

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

Effective Date:

Expiration Date:

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

Contact: Jason Bradley Curtis  
25 Quarry Road  
Auburn, NY 13021  
(315) 253-4561

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

Contact: Jonah Simons  
25 Quarry Road  
Auburn, NY 13021  
(315) 258-4239

Description:

This is a renewal of the current Title V facility permit. There are no major changes to the facility configuration at this time. Additional regulations have been added under 6NYCRR 231-11 for minor modifications 2 and 3 under permit renewal 1.

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: ELIZABETH A TRACY  
615 ERIE BLVD W  
SYRACUSE, NY 13204-2400

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

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**Notification of Other State Permittee Obligations**

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

Department  
the  
operation  
in  
permit.  
damages to  
omissions,

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 compliance permittee's undertaking of activities in connection with, or and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any 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

permit,  
respect

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

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that

The permittee is responsible for obtaining any other permits, approvals, 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

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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.

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**PAGE LOCATION OF CONDITIONS**

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**DEC GENERAL CONDITIONS**

**General Provisions**

- 5 1 Facility Inspection by the Department
- 5 2 Relationship of this Permit to Other Department Orders and Determinations
- 5 3 Applications for permit renewals, modifications and transfers
- 6 4 Permit modifications, suspensions or revocations by the Department

**Facility Level**

- 6 5 Submission of application for permit modification or renewal-REGION 7 HEADQUARTERS

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**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: Applications for permit renewals, modifications and transfers**

**Applicable State Requirement: 6 NYCRR 621.11**

**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 the expiration of permits for Title V and State Facility Permits.

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**Item 3.3**

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

**Condition 4: Permit modifications, suspensions or revocations by the Department**  
**Applicable State Requirement: 6 NYCRR 621.13**

**Item 4.1:**

The Department reserves the right to exercise all available authority 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.

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

**Condition 5: Submission of application for permit modification or renewal-REGION 7 HEADQUARTERS**  
**Applicable State Requirement: 6 NYCRR 621.6 (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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**Permit Under the Environmental Conservation Law (ECL)**

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: NUCOR STEEL AUBURN INC  
25 QUARRY RD  
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

Permit Effective Date:

Permit Expiration Date:

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**PAGE LOCATION OF CONDITIONS**

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**FEDERALLY ENFORCEABLE CONDITIONS**

**Facility Level**

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9	2	6 NYCRR 201-6.4 (a) (7): Fees
9	3	6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
10	4	6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
10	5	6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
12	6	6 NYCRR 201-6.4 (e): Compliance Certification
14	7	6 NYCRR 202-2.1: Compliance Certification
15	8	6 NYCRR 202-2.5: Recordkeeping requirements
15	9	6 NYCRR 215.2: Open Fires - Prohibitions
16	10	6 NYCRR 200.7: Maintenance of Equipment
17	11	6 NYCRR 201-1.7: Recycling and Salvage
17	12	6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
17	13	6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
17	14	6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
18	15	6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
18	16	6 NYCRR 201-6.4 (a) (8): Right to Inspect
18	17	6 NYCRR 202-1.1: Required Emissions Tests
19	18	40 CFR Part 68: Accidental release provisions.
19	19	40CFR 82, Subpart F: Recycling and Emissions Reduction
20	20	6 NYCRR Subpart 201-6: Emission Unit Definition
21	21	6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
21	22	6 NYCRR 201-6.4 (f): Operational Flexibility
21	23	6 NYCRR 201-6.4 (f): Compliance Certification
23	24	6 NYCRR Subpart 201-7: Facility Permissible Emissions
24	25	6 NYCRR 201-7.1: Facility Permissible Emissions
24	*26	6 NYCRR 201-7.1: Capping Monitoring Condition
26	27	6 NYCRR 211.2: Visible Emissions Limited
26	28	6 NYCRR 216.3: Particulate emission limit
26	29	6 NYCRR 216.4: Compliance Certification
27	30	6 NYCRR 216.5: Compliance Certification
28	31	6 NYCRR 230.4 (a): Compliance Certification
28	32	6 NYCRR 231-11.2 (b): Compliance Certification
29	33	6 NYCRR 231-11.2 (c): Compliance Certification
31	34	40CFR 60, NSPS Subpart A: Compliance Certification
32	35	40CFR 63, Subpart A: Compliance Certification
33	36	40CFR 63, Subpart CCCCCC: Compliance Certification
33	37	40CFR 63.11115, NESHAP Subpart CCCCCC: General duties to minimize emissions
34	38	40CFR 63.11116, NESHAP Subpart CCCCCC: Requirements for facilities with monthly throughput of less than 10,000 gallons of



