

**New York State Department of Environmental Conservation**  
**Facility DEC ID: 7050100044**



**PERMIT**  
**Under the Environmental Conservation Law (ECL)**

**IDENTIFICATION INFORMATION**

Permit Type: Air Title V Facility  
Permit ID: 7-0501-00044/00007  
Mod 0 Effective Date: 05/04/2001 Expiration Date: 05/04/2006  
Mod 2 Effective Date: 06/25/2002 Expiration Date: 05/04/2006  
Mod 3 Effective Date: 07/07/2004 Expiration Date: 05/04/2006

Permit Issued To: NUCOR STEEL AUBURN INC  
25 QUARRY ROAD  
PO BOX 2008  
AUBURN, NY 13021

Contact: STEPHEN A GREEN  
NUCOR STEEL AUBURN INC  
25 QUARRY ROAD  
AUBURN, NY 13021-2008  
(315) 258-4230

Facility: NUCOR STEEL AUBURN INC  
25 QUARRY ROAD  
AUBURN, NY 13021

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NUCOR STEEL AUBURN INC  
25 QUARRY ROAD  
AUBURN, NY 13021-2008  
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Description:

General Project Description:

The Auburn Steel Company, completed construction and began operation of its Auburn Plant in New York in 1975. Since that time there have been a number of facility upgrades. In 1983, a Prevention of Significant Deterioration of Air Quality (PSD) permit was required for an expansion project. At that time, carbon monoxide (CO) was the only PSD-affected pollutant. Nucor Corporation acquired the facility in April 2001. Nucor Steel Auburn Inc. (Nucor), as the plant is presently known, receives scrap metal and, using an electric arc furnace (EAF), produces billets of steel that are sold or manufactured into bar stock and reinforcement rod for various types of products. The scrap is received by rail or truck, sorted by type and used to make specification steel. Coal, coke, coke breeze, coke products and/or rubber tires are used for a source of carbon in producing various steel products. A large baghouse collects and filters all EAF



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exhausts. Because the facility recycles or otherwise uses a variety of material feedstocks in the process, the quantities of any one material will vary as different grades of steel are made.

**Type of Equipment and Operations:**

The plant consists of an electric arc furnace (EAF) melt shop, billet continuous caster, a reheat furnace, and a hot steel rolling mill. The charges of scrap steel are melted by the heat from electric current passing through three electrodes. Molten steel is tapped into a heated ladle, refined by stirring with an inert gas and adding alloys to achieve the desired metallurgy and continuously cast into billets. Billets are cut to length as they emerge from the caster and are cooled with water sprays. Additional equipment that may or may not be used on or with the EAF melt shop are various lances, ladle preheaters, oxyfuel burners, fast acting hydraulic cylinders, alloy feed systems and material holding devices. Some billets are sent directly to the rolling mill for processing into bars and round stock. Other billets are sold directly or stored until a product is required to be manufactured. When these billets are to be rolled, they are reheated in a reheat furnace before they are rolled.

**Proposed Modification:**

The facility has proposed that the steel production limit at the existing electric arc furnace (EAF) be increased from 600,000 to 665,000 tons of steel per rolling 12-month. Nucor is also proposing to replace its existing natural gas-fired reheat furnace with a new, modern natural gas-fired one with a capacity of 179 MMBTU/hour heat input. The maximum steel throughput at the rolling mill connected to the reheat furnace will remain at 575,000 tons per rolling 12-month period. Nucor had recently requested and received from the NYSDEC approval to increase steel production to 600,000 tons/year from 500,000 tons/year. The 600,000 tons/year limit was codified in the PSD permit by the NYSDEC on June 25, 2002. This latest proposed modification is being combined with the previous steel production increase. Also, the same applies to the existing rolling mill since it was recently permitted for an increase in production to 575,000 tons/year. The 575,000 tons/year limit was also codified in the PSD permit by the NYSDEC on June 25, 2002. The June 25, 2002 permit modification triggered PSD review for CO and NOx. The emission increases associated by combining these changes into one review will be 377.8 tpy for carbon monoxide (CO), 57.9 tpy for nitrogen oxides (NOx), 41.85 tpy for sulfur dioxide (SO<sub>2</sub>), 23.9 tpy for volatile organic compounds (VOC), 2.32 tpy for particulate matter (PM), and 2.32 tpy of particulate matter under 10 microns (PM<sub>10</sub>). Based on the emission increases associated by combining these changes, this project is now subject to the Prevention of Significant Deterioration of Air Quality (PSD) review for CO, NOx and SO<sub>2</sub> and nonattainment 6NYCRR Part 231 review for NOx. The PSD review will be addressed by the USEPA in a separate permit proceeding.

Nature of Business conducted at the facility including applicable Standard Industrial Classification (SIC) Codes: Secondary steel scrap mill -- SIC Code 3312 and North American Industry Classification System (NAICS) Code 331111.

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator:                   JOANNE L MARCH  
  DIVISION OF ENVIRONMENTAL PERMITS

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615 ERIE BLVD WEST  
SYRACUSE, NY 13204-2400

Authorized Signature: \_\_\_\_\_ Date: \_\_\_ / \_\_\_ / \_\_\_\_\_



**Notification of Other State Permittee Obligations**

**Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

**Item B: Permittee's Contractors to Comply with Permit**

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

**Item C: Permittee Responsible for Obtaining Other Required Permits**

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

**Item D: No Right to Trespass or Interfere with Riparian Rights**

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.



