



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

DEC 14 PM 12:33

12/05/06

CERTIFIED MAIL

RE: Final Chapter 3745-35 Permit To Operate

**B005 (N.G. Boiler #5) 50 MMBtu/hr Natural Gas
Fired Boiler**

Chillicothe Correctional Institution (06-71-01-0104)
Drew Hildrebrand
Chillicothe Correctional Institute
15802 State Route 104N
Chillicothe, OH 45601-0990

Dear Drew Hildrebrand:

The enclosed Permit(s) to Operate allow you to operate the described emissions unit(s) in the manner indicated in the Permit(s). Because each permit contains several terms and conditions, I urge you to read them 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 Compliance Assistance and Pollution Prevention at (800) 329-7518. For more information related to air pollution control in Ohio, visit www.epa.state.oh/dapc.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

If you have any questions, please contact Southeast District Office.

Sincerely,

Michael W. Ahern
Permit Issuance and Data Management Section
Division of Air Pollution Control

cc: Southeast District Office



State of Ohio Environmental Protection Agency

Final Permit To Operate An Emissions Unit

Effective Date: 12/05/06

Expiration Date: 12/05/11

This document constitutes issuance to:

Facility ID: 06-71-01-0104
Chillicothe Correctional Institution
Chillicothe Correctional Institute
15802 State Route 104N
Chillicothe, OH 45601-0990

of a permit to operate for:

B005 (N.G. Boiler #5)
50 MMBtu/hr Natural Gas Fired Boiler

You will be contacted six months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency identified below. This permit and the authorization to operate the air contaminant source (emissions unit) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC Chapter 3745-35 and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the Ohio EPA District Office or local air agency that is responsible for processing and administering your permit:

Southeast District Office
2195 Front Street
Logan, OH 43138
(740) 385-8501

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

A handwritten signature in cursive script that reads "Joseph P. Koncelik".

Joseph P. Koncelik
Director

Part I: General Terms and Conditions

1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

2. Permit to Install Requirement

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

3. 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 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 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.)

4. Records Retention Requirements

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 the permit. Such records may be maintained in computerized form.

5. Inspections and Information Requests

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

compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

6. Scheduled Maintenance/Malfunction Reporting

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

7. Permit Transfers

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

8. 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.

9. Permit Renewal

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the following Ohio EPA District Office or local air agency which has jurisdiction in the area in which the facility is located:

Southeast District Office
2195 Front Street
Logan, OH 43138
(740) 385-8501

It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

Part II: Special Terms and Conditions

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Boiler #5 - 50 MMBtu Natural Gas Boiler with #2 Fuel Oil back-up	OAC rule 3745-31-05(A)(3) PTI # 06-2166 Issued 10/13/1988	Particulate emissions (PE) shall not exceed 0.020 lb/mmBtu of actual heat input.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average.
	OAC rule 3745-17-10(B)(1)	The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(D)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-35-07(B).
	OAC rule 3745-21-08(B)	See section A.2.c below.
	OAC rule 3745-23-06(B)	See section A.2.b below.
	OAC rule 3745-35-07(B)	SO2 emissions shall not exceed 0.25 lb/mmBtu actual heat input, 12.5 lbs/hr and 1.88 TPY, while burning low sulfur fuel oil.
	40 CFR Part 60, Subpart Dc	This emissions unit shall not operate more than 300 hours per rolling, 12-month period, while burning No. 2 fuel oil. See section A.2.d below.

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of natural gas or No. 2 fuel oil, fuel sulfur content limitation in term B.1. below, and the emission limitations listed in term A.1. above.
- 2.b The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On February 15, 2005, OAC rule 3745-23-06 was rescinded; therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the U.S. EPA approves the revision, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2. Additional Terms and Conditions (continued)

- 2.c The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.d Construction commenced on this emissions unit prior to June 9, 1989, therefore Subpart Dc is not applicable.

B. Operational Restrictions

1. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.
2. The quality of No. 2 fuel oil received for burning in this emissions unit shall have a combination of sulfur content and heat content sufficient to comply with the allowable sulfur dioxide emission limitation of 0.25 lb/mmBtu of actual heat input. The sulfur content for all No. 2 fuel oil burned in this emissions unit shall be of less than or equal to 0.25 weight per cent sulfur.
3. This emissions unit shall not operate more than 300 hours per rolling, 12-month period, while burning No. 2 fuel oil. The permittee shall comply with this limitation upon issuance of this permit through the use of past operating records.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

1.a Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lb/mmBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)]. A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

1.b Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lb/mmBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)].

- 1.c The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.
2. The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day.

C. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall maintain monthly records of the following information:
 - a. The total volume of natural gas (million cubic feet) burned in this emissions unit;
 - b. the total number of gallons of No. 2 fuel oil used in this boiler for each month;
 - c. the total number of hours of operation while using No. 2 fuel oil for each month;
 - d. the rolling, 12-month summation of the hours of operation while using No. 2 fuel oil.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or no. 2 fuel oil was burned in the emissions unit. These reports shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports that identify each day during which records were not maintained on the amount of natural gas or No. 2 fuel oil combusted in the emission unit. These reports shall be submitted within 30 days after the deviation occurs.
3. The permittee shall notify the Ohio EPA, Southeast District Office, in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section C.1. above. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Southeast District Office within 30 days after the deviation occurs.
4. The permittee shall submit deviation (excursion) reports which identify any exceedances of the rolling, 12-month hours of operation limitation, while burning No. 2 fuel oil. (All exceedances of the maximum allowable cumulative hours of operation while burning No.2 fuel oil limitation as required in Section B.3.) These reports shall be submitted within 30 days after the exceedance of the hourly restriction occurs.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation:
PE shall not exceed 0.020 lb/mmBtu of actual heat input.

Compliance Method:
Compliance shall be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (50 mmBtu/hour) by 0.0056 lb PE per mmBtu natural gas burned (emissions factor from AP-42, 5th Ed., July 1998, Chapter 1.4.1, "Natural Gas Combustion," Table 1.4-2).
If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5.
 - 1.b Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average.

Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
 - 1.c Emission Limitation:
SO₂ emissions shall not exceed 0.25 lb/mmBtu actual heat input, 12.5 lbs/hr and 1.88 TPY while burning low sulfur fuel oil.

Compliance Method:
Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum hourly fuel oil burning capacity of the emissions unit (288 gal/hr) by 142 lbs(S)/1000 gal. of fuel oil burned = 12.5 lbs/hr (S = 0.25, the sulfur content of the fuel. Emission factor from AP-42, 5th Ed., September 1998, Chapter 1.3, "Fuel Oil Combustion," Table 1.3-1). Sulfur expressed in lb/mmBtu is determined by dividing 50 mmBtu (the maximum Btu output of the boiler using No. 2 fuel oil) by 12.5 lbs/hr = 0.25 lb/MMBTU. Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation (300 hours) is maintained.

E. Testing Requirements (continued)

1.d Operational Restriction:

This emissions unit shall not operate more than 300 hours per rolling, 12-month period, while burning No. 2 fuel oil.

Compliance Method:

Compliance shall be demonstrated by the Monitoring and Record Keeping requirements in section C.

F. Miscellaneous Requirements

None



State of Ohio Environmental Protection Agency

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Mailing Address:

Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

2006 DEC 14 PM 12:33

12/05/06

CERTIFIED MAIL

RE: Final Chapter 3745-35 Permit To Operate

B013 (Boiler #6) Natural Gas Boiler #6

Chillicothe Correctional Institution (06-71-01-0104)
Drew Hildrebrand
Chillicothe Correctional Institute
15802 State Route 104N
Chillicothe, OH 45601-0990

Dear Drew Hildrebrand:

The enclosed Permit(s) to Operate allow you to operate the described emissions unit(s) in the manner indicated in the Permit(s). Because each permit contains several terms and conditions, I urge you to read them 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 Compliance Assistance and Pollution Prevention at (800) 329-7518. For more information related to air pollution control in Ohio, visit www.epa.state.oh/dapc.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

If you have any questions, please contact Southeast District Office.

Sincerely,

Michael W. Ahern
Permit Issuance and Data Management Section
Division of Air Pollution Control

cc: Southeast District Office



State of Ohio Environmental Protection Agency

Final Permit To Operate An Emissions Unit

Effective Date: 12/05/06

Expiration Date: 12/05/11

This document constitutes issuance to:

Facility ID: 06-71-01-0104
Chillicothe Correctional Institution
Chillicothe Correctional Institute
15802 State Route 104N
Chillicothe, OH 45601-0990

of a permit to operate for:

B013 (Boiler #6)
Natural Gas Boiler #6

You will be contacted six months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency identified below. This permit and the authorization to operate the air contaminant source (emissions unit) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC Chapter 3745-35 and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the Ohio EPA District Office or local air agency that is responsible for processing and administering your permit:

Southeast District Office
2195 Front Street
Logan, OH 43138
(740) 385-8501

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

A handwritten signature in black ink, appearing to read "Joseph P. Koncelik". The signature is written in a cursive, flowing style.

Joseph P. Koncelik
Director

Part I: General Terms and Conditions

1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

2. Permit to Install Requirement

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

3. 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 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 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.)

4. Records Retention Requirements

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 the permit. Such records may be maintained in computerized form.

5. Inspections and Information Requests

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

to determine whether a request exists for modifying, reopening or renewing this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

6. Scheduled Maintenance/Malfunction Reporting

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

7. Permit Transfers

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

8. 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.