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gasoline

- 34 39 40CFR 63.10685(a)(1), Subpart YYYYY: Compliance Certification
- 35 40 40CFR 63.10685(b)(1), Subpart YYYYY: Compliance Certification
- 36 41 40CFR 63.10685(c), Subpart YYYYY: Compliance Certification

**Emission Unit Level**

- 37 42 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 38 43 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

**EU=U-0001B**

- 40 44 40CFR 52.21, Subpart A: Compliance Certification
- 41 45 40CFR 60.275a(e), NSPS Subpart AAa: Compliance Certification

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

- 41 46 40CFR 60.272a(a)(3), NSPS Subpart AAa: Compliance Certification
- 43 47 40CFR 60.272a(b), NSPS Subpart AAa: Compliance Certification
- 44 48 40CFR 60.274a(b), NSPS Subpart AAa: Compliance Certification
- 44 49 40CFR 60.274a(h), NSPS Subpart AAa: Compliance Certification

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

- 45 50 40CFR 60.274a(d), NSPS Subpart AAa: Compliance Certification
- 46 51 40CFR 60.276a(a), NSPS Subpart AAa: Compliance Certification
- 47 52 40CFR 60.276a(a), NSPS Subpart AAa: Compliance Certification

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

- 47 \*53 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 49 54 6 NYCRR Subpart 231-8: Compliance Certification
- 49 55 6 NYCRR Subpart 231-8: Compliance Certification
- 50 56 6 NYCRR Subpart 231-8: Compliance Certification
- 51 57 40CFR 52.21, Subpart A: Compliance Certification
- 51 58 40CFR 52.21, Subpart A: Compliance Certification
- 52 59 40CFR 52.21, Subpart A: Compliance Certification
- 53 60 40CFR 52.21, Subpart A: Compliance Certification
- 54 61 40CFR 52.21, Subpart A: Compliance Certification
- 55 62 40CFR 52.21, Subpart A: Compliance Certification
- 56 63 40CFR 52.21, Subpart A: Compliance Certification
- 57 64 40CFR 52.21, Subpart A: Compliance Certification
- 58 65 40CFR 52.21, Subpart A: Compliance Certification
- 59 66 40CFR 52.21, Subpart A: Compliance Certification
- 60 67 40CFR 52.21, Subpart A: Compliance Certification

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

- 61 68 6 NYCRR 231-2.9 (a): Compliance Certification
- 61 69 40CFR 60.272a(a)(1), NSPS Subpart AAa: Compliance Certification
- 62 70 40CFR 60.272a(a)(2), NSPS Subpart AAa: Compliance Certification

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

- 63 71 6 NYCRR 216.4: Compliance Certification

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- 64 72 40CFR 52.21, Subpart A: Compliance Certification
- 65 73 40CFR 52.21, Subpart A: Compliance Certification
- 67 74 40CFR 52.21, Subpart A: Compliance Certification
- 68 75 40CFR 52.21, Subpart A: Compliance Certification
- 69 76 40CFR 52.21, Subpart A: Compliance Certification
- 70 77 40CFR 52.21, Subpart A: Compliance Certification
- 70 78 40CFR 52.21, Subpart A: Compliance Certification
- 71 79 40CFR 52.21, Subpart A: Compliance Certification

**EU=U-ORBF1,EP=0RBF2,Proc=002,ES=00006**

- 72 80 6 NYCRR 231-2.9 (a): Compliance Certification

**EU=U-MATLH**

- 73 81 6 NYCRR 211.2: Compliance Certification

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 76 82 ECL 19-0301: Contaminant List
- 77 83 6 NYCRR 201-1.4: Malfunctions and Start-up/Shutdown Activities
- 78 84 6 NYCRR 201-1.15: Requirement to Commence Construction
- 78 85 6 NYCRR 201-6.5 (a): CLCPA Applicability
- 78 86 6 NYCRR 211.1: Air pollution prohibited
- 79 87 6 NYCRR 212-2.1: Compliance Demonstration

NOTE: \* preceding the condition number indicates capping.