**LIST OF CONDITIONS**

**DEC GENERAL CONDITIONS**

**General Provisions**

Facility Inspection by the Department

Relationship of this Permit to Other Department Orders and Determinations

Applications for Permit Renewals and Modifications

Applications for Permit Renewals and Modifications

Permit Modifications, Suspensions and Revocations by the Department

Permit Modifications, Suspensions, and Revocations by the Department

**Facility Level**

Submission of Applications for Permit Modification or Renewal -REGION 7  
HEADQUARTERS



**DEC GENERAL CONDITIONS**

**\*\*\*\* General Provisions \*\*\*\***

**For the purpose of your Title V permit, the following section contains state-only enforceable terms and conditions**

**GENERAL CONDITIONS - Apply to ALL Authorized Permits.**

**Condition 1: Facility Inspection by the Department**  
**Applicable State Requirement: ECL 19-0305**

**Item 1.1:**

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

**Item 1.2:**

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

**Item 1.3:**

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

**Condition 2: Relationship of this Permit to Other Department Orders and Determinations**  
**Applicable State Requirement: ECL 3-0301.2(m)**

**Item 2.1:**

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

**Condition 3-1: Applications for Permit Renewals and Modifications**  
**Applicable State Requirement: 6NYCRR 621.13**

**Item 3-1.1:**

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

**Item 3-1.2:**

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

**Item 3-1.3:**

Permits are transferrable with the approval of the department unless specifically prohibited by the statute,



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regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

**Condition 3: Applications for Permit Renewals and Modifications**  
**Applicable State Requirement: 6NYCRR 621.13(a)**

**Expired by Mod No: 3**

**Item 3.1:**

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

**Item 3.2:**

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

**Condition 3-2: Permit Modifications, Suspensions and Revocations by the Department**  
**Applicable State Requirement: 6NYCRR 621.14**

**Item 3-2.1:**

The Department reserves the right to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

**Condition 4: Permit Modifications, Suspensions, and Revocations by the Department**  
**Applicable State Requirement: 6NYCRR 621.14**

**Expired by Mod No: 3**

**Item 4.1:**

The Department reserves the right to modify, suspend, or revoke this permit. The grounds for modification, suspension or revocation include:

- a) the scope of the permitted activity is exceeded or a violation of any condition of the permit or provisions of the ECL and pertinent regulations is found;
- b) the permit was obtained by misrepresentation or failure to disclose relevant facts;
- c) new material information is discovered; or
- d) environmental conditions, relevant technology, or applicable law or regulation have materially changed since the permit was issued.



**\*\*\*\* Facility Level \*\*\*\***

**Condition 5: Submission of Applications for Permit Modification or Renewal -REGION 7  
HEADQUARTERS  
Applicable State Requirement: 6NYCRR 621.5(a)**

**Item 5.1:**

Submission of applications for permit modification or renewal are to be submitted to:  
NYSDEC Regional Permit Administrator  
Region 7 Headquarters  
Division of Environmental Permits  
615 Erie Blvd West  
Syracuse, NY 13204-2400  
(315) 426-7400



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**ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT**

**IDENTIFICATION INFORMATION**

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25 QUARRY ROAD  
PO BOX 2008  
AUBURN, NY 13021

Facility: NUCOR STEEL AUBURN INC  
25 QUARRY ROAD  
AUBURN, NY 13021

Authorized Activity By Standard Industrial Classification Code:  
3312 - BLAST FURNACES AND STEEL MILLS

Mod 0 Permit Effective Date: 05/04/2001

Permit Expiration Date: 05/04/2006



**LIST OF CONDITIONS**

**FEDERALLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 24 6NYCRR 201-6: Emission Unit Definition
- 3-1 6NYCRR 201-6.5(c): Recordkeeping and reporting of compliance monitoring
- 3-2 6NYCRR 201-6.5(c)(2): Monitoring, Related Recordkeeping, and Reporting Requirements.
- 3-3 6NYCRR 201-6.5(e): Compliance Certification
- 2-3 6NYCRR 202-1.1: Required Emissions Tests - Facility Level
- 30 6NYCRR 202-2.1: Compliance Certification
- 31 6NYCRR 202-2.5: Recordkeeping requirements
- 35 6NYCRR 216.3: Particulate emission limit
- 3-4 6NYCRR 231-2.4: Notification/Reporting requirements
- 3-5 6NYCRR 231-2.9(a): Compliance Certification
- 3-6 40CFR 52.21, Subpart A: Compliance Certification
- 3-7 40CFR 68: Accidental release provisions.

**Emission Unit Level**

- 38 6NYCRR 201-6: Emission Point Definition By Emission Unit
- 39 6NYCRR 201-6: Process Definition By Emission Unit

**EU=U-0001B**

- 2-6 6NYCRR 216: Compliance Certification
- 3-8 40CFR 52.21, Subpart A: Compliance Certification
- 3-9 40CFR 52.21, Subpart A: Compliance Certification
- 3-10 40CFR 60, NSPS Subpart AAa: Compliance Certification

**EU=U-0001B,Proc=001**

- 3-11 40CFR 60.272a(a)(3), NSPS Subpart AAa: Compliance Certification
- 3-12 40CFR 60.272a(b), NSPS Subpart AAa: Compliance Certification
- 3-13 40CFR 60.274a(b), NSPS Subpart AAa: Compliance Certification
- 3-14 40CFR 60.274a(h), NSPS Subpart AAa: Compliance Certification

**EU=U-0001B,Proc=001,ES=00001**

- 3-15 40CFR 60.274a(d), NSPS Subpart AAa: Compliance Certification

**EU=U-0001B,EP=0001B**

- 3-16 6NYCRR 216.5: Compliance Certification

**EU=U-0001B,EP=0001B,Proc=001**

- 3-17 6NYCRR 231-2.9(a): Compliance Certification
- 3-18 40CFR 52.21, Subpart A: Compliance Certification
- 3-19 40CFR 52.21, Subpart A: Compliance Certification
- 3-20 40CFR 60.272a(a)(1), NSPS Subpart AAa: Compliance Certification
- 3-21 40CFR 60.272a(a)(2), NSPS Subpart AAa: Compliance Certification