9. Permit Renewal

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the following Ohio EPA District Office or local air agency which has jurisdiction in the area in which the facility is located:

Southeast District Office
2195 Front Street
Logan, OH 43138
(740) 385-8501

It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

Part II: Special Terms and Conditions

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Boiler #6 - 44.09 MMBtu Natural Gas Boiler with #2 Fuel Oil back-up	OAC rule 3745-31-05(A)(3) PTI # 06-07031 Issued 2/27/2003	Particulate emissions (PE) shall not exceed 0.08 lb/hr, and 0.35 TPY while burning natural gas; 0.6 lb/hr, while burning low sulfur fuel oil.
		Nitrogen oxide (NOx) emissions shall not exceed 0.04 lb/mmBtu actual heat input, 1.77 lbs/hr, and 7.8 TPY while burning natural gas; 0.20 lb/mmBtu actual heat input, and 8.06 lbs/hr, while burning low sulfur fuel oil.
		Carbon monoxide (CO) emissions shall not exceed 0.04 lb/mmBtu actual heat input, 1.77 lbs/hr, and 7.8 TPY while burning natural gas; 0.155 lb/mmBtu actual heat input, and 6.25 lbs/hr, while burning low sulfur fuel oil.
		Sulfur dioxide (SO2) emissions shall not exceed 0.03 lb/hr, and 0.13 TPY while burning natural gas; 0.25 lb/mmBtu actual heat input, and 10.18 lbs/hr while burning low sulfur fuel oil.
	OAC rule 3745-17-10(B)(1) OAC rule 3745-18-06(D)	The emission limitation specified by these rules are less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-08(B)	See section A.2.e below.
	OAC rule 3745-23-06(B)	See section A.2.d below.

**Operations, Property,
and/or Equipment**

**Applicable Rules/
Requirements**

**Applicable Emissions
Limitations/Control
Measures**

OAC rule 3745-35-07(B)

NOx emissions shall not exceed 1.21 TPY;
CO emissions shall not exceed 0.94 TPY;
PE shall not exceed 0.1 TPY; and
SO2 emissions shall not exceed 1.53 TPY from low sulfur fuel oil.

This emissions unit shall not operate more than 300 hours per rolling, 12-month period, using No. 2 fuel oil.

40 CFR Part 60 Subpart Dc

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity, while burning number 2 fuel oil; and the SO2 emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-07(A)(1)

Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, while burning natural gas.

2. Additional Terms and Conditions

- 2.a** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of natural gas or No. 2 fuel oil, fuel sulfur content limitation, and the emission limitations listed in term A.1. above.
- 2.b** The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency (U.S. EPA), 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency (Ohio EPA).
- 2.c** The lb/mmBtu actual heat input and tons per year emission limitations, established under OAC rule 3745-31-05(A)(3), are based on the emissions unit's potentials to emit. Therefore, no monitoring, record keeping, and reporting requirements are necessary to ensure ongoing compliance with these emission limitations.
- 2.d** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On February 15, 2005, OAC rule 3745-23-06 was rescinded; therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the U.S. EPA approves the revision, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2. Additional Terms and Conditions (continued)

- 2.e The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3).

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revisions occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

B. Operational Restrictions

1. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.
2. The quality of No. 2 fuel oil received for burning in this emissions unit shall have a combination of sulfur content and heat content sufficient to comply with the allowable sulfur dioxide emission limitation of 0.25 lb/mmBtu of actual heat input and the sulfur content limitation for No. 2 fuel oil of less than or equal to 0.25 weight per cent sulfur.
3. This emissions unit shall not operate more than 300 hours per rolling, 12-month period, while burning No. 2 fuel oil. The permittee shall comply with this limitation upon issuance of this permit through the use of past operating records.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

1.a Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lb/mmBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)]. A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

1.b Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lb/mmBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)].

- 1.c The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.
2. The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day.

I. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall maintain monthly records of the following information:
 - a. The total volume of natural gas (million cubic feet) burned in this emissions unit;
 - b. the total number of gallons of No. 2 fuel oil used in this boiler for each month;
 - c. the total number of hours of operation while using No. 2 fuel oil for each month; and
 - d. the rolling, 12-month summation of the hours of operation while using No. 2 fuel oil.

J. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or no. 2 fuel oil was burned in the emissions unit. These reports shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports that identify each day during which records were not maintained on the amount of natural gas or No. 2 fuel oil combusted in the emission unit. These reports shall be submitted within 30 days after the deviation occurs.
3. The permittee shall notify the Ohio EPA, Southeast District Office, in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section C.1. above. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Southeast District Office within 30 days after the deviation occurs.
4. The permittee shall submit deviation (excursion) reports which identify any exceedances of the rolling, 12-month hours of operation limitation, while burning No. 2 fuel oil. (All exceedances of the maximum allowable cumulative hours of operation while burning No.2 fuel oil limitation as required in Section B.3.) These reports shall be submitted within 30 days after the exceedance of the hourly restriction occurs.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation:
Particulate emissions (PE) shall not exceed 0.08 lb/hr, and 0.35 TPY while burning natural gas.

Compliance Method:
Compliance shall be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (44.09 MMBTU/hour) by 0.0018 lb PE per mmBtu natural gas burned (emissions factor from AP-42, 5th Ed., July 1998, Chapter 1.4.1, "Natural Gas Combustion," Table 1.4-2).
If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5.
 - 1.b Emission Limitation:
Nitrogen oxide (NOx) emissions shall not exceed 0.04 lb/mmBtu actual heat input, 1.77 lbs/hr, and 7.8 TPY while burning natural gas.

Compliance Method:
Compliance with the lb/mmBtu and lbs/hr emission limitations was demonstrated during startup testing conducted 12/16/2003. Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000).

E. Testing Requirements (continued)

- 1.c Emission Limitation:**
Carbon Monoxide (CO) emissions shall not exceed 0.04 lb/mmBtu actual heat input, 1.77 lbs/hr, and 7.8 TPY while burning natural gas.

Compliance Method:

Compliance with the lb/mmBtu and lbs/hr emission limitations was demonstrated during startup testing conducted 12/16/2003. Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000).

- 1.d Emission Limitation:**
Sulfur dioxide (SO₂) emissions shall not exceed 0.03 lb/hr, and 0.13 TPY while burning natural gas.

Compliance Method:

Compliance shall be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (44.09 MMBTU/hour) by 0.0006 lb SO₂ per mmBtu natural gas burned (emissions factor from AP-42, 5th Ed., July 1998, Chapter 1.4.1, "Natural Gas Combustion," Table 1.4-2). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6C. Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1- 4, and 6.

- 1.e Emission Limitation:**
Visible particulate emissions from the boiler stack shall not exceed 20% opacity as a six-minute average, while burning natural gas.

Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- 1.f Emission Limitation:**
PE shall not exceed 0.6 lb/hr and 0.1 TPY while burning low sulfur fuel oil.

Compliance Method:

Compliance shall be determined by multiplying the maximum hourly fuel oil burning capacity of the emissions unit (288 gal/hr) by 2 lbs/1000 gal. of fuel oil burned = 0.576 lb/hr (emission factor from AP-42, 5th Ed., September 1998, Chapter 1.3, "Fuel Oil Combustion," Table 1.3-1).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5. Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation (300 hours) is maintained.

- 1.g Emission Limitation:**
NO_x emissions shall not exceed 0.20 lb/MMBTU actual heat input, 8.06 lbs/hr, and 1.21 TPY while burning low sulfur fuel oil.

Compliance Method:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the manufacturer' emission factor of 0.20 lb/MMBTU by 40.32 MMBTU (the maximum Btu output of the boiler using No. 2 fuel oil) to arrive at the lbs/hr. Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation (300 hours) is maintained.

I. Testing Requirements (continued)

- 1.h** Emission Limitation:
CO emissions shall not exceed 0.155 lb/MMBTU actual heat input, 6.25 lbs/hr, and 0.94 TPY while burning low sulfur fuel oil.

Compliance Method:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the manufacturer' emission factor of 0.155 lb/MMBTU by 40.32 MMBTU (the maximum Btu output of the boiler using No. 2 fuel oil) to arrive at the lbs/hr. Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation (300 hours) is maintained.

- 1.i** Emission Limitation:
SO₂ emissions shall not exceed 0.25 lb/MMBTU actual heat input, 10.22 lbs/hr, and 1.53 TPY while burning low sulfur fuel oil.

Compliance Method:

Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum hourly fuel oil burning capacity of the emissions unit (288 gal/hr) by 142 lbs(S)/1000 gal. of fuel oil burned = 10.22 lbs/hr (S = 0.25, the sulfur content of the fuel. Emission factor from AP-42, 5th Ed., September 1998, Chapter 1.3, "Fuel Oil Combustion," Table 1.3-1). Sulfur expressed in lb/MMBTU is determined by dividing 40.32 MMBTU (the maximum Btu output of the boiler using No. 2 fuel oil) by 10.22 lbs/hr = 0.25 lb/MMBTU. Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation (300 hours) is maintained.

- 1.j** Operational Restriction:
This emissions unit shall not operate more than 300 hours per rolling, 12-month period, while burning No. 2 fuel oil.

Compliance Method:

Compliance shall be demonstrated by the Monitoring and Record Keeping requirements in section C.

- 1.k** Emission Limitation:
Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity, while burning number 2 fuel oil.