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**FEDERALLY ENFORCEABLE CONDITIONS**

Renewal 2/DRAFT

\*\*\*\* 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: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 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 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.
- Item B: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.2 (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 C: Certification by a Responsible Official - 6 NYCRR 201-6.2 (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 D: Requirement to Comply With All Conditions - 6 NYCRR 201-6.4 (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 E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.4 (a) (3)**

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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 F: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4 (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 G: Property Rights - 6 NYCRR 201-6.4 (a) (6)**

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

**Item H: Severability - 6 NYCRR 201-6.4 (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 I: Permit Shield - 6 NYCRR 201-6.4 (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

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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 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 J: Reopening for Cause - 6 NYCRR 201-6.4 (i)**

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

i. When additional applicable requirements under the act become applicable to a title V facility with a remaining permit term of 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 the 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 section 201- 6.6 of this Subpart.

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.

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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 a shorter time period in the case of an emergency.

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

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.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS  
SUBJECT TO ANNUAL CERTIFICATIONS AT ALL TIMES**

**The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements at all times.**







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definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

- (1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
- (2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
- (3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.
- (4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.2(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. In order to have a

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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.

Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent 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) and one copy shall be sent to the Administrator (or his or her representative). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.4(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 6: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 201-6.4 (e)**

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**Item 6.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 6.2:**

Compliance Certification shall include the following monitoring:

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 annual compliance certifications may be submitted electronically or physically. Electronic reports shall be

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submitted using the Department’s Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent 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) and one copy shall be sent to the Administrator (or his or her representative). The mailing addresses for the above referenced persons are:

Chief – Air Compliance Branch  
 USEPA Region 2 DECA/ACB  
 290 Broadway, 21st Floor  
 New York, NY 10007

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer  
 NYSDEC Region 7 Headquarters  
 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 1/30/2022.  
 Subsequent reports are due on the same day each year

**Condition 7: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 7.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 7.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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Emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year. Statements are to be submitted electronically or mailed to: New York State Department of Environmental Conservation, Division of Air Resources, Bureau of Air Quality Planning, 625 Broadway, Albany NY 12233-3251

Monitoring Frequency: ANNUALLY  
 Reporting Requirements: ANNUALLY (CALENDAR)  
 Reports due by April 15th for previous calendar year

**Condition 8: Recordkeeping requirements**  
**Effective for entire length of Permit**

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

**Item 8.1:**

(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 9: Open Fires - Prohibitions**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 215.2**

**Item 9.1:**

Except as allowed by Title 6 NYCRR Section 215.3, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

**Item 9.2**

Per Section 215.3, burning in an open fire, provided it is not contrary to other law or regulation, will be allowed as follows:

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.
- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.

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- (d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.
- (e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.
- (f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.
- (g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.
- (h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.
- (i) Prescribed burns performed according to Part 194 of this Title.
- (j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.
- (k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.
- (l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS  
SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE**

**The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements only if effectuated during the reporting period.**

**[NOTE: The corresponding annual compliance certification for those conditions not effectuated during the reporting period shall be specified as "not applicable".]**

**Condition 10: Maintenance of Equipment  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 200.7**

**Item 10.1:**

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Any person who owns or operates an air contamination 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.

**Condition 11: Recycling and Salvage**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 201-1.7**

**Item 11.1:**

Where practical, the owner or operator of an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of the ECL.

**Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 201-1.8**

**Item 12.1:**

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.

**Condition 13: Exempt Sources - Proof of Eligibility**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 201-3.2 (a)**

**Item 13.1:**

The owner or operator of an emission source or activity that is listed as being exempt may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all records necessary for demonstrating compliance with this Subpart on-site for a period of five years, and make them available to representatives of the department upon request.

**Condition 14: Trivial Sources - Proof of Eligibility**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 201-3.3 (a)**

**Item 14.1:**

The owner or operator of an emission source or activity that is listed as being trivial in this Section may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain

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all required records on-site for a period of five years and make them available to representatives of the department upon request.

**Condition 15: Requirement to Provide Information**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (4)**

**Item 15.1:**

The owner and/or operator 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. Upon request, the permittee shall also furnish to the department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

**Condition 16: Right to Inspect**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (8)**

**Item 16.1:**

The department or an authorized representative shall be allowed upon presentation of credentials and other documents as may be required by law to:

- (i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart 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 emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and
- (iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

**Condition 17: Required Emissions Tests**  
**Effective for entire length of Permit**

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



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**Item 17.1:**

For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the commissioner may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time.

