36 lb PE/hr, 0.24 TPY PE
		5.28 lbs SO ₂ /hr, 3.56 TPY SO ₂
		1.04 lbs CO/hr, 0.70 TPY CO
	OAC rule 3745-17-07(A)	20% opacity, as a 6-minute average, except as provided by rule
	OAC rule 3745-17-11(B)(1)	See A.I.2.a
	OAC rule 3745-18-06(E)	See A.I.2.a

2. Additional Terms and Conditions

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

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

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National Electric Carbon Products, Inc.

PTI Application: **02 12615**

Issued

Facility ID: **0374010109**

Emissions Unit ID: P162

IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitations in section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitation: 0.36 lb PE/hr, 0.24 TPY PE

Applicable Compliance Method: The permittee shall demonstrate compliance by the use of an emission factor of 0.36 lb PE/hr (based on stack testing of a similar emissions unit). If required, compliance with the hourly PE emissions limitation shall be based on stack testing using the methods and procedures specified in Method 5 of 40 CFR, Part 60, Appendix A.

The TPY limitation was established by multiplying the lb/hr limitation by a maximum operating schedule of 1350 hrs/yr and then dividing by ton/2000 lbs. Therefore, provided compliance is shown with the lb/hr limitation, compliance shall be shown for the TPY limitation.

- b. Emission Limitation: 5.28 lbs SO₂/hr, 3.56 TPY SO₂

Applicable Compliance Method: The permittee shall demonstrate compliance by multiplying a maximum sulfur usage rate of 8 lbs/hr, a maximum sulfur loss rate of 33% (established by laboratory analysis) and a factor of 2 (molecular weight of sulfur dioxide/molecular weight of sulfur). If required, compliance with the hourly SO₂ emissions limitation shall be based on stack testing using the methods and procedures specified in Method 6 of 40 CFR, Part 60, Appendix A.

The TPY limitation was established by multiplying the lb/hr limitation by a maximum operating schedule of 1350 hrs/yr and then dividing by ton/2000 lbs. Therefore, provided compliance is shown with the lb/hr limitation, compliance shall be shown for the TPY limitation.

- c. Emission Limitation: 1.04 lbs CO/hr, 0.70 TPY CO

Applicable Compliance Method: The permittee shall demonstrate compliance by use of an emission factor of 1.04 lbs CO/hr (based on stack testing of a similar emissions unit). If required, compliance with the hourly CO emissions limitation shall be based on stack testing using the methods and procedures specified in Method 10 of 40 CFR, Part 60, Appendix A.

The TPY limitation was established by multiplying the lb/hr limitation by a maximum operating schedule of 1350 hrs/yr and then dividing by ton/2000 lbs. Therefore, provided compliance is shown with the lb/hr limitation, compliance shall be shown for the TPY limitation.

- d. Emission Limitation: 20% opacity, as a 6-minute average, except as provided by rule

Applicable Compliance Method: If required, compliance shall be determined by visible emissions evaluations using the methods and procedures specified in OAC 3745-17-03(B)(1).

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>
P162 - Electric induction graphitizing bake furnace (70 inch)	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

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National Electric Carbon Products, Inc.

PTI Application: **02 12645**

Issued

Facility ID: **0374010109**

Emissions Unit ID: P162

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>
P163 - Electric induction graphitizing bake furnace (70 inch)	OAC rule 3745-31-05(A)	0.36 lb PE/hr, 0.24 TPY PE
		5.28 lbs SO ₂ /hr, 3.56 TPY SO ₂
		1.04 lbs CO/hr, 0.70 TPY CO
	OAC rule 3745-17-07(A)	20% opacity, as a 6-minute average, except as provided by rule
	OAC rule 3745-17-11(B)(1)	See A.I.2.a
	OAC rule 3745-18-06(E)	See A.I.2.a

2. **Additional Terms and Conditions**

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

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

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Nation

PTI A₁

Issued: 8/7/2001

Emissions Unit ID: P163

IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitations in section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Applicable Compliance Method: The permittee shall demonstrate compliance by the use of an emission factor of 0.36 lb PE/hr (based on stack testing of a similiar emissions unit) If required, compliance with the hourly PE emissions limitation shall be based on stack testing using the methods and procedures specified in Method 5 of 40 CFR, Part 60, Appendix A.