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**EU=U-0001B,EP=0001B,Proc=001,ES=00002**

3-22 6NYCRR 231-2.5(a): Compliance Certification

3-23 6NYCRR 231-2.5(a): Compliance Certification

**EU=U-0RBF1,EP=0RBF1**

3-24 6NYCRR 227-1.3(a): Compliance Certification

**EU=U-0RBF1,EP=0RBF1,Proc=002,ES=00005**

3-25 6NYCRR 227-2.4(g): Compliance Certification

**EU=U-0RBF1,EP=0RBF2**

3-26 6NYCRR 227-1.3(a): Compliance Certification

**EU=U-0RBF1,EP=0RBF2,Proc=002,ES=00006**

3-27 6NYCRR 231-2.5(a): Compliance Certification

3-28 6NYCRR 231-2.5(a): Compliance Certification

3-29 6NYCRR 231-2.9(a): Compliance Certification

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

3-30 ECL 19-0301: Contaminant List

3-31 6NYCRR 201-1.4: Unavoidable noncompliance and violations

61 6NYCRR 211.2: Air pollution prohibited

Mod 2 Permit Effective Date: 06/25/2002

Permit Expiration Date: 05/04/2006

Mod 3 Permit Effective Date: 07/07/2004

Permit Expiration Date: 05/04/2006



**FEDERALLY ENFORCEABLE CONDITIONS**

**\*\*\*\* Facility Level \*\*\*\***

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.**

**Item A: Sealing - 6NYCRR Part 200.5**

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation.

Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

**Item B: Acceptable Ambient Air Quality - 6NYCRR Part 200.6**

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

**Item C: Maintenance of Equipment - 6NYCRR Part 200.7**

Any person who owns or operates an air contamination

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source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such device effectively.

**Item D: Unpermitted Emission Sources - 6NYCRR Part 201-1.2**

If an existing emission source was subject to the permitting requirements of 6NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

(a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.

(b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

**Item E: Emergency Defense - 6NYCRR Part 201-1.5**

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;

(2) The equipment at the permitted facility causing the emergency was at the time being properly operated;

(3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the

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emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner and/or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

**Item F: Recycling and Salvage - 6NYCRR Part 201-1.7**

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

**Item G: Prohibition of Reintroduction of Collected Contaminants to the Air - 6NYCRR Part 201-1.8**

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

**Item H: Public Access to Recordkeeping for Title V Facilities - 6NYCRR Part 201-1.10(b)**

The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

**Item I: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR Part 201-3.2(a)**

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control

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requirements, regulations, or law.

**Item J: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR Part 201-3.3(a)**

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

**Item K: Timely Application for the Renewal of Title V Permits - 6 NYCRR Part 201-6.3(a)(4)**

Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

**Item L: Certification by a Responsible Official - 6 NYCRR Part 201-6.3(d)(12)**

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

**Item M: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.5(a)(2)**

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

**Item N: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission**

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**Requirements - 6 NYCRR Part 201-6.5(a)(3)**

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

**Item O: Providing Information Upon Request - 6 NYCRR Part 201-6.5(a)(4)**

The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The permittee shall also, on request, furnish the Department with copies of records required to be kept by the permit. Where information is claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

**Item P: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR Part 201-6.5(a)(5)**

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

**Item Q: Property Rights - 6 NYCRR Part 201-6.5(a)(6)**

This permit does not convey any property rights of any sort or any exclusive privilege.

**Item R: Fees - 6 NYCRR Part 201-6.5(a)(7)**

The owner and/or operator of a stationary source shall pay fees to the department consistent with the fee schedule authorized by 6 NYCRR Subpart 482-2.

**Item S: Right to Inspect - 6 NYCRR Part 201-6.5(a)(8)**

Upon presentation of credentials and other documents, as may be required by law, the permittee shall allow the Department or an authorized representative to perform the following:

- i. Enter upon the permittee's premises where the permitted

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facility is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

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

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

**Item T: Severability - 6 NYCRR Part 201-6.5(a)(9)**

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

**Item U: Progress Reports and Compliance Schedules - 6 NYCRR Part 201-6.5(d)(5)**

Progress reports consistent with an applicable schedule of compliance must be submitted at least semiannually on a calendar year basis, or at a more frequent period if specified in the applicable requirement or by the Department elsewhere in this permit. These reports shall be submitted to the Department within 30 days after the end of a reporting period. Such progress reports shall contain the following:

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

ii. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

**Item V: Off Permit Changes - 6 NYCRR Part 201-6.5(f)(6)**

No permit revision will be required for operating changes that contravene an express permit term, provided that such

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changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the Administrator and the Department with written notification in advance of the proposed changes within a minimum of 7 days as required by 6 NYCRR §201-6.5(f)(6).

**Item W: Permit Shield - 6 NYCRR Part 201-6.5(g)**

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the

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Act;

iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

**Item X: Reopening for Cause - 6 NYCRR Part 201-6.5(i)**

This Title V permit shall be reopened and revised under any of the following circumstances:

i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.

ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.

iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide

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a shorter time period in the case of an emergency.

**Item Y: Required Emission Tests - 6 NYCRR Part 202-1.1**

An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6NYCRR Part 202-1.

**Item Z: Visible Emissions Limited - 6 NYCRR Part 211.3**

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

**Item AA: Open Fires - 6 NYCRR Part 215**

No person shall burn, cause, suffer, allow or permit the burning in an open fire of garbage, rubbish for salvage, or rubbish generated by industrial or commercial activities.