Compliance Method:

If at any time fuel oil #2 is to be used in B013 and B014 the permittee also shall conduct, or have conducted, at the time of use or within 2 months of the use of this fuel, emission testing for one boiler, to represent emissions of both boilers burning fuel oil in this permit. The testing shall be performed to satisfy the performance testing requirements of NSPS subpart Dc for fuel oil. Opacity shall be tested in accordance with 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

None



State of Ohio Environmental Protection Agency **EPA**

Street Address:

Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

DEC 14 PM 12:33

12/05/06

CERTIFIED MAIL
RE: Final Chapter 3745-35 Permit To Operate

B014 (Boiler #7) Natural Gas Boiler #7

Chillicothe Correctional Institution (06-71-01-0104)
Drew Hildrebrand
Chillicothe Correctional Institute
15802 State Route 104N
Chillicothe, OH 45601-0990

Dear Drew Hildrebrand:

The enclosed Permit(s) to Operate allow you to operate the described emissions unit(s) in the manner indicated in the Permit(s). Because each permit contains several terms and conditions, I urge you to read them 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 Compliance Assistance and Pollution Prevention at (800) 329-7518. For more information related to air pollution control in Ohio, visit www.epa.state.oh/dapc.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

If you have any questions, please contact Southeast District Office.

Sincerely,

Michael W. Ahern
Permit Issuance and Data Management Section
Division of Air Pollution Control

cc: Southeast District Office



State of Ohio Environmental Protection Agency

Final Permit To Operate An Emissions Unit

Effective Date: 12/05/06

Expiration Date: 12/05/11

This document constitutes issuance to:

Facility ID: 06-71-01-0104
Chillicothe Correctional Institution
Chillicothe Correctional Institute
15802 State Route 104N
Chillicothe, OH 45601-0990

of a permit to operate for:

B014 (Boiler #7)
Natural Gas Boiler #7

You will be contacted six months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency identified below. This permit and the authorization to operate the air contaminant source (emissions unit) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC Chapter 3745-35 and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the Ohio EPA District Office or local air agency that is responsible for processing and administering your permit:

Southeast District Office
2195 Front Street
Logan, OH 43138
(740) 385-8501

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

A handwritten signature in black ink, reading "Joseph P. Koncelik". The signature is written in a cursive style with a large, prominent "J" and "K".

Joseph P. Koncelik
Director

Part I: General Terms and Conditions

1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

2. Permit to Install Requirement

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

3. 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 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 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.)

4. Records Retention Requirements

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 the permit. Such records may be maintained in computerized form.

5. Inspections and Information Requests

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

to determine whether cause exists for modifying, reopening or reissuing this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

6. Scheduled Maintenance/Malfunction Reporting

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

7. Permit Transfers

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

8. 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.

9. Permit Renewal

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the following Ohio EPA District Office or local air agency which has jurisdiction in the area in which the facility is located:

Southeast District Office
2195 Front Street
Logan, OH 43138
(740) 385-8501

It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

Part II: Special Terms and Conditions

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Boiler #7 - 44.09 MMBtu Natural Gas Boiler with #2 Fuel Oil back-up	OAC rule 3745-31-05(A)(3) PTI # 06-07031 Issued 2/27/2003	Particulate emissions (PE) shall not exceed 0.08 lb/hr, and 0.35 TPY while burning natural gas; 0.6 lb/hr, while burning low sulfur fuel oil.
		Nitrogen oxide (NOx) emissions shall not exceed 0.04 lb/mmBtu actual heat input, 1.77 lbs/hr, and 7.8 TPY while burning natural gas; 0.20 lb/mmBtu actual heat input, and 8.06 lbs/hr, while burning low sulfur fuel oil.
		Carbon monoxide (CO) emissions shall not exceed 0.04 lb/mmBtu actual heat input, 1.77 lbs/hr, and 7.8 TPY while burning natural gas; 0.155 lb/mmBtu actual heat input, and 6.25 lbs/hr, while burning low sulfur fuel oil.
		Sulfur dioxide (SO2) emissions shall not exceed 0.03 lb/hr, and 0.13 TPY while burning natural gas; 0.25 lb/mmBtu actual heat input, and 10.18 lbs/hr while burning low sulfur fuel oil.
	OAC rule 3745-17-10(B)(1) OAC rule 3745-18-06(D)	The emission limitation specified by these rules are less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-08(B)	See section A.2.e below.
	OAC rule 3745-23-06(B)	See section A.2.d below.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-35-07(B)	NOx emissions shall not exceed 1.21 TPY; CO emissions shall not exceed 0.94 TPY; PE shall not exceed 0.1 TPY; and SO2 emissions shall not exceed 1.53 TPY from low sulfur fuel oil.
	40 CFR Part 60 Subpart Dc	This emissions unit shall not operate more than 300 hours per rolling, 12-month period, using No. 2 fuel oil.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity, while burning number 2 fuel oil; and the SO2 emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, while burning natural gas.