**Condition 18: Accidental release provisions.  
Effective for entire length of Permit**

**Applicable Federal Requirement:40 CFR Part 68**

**Item 18.1:**

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:

Risk Management Plan Reporting Center  
C/O CSC  
8400 Corporate Dr  
Carrollton, Md. 20785

**Condition 19: Recycling and Emissions Reduction  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 82, Subpart F**

**Item 19.1:**

The permittee shall comply with all applicable provisions of 40 CFR Part 82.

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

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**Condition 20: Emission Unit Definition**  
**Effective for entire length of Permit**

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

**Item 20.1:**

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

Emission Unit: U-0001B

Emission Unit Description:

Melt Shop & Billet Casting operations, including raw material handling, melting in an Electric Arc Furnace (EAF), slag removal, and billet casting, with incidental indoor fugitive emissions.

Building(s): BH  
CA  
MS

**Item 20.2:**

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

Emission Unit: U-ORBF1

Emission Unit Description:

Billet reheating and rolling mill operations, with incidental indoor fugitive emissions.

Building(s): BS  
RF  
RM

**Item 20.3:**

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

Emission Unit: U-MATLH

Emission Unit Description:

Fugitive emissions from outdoor steel processes including but not limited to (1) raw material & slag handling, separation, cutting, screening, storage & transport, and (2) roadways.

**Item 20.4:**

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

Emission Unit: U-ROLLM

Emission Unit Description:

Billet rolling operations following reheat furnace. Fugitive VOC and PM emissions from rolling oils are the main emissions from this source.

Building(s): RM

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**Item 20.5:**

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

Emission Unit: U-TOWER

Emission Unit Description:

Two individual contact cooling towers which will provide cooling water for the caster (COOL2) and rolling mill (COOL3) separately.

Building(s): CA

RM

**Condition 21: Progress Reports Due Semiannually  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 201-6.4 (d) (4)**

**Item 21.1:**

Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by the department. 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.

**Condition 22: Operational Flexibility  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 201-6.4 (f)**

**Item 22.1:**

A permit modification is not required for changes that are provided for in the permit. Such changes include approved alternate operating scenarios and changes that have been submitted and approved pursuant to an established operational flexibility protocol and the requirements of this section. Each such change cannot be a modification under any provision of Title I of the Clean Air Act or exceed, or cause the facility to exceed, an emissions cap or limitation in the permit. The facility owner or operator must incorporate all changes into any compliance certifications, record keeping, and/or reporting required by the permit.

**Condition 23: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 201-6.4 (f)**

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**Item 23.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 23.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The objective of this Plan is to maximize operational flexibility by building capability into the Nucor Facility Title V Permit for the facility to make administrative and/or minor changes following a pre-established protocol as allowed for in 6 NYCRR, Part 201- 6.4(f). As provided under 6 NYCRR Part 201-6.4(f)(2), changes made under an approved protocol are not subject to the Title V permit modification provisions under 6 NYCRR Part 201-6.6.

This plan does not address those types of changes that would invoke the Part 201-6.6(d) "Significant Permit Modification". Rather, it addresses changes that qualify, as minor modifications pursuant to the criteria specified by 6 NYCRR, Part 201-6.6(c)(1)(i) and (ii):

- (1) Do not violate any applicable requirement;
- (2) Do not involve significant changes to existing monitoring, reporting, or record keeping requirements in the permit and are not otherwise a significant change in the permit.

Protocol for Changes

(1) Certain changes which meet the criteria under (i) - (iii) below may be conducted without prior approval of the Department and shall not require modification of the permit. The facility owner and/or operator must however maintain records of the date and description of such changes and make such records available for review by Department representatives upon request.

- (i) changes that do not cause emissions to exceed any emission limitation contained in regulations or applicable requirements under this Chapter;
- (ii) changes which do not cause the subject emission unit, emission source, process, or emission point to become subject to any additional regulations or requirements under this Chapter;
- (iii) changes that do not seek to establish or modify a federally-enforceable emission cap or limit.

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(2) In addition to the record keeping required under (1) above, the permittee must notify the Department in writing at least 30 calendar days in advance of making changes involving:

- (i) the installation or relocation of any emission source, process, or emission point within a facility;
- (ii) the emission of any air pollutant not previously authorized or emitted in accordance with a permit issued by the Department;
- (iii) the installation or alteration of any air cleaning installation, device or control equipment.