**Item BB: Permit Exclusion - ECL 19-0305**

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

**Item CC: Federally Enforceable Requirements - 40 CFR 70.6(b)**

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All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

**FEDERAL APPLICABLE REQUIREMENTS**

**The following conditions are subject to annual compliance certification requirements for Title V permits only.**

**Condition 24: Emission Unit Definition**  
**Effective between the dates of 05/04/2001 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 201-6**

**Item 24.1(From Mod 3):**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: U-0001B

Emission Unit Description:

Electric Arc Furnace (EAF) emissions are controlled by direct shell evacuation, canopy hood and closed building roof. Particulate emissions are recovered in a fabric filter baghouse.

Building(s): BH  
CA  
MS  
SH

**Item 24.2(From Mod 3):**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: U-0RBF1

Emission Unit Description:

Billet reheat furnace heats billets to rolling temperature prior to rolling into finished products.

Building(s): BS  
RF  
RM

**Condition 3-1: Recordkeeping and reporting of compliance monitoring**



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**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 201-6.5(c)**

**Item 3-1.1:**

The following information must be included in any required compliance monitoring records and reports:

- (i) The date, place, and time of sampling or measurements;
- (ii) The date(s) analyses were performed;
- (iii) The company or entity that performed the analyses;
- (iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;
- (v) The results of such analyses including quality assurance data where required; and
- (vi) The operating conditions as existing at the time of sampling or measurement.

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.3 of this Part 201.

**Condition 3-2: Monitoring, Related Recordkeeping, and Reporting Requirements.**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 201-6.5(c)(2)**

**Item 3-2.1:**

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

**Condition 3-3: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 201-6.5(e)**

**Item 3-3.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 3-3.2:**

Compliance Certification shall include the following monitoring:

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Requirements for compliance certifications with terms and conditions contained in this facility permit include the following:

- i. Compliance certifications shall contain:
  - the identification of each term or condition of the permit that is the basis of the certification;
  - the compliance status;
  - whether compliance was continuous or intermittent;
  - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
  - such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions;
  - and
  - such additional requirements as may be specified elsewhere in this permit related to compliance certification.
  
- ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.
  
- iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.
  
- iv. All compliance certifications shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office). Please send annual compliance certifications to Chief of the Stationary Source Compliance Section, the Region 2 EPA representative

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for the Administrator, at the following address:

USEPA Region 2  
Air Compliance Branch  
290 Broadway  
New York, NY 10007-1866

The address for the RAPCE is as follows:

615 Erie Boulevard, West  
Syracuse, NY 13204-2400

The address for the BQA is as follows:

NYSDEC  
Bureau of Quality Assurance  
625 Broadway  
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2002.

Subsequent reports are due on the same day each year

**Condition 2-3: Required Emissions Tests - Facility Level**  
**Effective between the dates of 06/25/2002 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 202-1.1**

**Item 2-3.1:**

**An acceptable report of measured emissions shall be submitted, as required by the commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation.**

**Condition 30: Compliance Certification**  
**Effective between the dates of 05/04/2001 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 202-2.1**

**Item 30.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 30.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emission statements shall be submitted on or before April



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15th each year for emissions of the previous calendar year.

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due by April 15th for previous calendar year

**Condition 31: Recordkeeping requirements**

**Effective between the dates of 05/04/2001 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 202-2.5**

**Item 31.1:**

(a) The following records shall be maintained for at least five years:

- (1) a copy of each emission statement submitted to the department; and
- (2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

**Condition 35: Particulate emission limit**

**Effective between the dates of 05/04/2001 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 216.3**

**Item 35.1:**

Any iron and/or steel process must not cause or allow emissions of particulates from any confined process to exceed the limits contained in Table 1 of Part 216 or as listed in this permit.

**Condition 3-4: Notification/Reporting requirements**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 231-2.4**

**Item 3-4.1:**

At least sixty (60) days prior to the scheduled commence operation date of the proposed source project or proposed major facility, the permittee shall submit any changes to the list of offset sources included in this permit. For each such change, the applicant must submit another "Use of Emission Reduction Credits Form" signed by the applicant and an authorized representative of the new offset source.

**Item 3-4. 2:**

The facility shall submit to the DEC Regional office a letter of confirmation that each future emission reduction, if any, used to provide emission offsets for this facility has physically occurred. This letter should be submitted, not less than 10 working days, prior to the facility's scheduled start-up date.



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**Item 3-4.3:**

This permit shall be subject to revocation if construction is not commenced within 18 months from the date of issuance of such permit or if construction is discontinued for a period of 18 months or more (excluding any period of time that the permit is subject to challenge in State or Federal court), or if construction is not completed within a reasonable time acceptable to the Department.

**Condition 3-5: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 231-2.9(a)**

**Item 3-5.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 3-5.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To satisfy the emission offset requirements of Part 231-2 for the proposed modification, the facility shall obtain 67 tons/year of Emission Reduction Credits prior to construction of the proposed modification.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 3-6: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 3-6.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 3-6.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The June 22, 2004 EPA PSD permit issued to Nucor Steel, for the modification to the facility to add a new reheat



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furnace and increase EAF production, is attached (as Attachment A) and incorporated by reference into this Title V permit. Nucor Steel must comply with all terms and conditions of the Federal PSD permit. If there are any discrepancies between the PSD and Title V permit conditions, Nucor shall comply with the most stringent of the two. Any violation of the terms or conditions of the Federal PSD permit may be addressed by NYSDEC through enforcement of this Title V operating permit.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 3-7: Accidental release provisions.  
Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 40CFR 68**

**Item 3-7.1:**

If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Tables 1,2,3 or 4, the following requirements will apply:

- a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;
- b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:
  - 1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,
  - 2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

USEPA Region 2  
Air Compliance Branch  
290 Broadway  
New York, NY 10007-1866  
ATTN: Accidental Release Program contact

**\*\*\*\* Emission Unit Level \*\*\*\***

**Condition 38: Emission Point Definition By Emission Unit  
Effective between the dates of 05/04/2001 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 201-6**