The TPY limitation was established by multiplying the lb/hr limitation by a maximum operating schedule of 1350 hrs/yr and then dividing by ton/2000 lbs. Therefore, provided compliance is shown with the lb/hr limitation, compliance shall be shown for the TPY limitation.

- b. Emission Limitation: 5.28 lbs SO₂/hr, 3.56 TPY SO₂

Applicable Compliance Method: The permittee shall demonstrate compliance by multiplying a maximum sulfur usage rate of 8 lbs/hr, a maximum sulfur loss rate of 33% (established by laboratory analysis) and a factor of 2 (molecular weight of sulfur dioxide/molecular weight of sulfur). If required, compliance with the hourly SO₂ emissions limitation shall be based on stack testing using the methods and procedures specified in Method 6 of 40 CFR, Part 60, Appendix A.

The TPY limitation was established by multiplying the lb/hr limitation by a maximum operating schedule of 1350 hrs/yr and then dividing by ton/2000 lbs. Therefore, provided compliance is shown with the lb/hr limitation, compliance shall be shown for the TPY limitation.

- c. Emission Limitation: 1.04 lbs CO/hr, 0.70 TPY CO

Applicable Compliance Method: The permittee shall demonstrate compliance by use of an emission factor of 1.04 lbs CO/hr (based on stack testing of a similiar emissions unit). If required, compliance with the hourly CO emissions limitation shall be based on stack testing using the methods and procedures specified in Method 10 of 40 CFR, Part 60, Appendix A.

The TPY limitation was established by multiplying the lb/hr limitation by a maximum

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operating schedule of 1350 hrs/yr and then dividing by ton/2000 lbs. Therefore, provided compliance is shown with the lb/hr limitation, compliance shall be shown for the TPY limitation.

- d. Emission Limitation: 20% opacity, as a 6-minute average, except as provided by rule

Applicable Compliance Method: If required, compliance shall be determined by visible emissions evaluations using the methods and procedures specified in OAC 3745-17-03(B)(1).

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>
P163 - Electric induction graphitizing bake furnace (70 inch)	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

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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>
P164 - Electric induction graphitizing bake furnace (50 inch)	OAC rule 3745-31-05(A)	0.18 lb PE/hr, 0.12 TPY PE 2.64 lbs SO ₂ /hr, 1.78 TPY SO ₂ 0.52 lb CO/hr, 0.35 TPY CO
	OAC rule 3745-17-07(A)	20% opacity, as a 6-minute average, except as provided by rule
	OAC rule 3745-17-11(B)(1)	See A.I.2.a
	OAC rule 3745-18-06(E)	See A.I.2.a

2. Additional Terms and Conditions

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

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

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IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitations in section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitation: 0.18 lb PE/hr, 0.12 TPY PE

Applicable Compliance Method: The permittee shall demonstrate compliance by use of an emission factor of 0.18 lb PE/hr (based on stack testing of a similar emissions unit). If required, compliance with the hourly PE emissions limitation shall be based on stack testing using the methods and procedures specified in Method 5 of 40 CFR, Part 60, Appendix A.

The TPY limitation was established by multiplying the lb/hr limitation by a maximum operating schedule of 1350 hrs/yr and then dividing by ton/2000 lbs. Therefore, provided compliance is shown with the lb/hr limitation, compliance shall be shown for the TPY limitation.

- b. Emission Limitation: 2.64 lbs SO₂/hr, 1.78 TPY SO₂

Applicable Compliance Method: The permittee shall demonstrate compliance by multiplying a maximum sulfur usage rate of 4 lbs/hr, a maximum sulfur loss rate 33%, and a factor of 2 (molecular weight of sulfur dioxide/molecular weight of sulfur). If required, compliance with the hourly SO₂ emissions limitation shall be based on stack testing using the methods and procedures specified in Method 6 of 40 CFR, Part 60, Appendix A.

The TPY limitation was established by multiplying the lb/hr limitation by a maximum operating schedule of 1350 hrs/yr and then dividing by ton/2000 lbs. Therefore, provided compliance is shown with the lb/hr limitation, compliance shall be shown for the TPY limitation.