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of natural gas or No. 2 fuel oil, fuel sulfur content limitation, and the emission limitations listed in term A.1. above.
- 2.b The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency (U.S. EPA), 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency (Ohio EPA).
- 2.c The lb/mmBtu actual heat input and tons per year emission limitations, established under OAC rule 3745-31-05(A)(3), are based on the emissions unit's potentials to emit. Therefore, no monitoring, record keeping, and reporting requirements are necessary to ensure ongoing compliance with these emission limitations.
- 2.d The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On February 15, 2005, OAC rule 3745-23-06 was rescinded; therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the U.S. EPA approves the revision, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2. Additional Terms and Conditions (continued)

- 2.e The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3).

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revisions occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

B. Operational Restrictions

1. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.
2. The quality of No. 2 fuel oil received for burning in this emissions unit shall have a combination of sulfur content and heat content sufficient to comply with the allowable sulfur dioxide emission limitation of 0.25 lb/mmBtu of actual heat input and the sulfur content limitation for No. 2 fuel oil of less than or equal to 0.25 weight per cent sulfur.
3. This emissions unit shall not operate more than 300 hours per rolling, 12-month period, while burning No. 2 fuel oil. The permittee shall comply with this limitation upon issuance of this permit through the use of past operating records.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

1.a Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lb/mmBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)]. A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

1.b Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lb/mmBtu). [The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)].

- 1.c The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.
2. The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day.

C. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall maintain monthly records of the following information:
 - a. The total volume of natural gas (million cubic feet) burned in this emissions unit;
 - b. the total number of gallons of No. 2 fuel oil used in this boiler for each month;
 - c. the total number of hours of operation while using No. 2 fuel oil for each month; and
 - d. the rolling, 12-month summation of the hours of operation while using No. 2 fuel oil.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or no. 2 fuel oil was burned in the emissions unit. These reports shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports that identify each day during which records were not maintained on the amount of natural gas or No. 2 fuel oil combusted in the emission unit. These reports shall be submitted within 30 days after the deviation occurs.
3. The permittee shall notify the Ohio EPA, Southeast District Office, in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section C.1. above. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Southeast District Office within 30 days after the deviation occurs.
4. The permittee shall submit deviation (excursion) reports which identify any exceedances of the rolling, 12-month hours of operation limitation, while burning No. 2 fuel oil. (All exceedances of the maximum allowable cumulative hours of operation while burning No.2 fuel oil limitation as required in Section B.3.) These reports shall be submitted within 30 days after the exceedance of the hourly restriction occurs.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation:
Particulate emissions (PE) shall not exceed 0.08 lb/hr, and 0.35 TPY while burning natural gas.

Compliance Method:
Compliance shall be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (44.09 MMBTU/hour) by 0.0018 lb PE per mmBtu natural gas burned (emissions factor from AP-42, 5th Ed., July 1998, Chapter 1.4.1, "Natural Gas Combustion," Table 1.4-2).
If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5.
 - 1.b Emission Limitation:
Nitrogen oxide (NOx) emissions shall not exceed 0.04 lb/mmBtu actual heat input, 1.77 lbs/hr, and 7.8 TPY while burning natural gas.

Compliance Method:
Compliance with the lb/mmBtu and lbs/hr emission limitations was demonstrated during startup testing conducted 12/16/2003. Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000).

E. Testing Requirements (continued)

- 1.c** Emission Limitation:
Carbon Monoxide (CO) emissions shall not exceed 0.04 lb/mmBtu actual heat input, 1.77 lbs/hr, and 7.8 TPY while burning natural gas.
- Compliance Method:
Compliance with the lb/mmBtu and lbs/hr emission limitations was demonstrated during startup testing conducted 12/16/2003. Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000).
- 1.d** Emission Limitation:
Sulfur dioxide (SO₂) emissions shall not exceed 0.03 lb/hr, and 0.13 TPY while burning natural gas.
- Compliance Method:
Compliance shall be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (44.09 MMBTU/hour) by 0.0006 lb SO₂ per mmBtu natural gas burned (emissions factor from AP-42, 5th Ed., July 1998, Chapter 1.4.1, "Natural Gas Combustion," Table 1.4-2). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6C. Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000).
- If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1- 4, and 6.
- 1.e** Emission Limitation:
Visible particulate emissions from the boiler stack shall not exceed 20% opacity as a six-minute average, while burning natural gas.
- Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
- 1.f** Emission Limitation:
PE shall not exceed 0.6 lb/hr and 0.1 TPY while burning low sulfur fuel oil.
- Compliance Method:
Compliance shall be determined by multiplying the maximum hourly fuel oil burning capacity of the emissions unit (288 gal/hr) by 2 lbs/1000 gal. of fuel oil burned = 0.576 lb/hr (emission factor from AP-42, 5th Ed., September 1998, Chapter 1.3, "Fuel Oil Combustion," Table 1.3-1). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5. Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation (300 hours) is maintained.
- 1.g** Emission Limitation:
NO_x emissions shall not exceed 0.20 lb/MMBTU actual heat input, 8.06 lbs/hr, and 1.21 TPY while burning low sulfur fuel oil.
- Compliance Method:
Compliance with the lbs/hr emission limitation shall be determined by multiplying the manufacturer' emission factor of 0.20 lb/MMBTU by 40.32 MMBTU (the maximum Btu output of the boiler using No. 2 fuel oil) to arrive at the lbs/hr. Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation (300 hours) is maintained.