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**Item 38.1(From Mod 3):**

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-0001B

Emission Point: 0001B

Height (ft.): 93

Length (in.): 1116

Width (in.): 156

NYTMN (km.): 4756.624

NYTME (km.): 371.8

Building: BH

**Item 38.2(From Mod 3):**

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-0RBF1

Emission Point: 0RBF1

Height (ft.): 100

Diameter (in.): 72

NYTMN (km.): 4756.523

NYTME (km.): 371.548

Building: BS

Emission Point: 0RBF2

Height (ft.): 147

Diameter (in.): 82

Building: BS

**Condition 39: Process Definition By Emission Unit**

**Effective between the dates of 05/04/2001 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 201-6**

**Item 39.1(From Mod 3):**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-0001B

Process: 001

Source Classification Code: 3-04-007-32

Process Description:

Scrap steel is melted in the Electric Arc Furnace. Tires are added to the EAF as a source of carbon in lieu of coal. Molten steel is tapped from the furnace and continuously cast into billets. Charging, melting, slagging, refining, and tapping emissions are controlled by Direct Shell Evacuation, canopy hood and closed building roof which conveys emissions to a fabric filter baghouse.

Emission Source/Control: 00001 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 00002 - Process

Design Capacity: 80 tons per hour

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**Item 39.2(From Mod 3):**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-0RBF1

Process: 002

Source Classification Code: 3-04-007-40

Process Description:

Steel billets are reheated in a natural gas fired furnace prior to rolling into finished products. The existing reheat furnace will no longer be used after the new reheat furnace is operational.

Emission Source/Control: 00006 - Combustion

Design Capacity: 179 million Btu per hour

Emission Source/Control: 00003 - Control

Control Type: LOW NOX BURNERS, FLUE GAS  
RECIRCULATION

Emission Source/Control: 00005 - Process

Design Capacity: 100 tons per hour

**Condition 2-6: Compliance Certification**

**Effective between the dates of 06/25/2002 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 216**

**Item 2-6.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

**Item 2-6.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL  
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Visible emissions from slag handling and transport systems shall not equal or exceed 10 % opacity (6 minute average)

Parameter Monitored: OPACITY

Upper Permit Limit: 10 percent

Monitoring Frequency: AS REQUIRED - SEE MONITORING  
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: ANNUALLY (CALENDAR)



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Reports due 30 days after the reporting period.  
The initial report is due 4/30/2003.  
Subsequent reports are due every 12 calendar month(s).

**Condition 3-8: Compliance Certification**  
**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Replaces Condition(s) 2-7**

**Item 3-8.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 3-8.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

PSD limit for Carbon Monoxide, 1 hour average. Carbon monoxide must be continuously monitored in accordance with the PSD permit dated September 27, 1983.

Manufacturer Name/Model Number: Thermal Environmental Instruments Model 48

Upper Permit Limit: 450 parts per million (by volume)

Reference Test Method: 40 CFR 60 App B & F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2004.

Subsequent reports are due every 6 calendar month(s).

**Condition 3-9: Compliance Certification**  
**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Replaces Condition(s) 2-8**

**Item 3-9.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B



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Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 3-9.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

EAF carbon monoxide limit (30 day rolling average) from  
1983 PSD permit.

Manufacturer Name/Model Number: Thermal Environmental Instruments Model 48

Upper Permit Limit: 150 parts per million (by volume)

Reference Test Method: 40 CFR 60 APP B & F

Monitoring Frequency: CONTINUOUS

Averaging Method: 30-DAY ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2004.

Subsequent reports are due every 6 calendar month(s).

**Condition 3-10: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 40CFR 60, NSPS Subpart AAa**

**Item 3-10.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

**Item 3-10.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Nucor Steel must comply with all provisions of 40 CFR  
Subpart AAa, Standards of Performance for Steel Plants:  
Electric Arc Furnaces constructed or modified after August  
17, 1982.

Monitoring Frequency: AS REQUIRED - SEE MONITORING  
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 3-11: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

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**Applicable Federal Requirement: 40CFR 60.272a(a)(3), NSPS Subpart AAa**

**Item 3-11.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

Process: 001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 3-11.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL  
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Opacity of emissions exiting the EAF shop (building housing the EAF) shall not equal or exceed 6% opacity. Visible emission observations shall be conducted at least once per day by an EPA RM 9 certified individual when the furnace is operating in the meltdown and refining period. These observations shall be taken in accordance with EPA RM 9 for at least one 6-minute period. The opacity shall be recorded for any point(s) where visible emissions are observed.

Where it is possible to determine that a number of visible emissions sites relate to only one incident of the visible emissions, only one set of three 6-minute observations will be required. In this case, Method 9 observations must be made for the site of highest opacity that directly relates to the cause (or location) of visible emissions observed during a single incident.

The facility must retain records of daily opacity observations on site for at least 2 years following the date of each measurement. The facility must submit a written report of opacity exceedences to DEC Region 7 and EPA semi-annually. Exceedences are defined as all 6-minute periods during which the average opacity is 6 percent or greater.

Parameter Monitored: OPACITY

Upper Permit Limit: 6 percent

Reference Test Method: EPA RM 9

Monitoring Frequency: DAILY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)



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Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2004.

Subsequent reports are due every 6 calendar month(s).

**Condition 3-12: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 40CFR 60.272a(b), NSPS Subpart AAa**

**Item 3-12.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

Process: 001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 3-12.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL  
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Opacity from the baghouse dust handling system shall not equal or exceed 10% opacity. The dust handling system includes the dust hoppers, dust conveying equipment, dust storage equipment, dust treating equipment, dust transfer equipment (from storage to truck), and any secondary control devices used with the dust transfer equipment.