- c. Emission Limitation: 0.52 lb CO/hr, 0.35 TPY CO

Applicable Compliance Method: The permittee shall demonstrate compliance by use of an emission factor of 0.52 lbs/hr (based on stack testing of a similar unit). If required, compliance with the hourly CO emissions limitation shall be based on stack testing using the methods and procedures specified in Method 10 of 40 CFR, Part 60, Appendix A.

The TPY limitation was established by multiplying the lb/hr limitation by a maximum

National Electric Carbon Products, Inc.

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Issued

Facility ID: **0374010109**

Emissions Unit ID: P164

operating schedule of 1350 hrs/yr and then dividing by ton/2000 lbs. Therefore, provided compliance is shown with the lb/hr limitation, compliance shall be shown for the TPY limitation.

- d. Emission Limitation: 20% opacity, as a 6-minute average, except as provided by rule

Applicable Compliance Method: If required, compliance shall be determined by visible emissions evaluations using the methods and procedures specified in OAC 3745-17-03(B)(1).

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>
P164 - Electric induction graphitizing bake furnace (50 inch)	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: 03-13645 Facility ID: 0374010109

FACILITY NAME National Electric Carbon Products, Inc.

FACILITY DESCRIPTION Carbon and Graphite Products CITY/TWP Fostoria

SIC CODE 3624 SCC CODE 3-05-150-02 EMISSIONS UNIT ID P106

EMISSIONS UNIT DESCRIPTION Vertical shaft calciner with afterburner

DATE INSTALLED 1/92

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	0.0054	0.016	0.0054	0.016
PM ₁₀					
Sulfur Dioxide	Attainment	8.0	24.0	8.0	24.0
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

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

The use of an afterburner and compliance with the terms and conditions of the permit.

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: _____

NEW SOURCE REVIEW FORM B

PTI Number: 03-13645 Facility ID: 0374010109

FACILITY NAME National Electric Carbon Products, Inc.

FACILITY DESCRIPTION Carbon and Graphite Products CITY/TWP Fostoria

Emissions Unit ID: P164

SIC CODE 3624 SCC CODE 3-05-150-02 EMISSIONS UNIT ID P162

EMISSIONS UNIT DESCRIPTION Electric induction graphitizing bake furnace (70 inch)

DATE INSTALLED 6/01

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	0.36	0.24	0.36	0.24
PM ₁₀					
Sulfur Dioxide	Attainment	5.28	3.56	5.28	3.56
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide	Attainment	1.04	0.70	1.04	0.70
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

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

Compliance with the terms and conditions of this permit.

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 containinants 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

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FACILITY

Emissions Unit ID: P164

FACILITY DESCRIPTION Carbon and Graphite Products CITY/TWP Fostoria

SIC CODE 3624 SCC CODE 3-05-150-02 EMISSIONS UNIT ID P163

EMISSIONS UNIT DESCRIPTION Electric induction graphitizing bake furnace (70 inch)

DATE INSTALLED 6/01

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	0.36	0.24	0.36	0.24
PM ₁₀					
Sulfur Dioxide	Attainment	5.28	3.56	5.28	3.56
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide	Attainment	1.04	0.70	1.04	0.70
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? _____ NESHAP? _____ PSD? _____ OFFSET POLICY? _____

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

Compliance with the terms and conditions of this permit.

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: _____

NEW SOURCE REVIEW FORM B

PTI Number: 03-13645 Facility ID: 0374010109

FACILITY NAME National Electric Carbon Products, Inc.

FACILITY DESCRIPTION Carbon and Graphite Products CITY/TWP Fostoria

Emissions Unit ID: P164

SIC CODE 3624 SCC CODE 3-05-150-02 EMISSIONS UNIT ID P164

EMISSIONS UNIT DESCRIPTION Electric induction graphitizing bake furnace (50 inch)

DATE INSTALLED 6/01

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	0.18	0.12	0.18	0.12
PM ₁₀					
Sulfur Dioxide	Attainment	2.64	1.78	2.64	1.78
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide	Attainment	0.52	0.35	0.52	0.35
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

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

Compliance with the terms and conditions of this permit.

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 containinants 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: