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Facility Name: **Elkem Metals Company**

Application Number: **06-5471**

Date: **September 16, 1998**

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. 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.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCES

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

If the construction of the proposed source(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 Ohio Administrative Code (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

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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 applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

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.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

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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.

PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws and regulations.

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Elkem Metals Company** located in **Washington** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

Ohio
EPA
Source
Number

B004

B001

B001
Cont'd

B004
Cont'd

B002

B003

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
92.3 MMBTU/hour natural gas fired boiler	92.3 MMBTU/hour natural gas fired boiler	15.0 MMBTU/hour natural gas fired boiler	15.0 MMBTU/hour natural gas fired boiler	

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
		<p>BAT <u>Determination</u></p> <p>Low NO_x burners, flue gas recirculation, and low excess air firing (15 percent)</p>	<p>Low NO_x burners, flue gas recirculation, and low excess air firing (15 percent)</p>	<p>Low NO_x burners, flue gas recirculation, and low excess air firing (15 percent)</p>

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
	Applicable Federal & <u>OAC Rules</u>			3745-31-05
3745-31-05		3745-31-05	3745-31-05	
			3745-17-07	3745-17-07
3745-17-07		3745-17-07		
			3745-17-10 (B) (1)	3745-17-10 (B) (1)
3745-17-10 (B) (1)		3745-17-10 (B) (1)		
			40 CFR 60, Subpart Dc	40 CFR 60, Subpart Dc
40 CFR 60, Subpart Dc		40 CFR 60, Subpart Dc		

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
	of VOC	of NO _x		
Permit Allowable Mass Emissions and/or Control/Usage Requirements	20 percent opacity as a six minute average or as provided by rule	9.23 pounds/hour and 40.43 TPY of CO	20 percent opacity as a six minute average or as provided by rule	0.15 pound/hour and 0.7 TPY of VOC
0.01 pound/MBTU and 4.1 TPY PM	The requirements of this rule are less stringent than those developed through OAC rule 3745-31-05.	1.0 pound/hour and 4.1 TPY of VOC	The requirements of this rule are less stringent than those developed through OAC rule 3745-31-05.	20 percent opacity as a six minute average or as provided by rule
3.32 pounds/hour and 14.6 TPY of NO _x	The requirements of this rule are less stringent than those developed through OAC rule 3745-31-05.	20 percent opacity as a six minute average or as provided by rule	The requirements of this rule are less stringent than those developed through OAC rule 3745-31-05.	The requirements of this rule are less stringent than those developed through OAC rule 3745-31-05.
9.23 pounds/hour and 40.43 TPY of CO	The requirements of this rule are less stringent than those developed through OAC rule 3745-31-05.	The requirements of this rule are less stringent than those developed through OAC rule 3745-31-05.	The requirements of this rule are less stringent than those developed through OAC rule 3745-31-05.	The requirements of this rule are less stringent than those developed through OAC rule 3745-31-05.
1.0 pound/hour and 4.1 TPY	0.01 pound/MMBTU and 4.1 TPY PM	0.1 pound/hour and 0.44 TPY PM	0.1 pound/hour and 0.44 TPY of PM	
		0.55 pound/hour and 2.4 TPY of NO _x	0.55 pound/hour and 2.4 TPY of NO _x	
		1.5 pounds/hour and 6.6 TPY of CO		
	3.32 pounds/hour and 14.6 TPY	0.15 pound/hour and 0.7 TPY of VOC	1.5 pounds/hour and 6.6 TPY of CO	

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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SUMMARY
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
NO _x	34.0
PM	9.1
CO	88.1
VOC	9.6

CONSTRUCTION STATUS

The **Ohio EPA, Southeast District Office** shall be notified in writing as to (a) the construction starting date, (b) the construction completion date, and (c) the date the facilities were placed into operation for the following sources: **B004**.

NSPS REQUIREMENTS

The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
B001, B002, B003 and B004	Natural gas fired boilers	Dc

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

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less

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- than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
 - d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

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

and **Ohio EPA, Southeast District Office**
2195 Front Street
Logan, OH 43138

PERFORMANCE TEST REQUIREMENTS

The permittee shall conduct, or have conducted, performance testing on the air contaminant source(s) in accordance with procedures approved by the Agency. Two copies of the written report describing the test procedures followed and the results of such tests shall be submitted and signed by the person responsible for the test. The Director, or an Ohio EPA representative, shall be allowed to witness the test, examine testing equipment, and require the acquisition or submission of data and information necessary to assure that the source operation and testing procedures provide a valid characterization of the emissions from the source and/or the performance of the control equipment.