At least one 6-minute average opacity observation shall be performed weekly at the point of highest opacity from the dust handling system. A written log shall be maintained at the facility of each weekly inspection identifying the name of the inspector, date and time of the inspection, and the results of the EPA RM 9 observation.

The facility shall identify in the semi-annual compliance monitoring report any periods of excess opacity (6-minute average greater than or equal to 10%) observed during weekly inspection of the dust handling facility.

Parameter Monitored: OPACITY

Upper Permit Limit: 10 percent

Reference Test Method: EPA RM 9



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Monitoring Frequency: WEEKLY  
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 10/30/2004.  
Subsequent reports are due every 6 calendar month(s).

**Condition 3-13: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 40CFR 60.274a(b), NSPS Subpart AAa**

**Item 3-13.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B  
Process: 001

**Item 3-13.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL  
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Nucor shall check and record the amperes for both baghouse fan motors and the fan damper positions on a once-per-shift basis. Nucor shall operate the fans such that the motor amperes and damper positions are maintained at the levels documented during the most recent compliant particulate stack test. Operation of either baghouse fan motor amperes at values exceeding  $\pm 15\%$  of the value established during the most recent compliant particulate stack test may be considered unacceptable operation and maintenance of the facility. Operation at such values shall be reported to the Department and EPA semiannually.

Parameter Monitored: CURRENT/CURRENT DRAW

Lower Permit Limit: -15 percent

Upper Permit Limit: +15 percent

Monitoring Frequency: PER SHIFT

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER  
OCCURRENCE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2004.

Subsequent reports are due every 6 calendar month(s).

**Condition 3-14: Compliance Certification**



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**Applicable Federal Requirement: 40CFR 60.274a(h), NSPS Subpart AAa**

**Item 3-14.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

Process: 001

**Item 3-14.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

During any performance test required under 40CFR60.8 and for any report thereof required by 40CFR60.275a(d), or to determine compliance with 40CFR60.272a(a)(3), the owner or operator shall monitor the following information for all heats covered by the test: (1) Charge weights and materials, and tap weights and materials: (2) Heat times, including start and stop times, and a log of process operation, including periods of no operation during testing and the pressure inside the EAF when the direct-shell evacuation control systems are used: (3) Control device operation log: (4) Continuous monitor or Reference Method 9 data.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 3-15: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 40CFR 60.274a(d), NSPS Subpart AAa**

**Item 3-15.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

Process: 001

Emission Source: 00001

**Item 3-15.2:**

Compliance Certification shall include the following monitoring:



**New York State Department of Environmental Conservation**

**Permit ID: 7-0501-00044/00007**

**Facility DEC ID: 7050100044**

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall perform monthly operational status inspections of the equipment that is important to the performance of the total capture system (i.e., pressure sensors, dampers and damper switches). This inspection shall include observations of the physical appearance of the equipment (e.g., presence of holes in duct-work or hoods, flow constrictions caused by dents or accumulated dust in ductwork and fan erosion). Any deficiencies shall be noted and proper maintenance performed.

Monitoring Frequency: MONTHLY

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (ANNIVERSARY)

Initial Report Due: 12/03/2004 for the period 07/07/2004 through 11/03/2004

**Condition 3-16: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 216.5**

**Item 3-16.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B Emission Point: 0001B

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 3-16.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility is a major NOx emission source since facility annual PTE for NOx emissions is greater than 100 tons/year. Therefore, the facility is subject to the Part 216.5 NOx RACT requirements for the Electric Arc Furnace (EAF). However, EAF NOx emissions are currently limited by a more stringent PSD requirement contained in this permit.

180 days after the effective date of this permit, the EAF will be subject to Part 231-2 LAER standard as part of a major source project. Therefore, compliance with the EAF



**New York State Department of Environmental Conservation**

**Permit ID: 7-0501-00044/00007**

**Facility DEC ID: 7050100044**

NO<sub>x</sub> LAER emission limit in this permit will constitute compliance with the NO<sub>x</sub> RACT requirements of Part 216.5.

Monitoring Frequency: SEMI-ANNUALLY

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 3-17: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 231-2.9(a)**

**Item 3-17.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B Emission Point: 0001B  
Process: 001

**Item 3-17.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Annual billet ton production limit for the EAF to limit annual NO<sub>x</sub> potential emissions for determining ERCs required for offsets for the source project. Billet ton production from the EAF shall be recorded daily. Daily records shall be used to calculate the monthly rolling totals.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: BILLETS

Upper Permit Limit: 665000 tons per year

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2004.

Subsequent reports are due every 6 calendar month(s).

**Condition 3-18: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 3-18.1:**

The Compliance Certification activity will be performed for:



**New York State Department of Environmental Conservation**

**Permit ID: 7-0501-00044/00007**

**Facility DEC ID: 7050100044**

Emission Unit: U-0001B Emission Point: 0001B  
Process: 001

Regulated Contaminant(s):  
CAS No: 000630-08-0 CARBON MONOXIDE

**Item 3-18.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Carbon monoxide emissions shall not exceed 2.0 lbs/billet ton.

This limit will be superceded upon demonstration of compliance with EPA PSD permit requirements for Carbon Monoxide emissions from the Electric Arc Furnace.

Upper Permit Limit: 2.0 pounds per ton

Reference Test Method: EPA RM 10

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 3-19: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Replaces Condition(s) 2-13**

**Item 3-19.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B Emission Point: 0001B  
Process: 001

Regulated Contaminant(s):  
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 3-19.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Nitrogen Oxide emissions shall not exceed 0.27 lbs/billet ton.



**New York State Department of Environmental Conservation**

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**Facility DEC ID: 7050100044**

This limit will be superceded upon demonstration of compliance with EPA PSD permit requirements for the Electric Arc Furnace.