E. Testing Requirements (continued)

- 1.h Emission Limitation:**
CO emissions shall not exceed 0.155 lb/MMBTU actual heat input, 6.25 lbs/hr, and 0.94 TPY while burning low sulfur fuel oil.
- Compliance Method:**
Compliance with the lbs/hr emission limitation shall be determined by multiplying the manufacturer' emission factor of 0.155 lb/MMBTU by 40.32 MMBTU (the maximum Btu output of the boiler using No. 2 fuel oil) to arrive at the lbs/hr. Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation (300 hours) is maintained.
- 1.i Emission Limitation:**
SO₂ emissions shall not exceed 0.25 lb/MMBTU actual heat input, 10.22 lbs/hr, and 1.53 TPY while burning low sulfur fuel oil.
- Compliance Method:**
Compliance with the lbs/hr emission limitation shall be determined by multiplying the maximum hourly fuel oil burning capacity of the emissions unit (288 gal/hr) by 142 lbs(S)/1000 gal. of fuel oil burned = 10.22 lbs/hr (S = 0.25, the sulfur content of the fuel. Emission factor from AP-42, 5th Ed., September 1998, Chapter 1.3, "Fuel Oil Combustion," Table 1.3-1). Sulfur expressed in lb/MMBTU is determined by dividing 40.32 MMBTU (the maximum Btu output of the boiler using No. 2 fuel oil) by 10.22 lbs/hr = 0.25 lb/MMBTU. Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation (300 hours) is maintained.
- 1.j Operational Restriction:**
This emissions unit shall not operate more than 300 hours per rolling, 12-month period, while burning No. 2 fuel oil.
- Compliance Method:**
Compliance shall be demonstrated by the Monitoring and Record Keeping requirements in section C.
- 1.k Emission Limitation:**
Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity, while burning number 2 fuel oil.
- Compliance Method:**
If at any time fuel oil #2 is to be used in B013 and B014 the permittee also shall conduct, or have conducted, at the time of use or within 2 months of the use of this fuel, emission testing for one boiler, to represent emissions of both boilers burning fuel oil in this permit. The testing shall be performed to satisfy the performance testing requirements of NSPS subpart Dc for fuel oil. Opacity shall be tested in accordance with 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

None



State of Ohio Environmental Protection Agency, E P A.

Street Address:

Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

2006 DEC 14 PM 12:30

12/05/06

CERTIFIED MAIL
RE: Final Chapter 3745-35 Permit To Operate

**K001 (OPI Paint Shop) Ohio Penal Industries
Paint Shop (4 Booths installed 1980-1985)**

Chillicothe Correctional Institution (06-71-01-0104)
Drew Hildrebrand
Chillicothe Correctional Institute
15802 State Route 104N
Chillicothe, OH 45601-0990

Dear Drew Hildrebrand:

The enclosed Permit(s) to Operate allow you to operate the described emissions unit(s) in the manner indicated in the Permit(s). Because each permit contains several terms and conditions, I urge you to read them 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 Compliance Assistance and Pollution Prevention at (800) 329-7518. For more information related to air pollution control in Ohio, visit www.epa.state.oh/dapc.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

If you have any questions, please contact Southeast District Office.

Sincerely,

Michael W. Ahern
Permit Issuance and Data Management Section
Division of Air Pollution Control

cc: ~~Southeast District Office~~



State of Ohio Environmental Protection Agency

Final Permit To Operate An Emissions Unit

Effective Date: 12/05/06

Expiration Date: 12/05/11

This document constitutes issuance to:

Facility ID: 06-71-01-0104
Chillicothe Correctional Institution
Chillicothe Correctional Institute
15802 State Route 104N
Chillicothe, OH 45601-0990

of a permit to operate for:

K001 (OPI Paint Shop)
Ohio Penal Industries Paint Shop (4 Booths installed 1980-1985)

You will be contacted six months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency identified below. This permit and the authorization to operate the air contaminant source (emissions unit) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC Chapter 3745-35 and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the Ohio EPA District Office or local air agency that is responsible for processing and administering your permit:

Southeast District Office
2195 Front Street
Logan, OH 43138
(740) 385-8501

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

A handwritten signature in cursive script that reads "Joseph P. Koncelik".