- A. A completed Intent to Test form shall be submitted to the appropriate Ohio EPA District Office or Local Air Pollution Control Agency where the original permit application was filed. This notice shall be made 30 days in advance and shall specify the source operating parameters, the proposed test procedures, and the time, date, place and person(s) conducting such tests.
- B. Two copies of the test results shall be submitted within 30 days after the completion of the performance test.
- C. Tests shall be performed for the following source(s) and pollutant(s):

Source

B001 and B002

Pollutant(s)

PM₁₀, NO_x, and CO

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RECORD(S) RETENTION AND AVAILABILITY

All records required by this Permit to Install shall be retained on file for a period of not less than three years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Ohio EPA, Southeast District Office, 2195 Front Street, Logan, OH 43138.**

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Ohio EPA, Southeast District Office, 2195 Front Street, Logan, OH 43138.**

Except as provided by OAC Rule 3745-15-06(A) (3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution

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sources.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

NINETY DAY OPERATING PERIOD

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

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.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

I. B001

A. Additional Terms and Conditions

1. The permittee shall burn only natural gas in emissions unit B001.

B. Monitoring and Recordkeeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in emission units B001.

C. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than

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natural gas was burned in emission units B001. Each report shall be submitted within 30 days after the deviation occurs.

D. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirement:
 - a. the emission testing shall be conducted within 90 days of start-up of the emissions unit, using the listed methods for the following pollutants: PM, NO_x, CO
2. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Southeast District Office's refusal to accept the results of the emission test(s).
3. Personnel from the Ohio EPA, Southeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
4. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Southeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Southeast District Office.

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a. Emission Limitation

0.01 lb/MMBTU of PM for B001

Applicable Compliance Method

Compliance shall be demonstrated using Test Method 5 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996.

b. Emission Limitation

3.32 lbs/hr of NO_x for B001

Applicable Compliance Method

Compliance shall be demonstrated using Test Method 7 or 7E as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996.

c. Emission Limitation

9.23 lbs/hr of CO for B001

Applicable Compliance Method

Compliance shall be demonstrated using Test Method 10 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996.

d. Emission Limitation

1.00 lb/hr of VOC for B001

Applicable Compliance Method

Compliance with the allowable mass emission rate for VOC's shall be determined by multiplying an emission factor of 5.8 lbs of VOC's per million

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cubic feet of natural gas burned, by the actual million cubic feet of natural gas burned. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-3. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with test method 18 or 25 specified in "Appendix on Test Method" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), .

e. Emission Limitation

20 percent opacity for B001

Applicable Compliance Method

Compliance with the visible emission limit shall be determined through visible emission 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). No visible emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

E. Miscellaneous Requirements

1. None.

II. B002

A. Additional Terms and Conditions

1. The permittee shall burn only natural gas in emissions unit B002.

B. Monitoring and Recordkeeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in emission units B002.

C. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in emission units B002. Each

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report shall be submitted within 30 days after the deviation occurs.

D. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirement:
 - a. the emission testing shall be conducted within 90 days of start-up of the emissions unit, using the listed methods for the following pollutants: PM, NO_x, CO.
2. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Southeast District Office's refusal to accept the results of the emission test(s).
3. Personnel from the Ohio EPA, Southeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
4. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Southeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Southeast District Office.
 - a. Emission Limitation

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0.01 lb/MMBTU of PM for B002

Applicable Compliance Method

Compliance shall be demonstrated using Test Method 5 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996.

b. Emission Limitation

3.32 lbs/hr of NO_x for B002

Applicable Compliance Method

Compliance shall be demonstrated using Test Method 7 or 7E as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996.

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c. Emission Limitation

9.23 lbs/hr of CO for B002

Applicable Compliance Method

Compliance shall be demonstrated using Test Method 10 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996.

d. Emission Limitation

1.00 lb/hr of VOC for B002

Applicable Compliance Method

Compliance with the allowable mass emission rate for VOC's shall be determined by multiplying an emission factor of 5.8 lbs of VOC's per million cubic feet of natural gas burned, by the actual million cubic feet of natural gas burned. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-3. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with test method 18 or 25 specified in "Appendix on Test Method" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), .

e. Emission Limitation

20 percent opacity for B002

Applicable Compliance Method

Compliance with the visible emission limit shall be determined through visible emission 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). No visible emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

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E. Miscellaneous Requirements

1. None.

III. B003

A. Additional Terms and Conditions

1. The permittee shall burn only natural gas in emissions unit B003.

B. Monitoring and Recordkeeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in emission units B003.

C. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in emission units B003. Each report shall be submitted within 30 days after the deviation occurs.