Upper Permit Limit: 0.27 pounds per ton

Reference Test Method: EPA RM 7

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 3-20: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 40CFR 60.272a(a)(1), NSPS Subpart AAa**

**Item 3-20.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B Emission Point: 0001B

Process: 001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 3-20.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Particulate emissions from the baghouse shall not exceed 0.0052 gr/dscf. Compliance shall be determined in accordance with the stack test procedures contained in 40 CFR 60.275a.

Upper Permit Limit: 0.0052 grains per dscf

Reference Test Method: EPA RM 5D

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 3-21: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 40CFR 60.272a(a)(2), NSPS Subpart AAa**



**New York State Department of Environmental Conservation**

**Permit ID: 7-0501-00044/00007**

**Facility DEC ID: 7050100044**

**Item 3-21.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B Emission Point: 0001B  
Process: 001

Regulated Contaminant(s):  
CAS No: 0NY075-00-0 PARTICULATES

**Item 3-21.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL  
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Opacity of emissions exiting the baghouse shall not equal or exceed 3% opacity. Visible emission observations shall be conducted at least once per day by an EPA RM 9 certified individual when the furnace is operating in the meltdown and refining period. These observations shall be taken in accordance with EPA RM 9, and, for at least three 6-minute periods, the opacity shall be recorded for any point(s) where visible emissions are observed.

Where it is possible to determine that a number of visible emissions sites relate to only one incident of the visible emissions, only one set of three 6-minute observations will be required. In this case, Method 9 observations must be made for the site of highest opacity that directly relates to the cause (or location) of visible emissions observed during a single incident.

The facility must retain records of daily opacity observations on site for at least 2 years following the date of each measurement. The facility must submit a written report of opacity exceedences to DEC Region 7 and EPA semi-annually. Exceedences are defined as all 6-minute periods during which the average opacity is 3 percent or greater.

Parameter Monitored: OPACITY  
Upper Permit Limit: 3 percent  
Reference Test Method: EPA RM 9  
Monitoring Frequency: DAILY  
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 10/30/2004.



**New York State Department of Environmental Conservation**

**Permit ID: 7-0501-00044/00007**

**Facility DEC ID: 7050100044**

Subsequent reports are due every 6 calendar month(s).

**Condition 3-22: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 231-2.5(a)**

**Item 3-22.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B    Emission Point: 0001B  
Process: 001                      Emission Source: 00002

Regulated Contaminant(s):  
CAS No: 0NY210-00-0    OXIDES OF NITROGEN

**Item 3-22.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NOx emissions shall not exceed 27.32 lb/hr calculated on a 24-hour rolling average basis. The following formula shall be used to convert NOx ppm CEM values from the EAF into lb/hr values:

$$\text{NOx (lb/hr)} = (\text{NOx ppmvd}) \times (\text{Flow scfmd}) \times (60 \text{ min/hr}) \times (46)$$

$$\frac{\text{-----}}{\text{-----}} \times 385.1 \times 10E6$$

where:

- NOx ppmvd = from CEM as volume/volume dry basis
- Flow scfmd = volumetric flow rate in standard cubic feet per minute dry
- 46 = molecular weight for NOx
- 385.1 = conversion from ppm volume basis to ppm weight basis
- 10E6 = conversion of ppm

This limit applies 180 days after the effective date of this permit.

Manufacturer Name/Model Number: NOx CEM



**New York State Department of Environmental Conservation**

**Permit ID: 7-0501-00044/00007**

**Facility DEC ID: 7050100044**

Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 27.32 pounds per hour  
Reference Test Method: 40 CFR 60 App B/F  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 24-HR ROLLING AVG., CALCULATED EA. HR  
AS THE AVG OF THE PAST 24 OPERATING  
HRS  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 10/30/2004.  
Subsequent reports are due every 6 calendar month(s).

**Condition 3-23: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 231-2.5(a)**

**Item 3-23.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B    Emission Point: 0001B  
Process: 001                Emission Source: 00002

Regulated Contaminant(s):  
CAS No: 0NY210-00-0    OXIDES OF NITROGEN

**Item 3-23.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)  
Monitoring Description:

NOx emissions shall not exceed 0.27 lb NOx per ton of steel produced on a 30-day rolling average basis, calculated daily. The daily calculation will be made by dividing the total tons of steel produced each day by the total pounds of NOx emitted for the day as measured and calculated by the NOX CEMS. This limit applies 180 days after the effective date of this permit.

Manufacturer Name/Model Number: NOx CEM  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 0.27 pounds per ton  
Reference Test Method: 40 CFR 60 App B/F  
Monitoring Frequency: DAILY  
Averaging Method: 30-DAY ROLLING AVERAGE  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 10/30/2004.



**New York State Department of Environmental Conservation**

**Permit ID: 7-0501-00044/00007**

**Facility DEC ID: 7050100044**

Subsequent reports are due every 6 calendar month(s).

**Condition 3-24: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 227-1.3(a)**

**Item 3-24.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0RBF1 Emission Point: 0RBF1

**Item 3-24.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL  
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No owner or operator of a combustion installation shall operate the installation in such a way to emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test Method 9 in Appendix A of 40 CFR 60.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: SEMI-ANNUALLY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2004.

Subsequent reports are due every 6 calendar month(s).

**Condition 3-25: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 227-2.4(g)**

**Item 3-25.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0RBF1 Emission Point: 0RBF1

Process: 002 Emission Source: 00005

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**New York State Department of Environmental Conservation**

**Permit ID: 7-0501-00044/00007**

**Facility DEC ID: 7050100044**



**Item 3-25.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx RACT limit for the existing reheat furnace. The reheat furnace is a stationary combustion source.