Joseph P. Koncelik
Director

Part I: General Terms and Conditions

1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

2. Permit to Install Requirement

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

3. 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 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 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.)

4. Records Retention Requirements

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 the permit. Such records may be maintained in computerized form.

5. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State and federal air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director,

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

6. Scheduled Maintenance/Malfunction Reporting

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

7. Permit Transfers

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

8. 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.

9. Permit Renewal

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the following Ohio EPA District Office or local air agency which has jurisdiction in the area in which the facility is located:

Southeast District Office
2195 Front Street
Logan, OH 43138
(740) 385-8501

It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

Part II: Special Terms and Conditions

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Coating line for vehicle and component painting consisting of four spray booths.	OAC rule 3745-31-05(A)(3) PTI #06-4209 Issued Final 10/19/1994	Volatile organic compound (VOC) emissions shall not exceed 3.5 tpy on a rolling, 12-month basis.
	OAC rule 3745-21-09(U)	Exempt, see section A.2.a below.
	OAC rule 3745-17-11(B)(1)	Particulate emissions (PE) shall not exceed 0.551 lbs/hr.

2. Additional Terms and Conditions

- 2.a Pursuant to OAC 3745-21-09(U)(2)(e)(ii), this emissions unit is exempt from the requirements of OAC rule 3745-21-09(U) because maximum daily coating usage is restricted to 10 gallons of coating, as applied, per day.

B. Operational Restrictions

1. The permittee shall employ no more than 10 gallons of coating, as applied, per day in this emissions unit.
2. The permittee shall operate the particulate filter controls whenever this emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the coating line:
 - a. the name and identification number of each coating employed;
 - b. the volume, in gallons, of each coating employed; and
 - c. the total volume, in gallons, of all of coatings employed.
2. The permittee shall collect and record the following information on a monthly basis for the purpose of determining compliance with the rolling, 12-month VOC emission limit:
 - a. the name and identification of each coating and cleanup material employed;
 - b. the VOC content of each coating and cleanup material employed, in pounds per gallon;
 - c. the volume, in gallons, of each coating and cleanup material employed;
 - d. the total monthly VOC emissions from all coatings and cleanup materials employed, in pounds or tons, i.e., the sum of (C.2.b.)x(C.2.c) for each coating and cleanup material identified in section C.2.a; and
 - e. the rolling, 12-month total VOC emissions from all coatings and cleanup materials, in tons, i.e., the sum of the total monthly VOC emissions required in section C.2.d for the previous 12 months, inclusive (convert from pounds to tons by dividing "total monthly VOC emissions, in pounds" by "2000 lbs/ton," if necessary).

D. Reporting Requirements

1. The permittee shall notify the Ohio EPA Southeast District Office in writing of any daily record showing that the coating line has employed more than 10 gallons of coating, as applied. The notification shall include a copy of the records required in section C.1 and C.2 of these terms and conditions, and shall be sent to the Ohio EPA Southeast District Office within 30 days after the exceedance occurs.
2. The permittee shall notify the Ohio EPA Southeast District Office in writing of any monthly record showing that the rolling, 12-month VOC limitation has been exceeded, based on the record keeping requirements of section C.2. of these terms and conditions. The notification shall include a copy of such record(s) and shall be sent to the Ohio EPA Southeast District Office within 30 days after the exceedance occurs.
3. The permittee shall notify the Southeast District Office in writing of any daily record showing that the particulate filter controls were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Southeast District Office within 30 days after the event occurs.

E. Testing Requirements

1. Emission Limitation:

VOC emissions shall not exceed 3.5 tpy on a rolling, 12-month basis.

Compliance Method:

Compliance shall be based upon the record keeping requirements specified in section C.2. of these terms and conditions. Formulation data or Method 24 of 40 CFR Part 60, Appendix A, shall be used to determine the VOC contents of the coatings and cleanup materials.

2. Emission limitation :

PE shall not exceed 0.551 lbs/hr.

Compliance Method:

To determine the actual worst case particulate emission rate, the following equation shall be used:

$$PE = (M) * (1-TE) * (1-CE)$$

where:

PE = particulate matter emission rate (lb/hr),

M = maximum coating solids usage rate (5.4 lb/hr),

TE = transfer efficiency of coating equipment (ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, 0.65 for HVLP spray guns),

CE = control efficiency of the control equipment (90% for panel filters). If more than one piece of control equipment is used in series, the equation should be multiplied by additional (1-CE) terms for each additional piece of equipment.

F. Miscellaneous Requirements

None