D. Testing Requirements

1. Emission Limitation

0.1 lb/hr of PM for B003

Applicable Compliance Method

Compliance with the allowable mass emission rate for PM shall be determined by multiplying an emission factor of 6.2 lbs of PM per million cubic feet of natural gas burned, by the actual million cubic feet of natural gas burned. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-3. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with test method 5 specified in "Appendix on Test Method" in 40 CFR, Part 60 ("Standards of Performance

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for New Stationary Sources"),.

2. Emission Limitation

0.55 lb/hr of NO_x for B003

Applicable Compliance Method

Compliance with the allowable mass emission rate for NO_x shall be determined by multiplying an emission factor of 30.0 lbs of NO_x per million cubic feet of natural gas burned, by the actual million cubic feet of natural gas burned. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-3. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with test method 7 or 7E specified in "Appendix on Test Method" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"),.

3. Emission Limitation

1.00 lb/hr of VOC for B003

Applicable Compliance Method

Compliance with the allowable mass emission rate for VOC's shall be determined by multiplying an emission factor of 5.8 lbs of VOC's per million cubic feet of natural gas burned, by the actual million cubic feet of natural gas burned. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-3. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with test method 18 or 25 specified in "Appendix on Test Method" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"),.

4. Emission Limitation

9.23 lbs/hr of CO for B003

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Applicable Compliance Method

Compliance with the allowable mass emission rate for CO shall be determined by multiplying an emission factor of 37.0 lbs of CO per million cubic feet of natural gas burned, by the actual million cubic feet of natural gas burned. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with test method 10 specified in "Appendix on Test Method" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), .

5. Emission Limitation

20 percent opacity for B003

Applicable Compliance Method

Compliance with the visible emission limit shall be determined through visible emission 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). No visible emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

E. Miscellaneous Requirements

1. None.

IV. **B004**

A. Additional Terms and Conditions

1. The permittee shall burn only natural gas in emissions unit B004.

B. Monitoring and Recordkeeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in emission units B004.

C. Reporting Requirements

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1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in emission units B004. Each report shall be submitted within 30 days after the deviation occurs.

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D. Testing Requirements

1. Emission Limitation

0.1 lb/hr of PM for B004

Applicable Compliance Method

Compliance with the allowable mass emission rate for PM shall be determined by multiplying an emission factor of 6.2 lbs of PM per million cubic feet of natural gas burned, by the actual million cubic feet of natural gas burned. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-3. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with test method 5 specified in "Appendix on Test Method" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), .

2. Emission Limitation

0.55 lb/hr of NO_x for B004

Applicable Compliance Method

Compliance with the allowable mass emission rate for NO_x shall be determined by multiplying an emission factor of 30.0 lbs of NO_x per million cubic feet of natural gas burned, by the actual million cubic feet of natural gas burned. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-3. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with test method 7 or 7E specified in "Appendix on Test Method" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), .

3. Emission Limitation

1.00 lb/hr of VOC for B004

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Applicable Compliance Method

Compliance with the allowable mass emission rate for VOC's shall be determined by multiplying an emission factor of 5.8 lbs of VOC's per million cubic feet of natural gas burned, by the actual million cubic feet of natural gas burned. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-3. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with test method 18 or 25 specified in "Appendix on Test Method" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), .

4. Emission Limitation

9.23 lbs/hr of CO for B004

Applicable Compliance Method

Compliance with the allowable mass emission rate for CO shall be determined by multiplying an emission factor of 37.0 lbs of CO per million cubic feet of natural gas burned, by the actual million cubic feet of natural gas burned. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with test method 10 specified in "Appendix on Test Method" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), .

5. Emission Limitation

20 percent opacity for B004

Applicable Compliance Method

Compliance with the visible emission limit shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule

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Facility Name: **Elkem Metals Company**

Application Number: **06-5471**

Date: **September 16, 1998**

3745-17-03(B)(1). No visible emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

E. **Miscellaneous Requirements**

1. None.