Upper Permit Limit: 0.15 pounds per million Btus

Reference Test Method: EPA RM 7E

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 3-26: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 227-1.3(a)**

**Item 3-26.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0RBF1 Emission Point: 0RBF2

**Item 3-26.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No owner or operator of a combustion installation shall operate the installation in such a way to emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test Method 9 in Appendix A of 40 CFR 60.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: SEMI-ANNUALLY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2004.

Subsequent reports are due every 6 calendar month(s).



**New York State Department of Environmental Conservation**

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

**Condition 3-27: Compliance Certification**

Effective between the dates of 07/07/2004 and 05/04/2006

**Applicable Federal Requirement: 6NYCRR 231-2.5(a)**

**Item 3-27.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-ORBF1    Emission Point: ORBF2  
Process: 002                      Emission Source: 00006

Regulated Contaminant(s):  
CAS No: 0NY210-00-0    OXIDES OF NITROGEN

**Item 3-27.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NOx emissions shall not exceed 9.85 lbs/hr on a 24-hour rolling basis. The following formula shall be used to convert NOx ppm CEM values from the reheat furnace into lb/hr values:

$$\text{NOx (lb/hr)} = (\text{KCF} \times 20.9 / (20.9 - \text{O}_2)) \times (\text{NG consumption}) \times (1020)$$

where:

$(\text{KCF} \times 20.9 / (20.9 - \text{O}_2))$  = mass emissions of nitrogen oxides (lb/mmBtu)

K = conversion factor for nitrogen oxides =  $1.194\text{E-}7$  ([lb/scf]/ppm)

C = concentration of nitrogen oxides (NOx) (ppmvd)

F = F-factor for natural gas (dscf/mmBtu)

O<sub>2</sub> = exhaust gas oxygen concentration (percent by volume, dry basis)

NG consumption = standard cubic feet of natural gas consumed per hour

1020 = btu per cubic foot of natural gas (from AP-42)

This limit applies 180 days after startup (first fire for any purpose) of the new reheat furnace.

Manufacturer Name/Model Number: NOx CEM

Upper Permit Limit: 9.85 pounds per hour

Reference Test Method: 40 CFR 60 APP F & G



**New York State Department of Environmental Conservation**

**Permit ID: 7-0501-00044/00007**

**Facility DEC ID: 7050100044**

Monitoring Frequency: CONTINUOUS

Averaging Method: 24-HR ROLLING AVG., CALCULATED EA. HR  
AS THE AVG OF THE PAST 24 OPERATING  
HRS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2004.

Subsequent reports are due every 6 calendar month(s).

**Condition 3-28: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 231-2.5(a)**

**Item 3-28.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0RBF1    Emission Point: 0RBF2  
Process: 002                      Emission Source: 00006

Regulated Contaminant(s):

CAS No: 0NY210-00-0    OXIDES OF NITROGEN

**Item 3-28.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Nitrogen Oxides shall not exceed 0.075 lb/MMBTU on a  
24-hour rolling average basis. NOx lb/mmbtu shall be  
calculated using the formula:

$$\text{NOx lb/mmBtu} = \text{KCF} \times 20.9 / (20.9 - \text{O}_2)$$

where:

K = conversion factor for nitrogen oxides = 1.194E-7  
([lb/scf]/ppm)

C = concentration of nitrogen oxides (NOx) (ppmvd)

F = F-factor for natural gas (dscf/mmBtu)

This limit applies 180 days after the startup (first fire  
for any purpose) of the new reheat furnace.

Manufacturer Name/Model Number: NOx CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.075 pounds per million Btus

Reference Test Method: 40 CFR 60 App B/F



**New York State Department of Environmental Conservation**

**Permit ID: 7-0501-00044/00007**

**Facility DEC ID: 7050100044**

Monitoring Frequency: CONTINUOUS

Averaging Method: 24-HR ROLLING AVG., CALCULATED EA. HR  
AS THE AVG OF THE PAST 24 OPERATING  
HRS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2004.

Subsequent reports are due every 6 calendar month(s).

**Condition 3-29: Compliance Certification**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable Federal Requirement: 6NYCRR 231-2.9(a)**

**Item 3-29.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0RBF1 Emission Point: 0RBF2

Process: 002 Emission Source: 00006

**Item 3-29.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

Maximum annual production limit for the rolling mill to  
limit annual NO<sub>x</sub> potential emissions for determining ERCs  
required for offsets for the source project.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: METAL

Upper Permit Limit: 575000 tons per year

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2004.

Subsequent reports are due every 6 calendar month(s).



**STATE ONLY ENFORCEABLE CONDITIONS**

**\*\*\*\* Facility Level \*\*\*\***

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability**

**Item A: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5**

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

**STATE ONLY APPLICABLE REQUIREMENTS**

**The following conditions are state applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.**

**Condition 3-30: Contaminant List**

**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable State Requirement: ECL 19-0301**

**Item 3-30.1:**

Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

**New York State Department of Environmental Conservation**

**Permit ID: 7-0501-00044/00007**

**Facility DEC ID: 7050100044**



CAS No: 000630-08-0  
Name: CARBON MONOXIDE

CAS No: 0NY210-00-0  
Name: OXIDES OF NITROGEN

CAS No: 0NY075-00-0  
Name: PARTICULATES

**Condition 3-31: Unavoidable noncompliance and violations**  
**Effective between the dates of 07/07/2004 and 05/04/2006**

**Applicable State Requirement: 6NYCRR 201-1.4**

**Item 3-31.1:**

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

(a) The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superseded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

**New York State Department of Environmental Conservation**

**Permit ID: 7-0501-00044/00007**

**Facility DEC ID: 7050100044**



(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

**Condition 61: Air pollution prohibited**  
**Effective between the dates of 05/04/2001 and 05/04/2006**

**Applicable State Requirement: 6NYCRR 211.2**

**Item 61.1:**

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.