(3) The Department may require a permit modification, in order to impose new applicable requirements or special permit conditions if it determines that changes proposed pursuant to notification under (2) above do not meet the criteria under (1) or the change may have a significant air quality impact. In such cases the Department may require that the permittee not undertake the proposed change until it completes a more detailed review of the potential air quality impacts and/or applicable requirements. The Department shall respond to the permittee in writing with such a determination within 15 days of receipt of the 30 day advance notification from the permittee. The Department's determination shall include a listing of information necessary to further review the proposed change.

On an annual basis, the facility must submit a summary of all changes made under the Protocol for Changes during that year. This summary of projects will be any changes to the facility that are covered under the minor modification provisions of 6NYCRR 201-6.6(c). This summary is to be submitted as part of the annual compliance certification pursuant to 6 NYCRR 201-6.4(e).

Monitoring Frequency: ANNUALLY  
 Reporting Requirements: ANNUALLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 Subsequent reports are due every 12 calendar month(s).

**Condition 24: Facility Permissible Emissions**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR Subpart 201-7**

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**Item 24.1:**

The sum of emissions from the emission units specified in this permit shall not equal or exceed the following  
Potential To Emit (PTE) rate for each regulated contaminant:

CAS No: 007439-92-1  
Name: LEAD

PTE: 1,072 pounds per year

**Condition 25: Facility Permissible Emissions  
Effective for entire length of Permit****Applicable Federal Requirement:6 NYCRR 201-7.1****Item 25.1:**

The sum of emissions from the emission units specified in this permit shall not equal or exceed the following  
Potential To Emit (PTE) rate for each regulated contaminant:

CAS No: 0NY998-00-0  
Name: VOC

PTE: 98,000 pounds per year

**Condition 26: Capping Monitoring Condition  
Effective for entire length of Permit****Applicable Federal Requirement:6 NYCRR 201-7.1****Item 26.1:**

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR 216.5 (a) (2)

**Item 26.2:**

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

**Item 26.3:**

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.

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**Item 26.4:**

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

**Item 26.5:**

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

**Item 26.6:**

The Compliance Certification activity will be performed for the facility:  
The Compliance Certification applies to:

Emission Unit: U-0001B

Emission Unit: U-ORBF1

Regulated Contaminant(s):  
CAS No: 0NY998-00-0      VOC

**Item 26.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Facility-wide emissions of volatile organic compounds shall not exceed 49 tons/year, based on a 12 month rolling average. Emissions will be calculated using site-specific emissions factors based on the most recent stack test for the electric arc furnace which must be conducted once during the term of the permit. VOC emissions will be calculated for the reheat furnace using an AP-42 factor and natural gas consumption. Rolling mill emissions will be calculated using a department approved emissions factor along with oil purchase records. The facility must also account for 1.2 tons per year VOC emissions from miscellaneous sources.

Parameter Monitored: VOC

Upper Permit Limit: 49 tons per year

Reference Test Method: EPA Reference Method 25A

Monitoring Frequency: Once every five years

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

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Reports due 30 days after the reporting period.  
Subsequent reports are due every 12 calendar month(s).

**Condition 27: Visible Emissions Limited**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 211.2**

**Item 27.1:**

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.

**Condition 28: Particulate emission limit**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 216.3**

**Item 28.1:**

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 29: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 216.4**

**Item 29.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 29.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The following opacity limits are applicable to fugitive emissions from iron and/or steel processes which emanate from building openings:

Fugitive emissions from the EAF during tapping:

40%

Fugitive emissions during charging of the EAF: 20%

All other iron and/or steel industry sources: 20%

To demonstrate compliance with this requirement, NUCOR shall conduct observations of these processes upon Department request.



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Compliance with the opacity standards will be determined by observing visible emissions discharged during the operation of the iron and/or steel process. The observer must stand at a distance sufficient to provide a clear view of the visible emissions with the sun oriented in the 140° sector of his back. The opacity of emissions will be computed by averaging the results of 24 consecutive opacity observations made at 15-second intervals. For cyclic processes that generate emissions for less than six minutes per cycle, observations will be made only during the operation of the process when visible emissions are generated. A sufficient number of process cycles must be observed to accumulate the required minimum of 24 consecutive opacity readings.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 30: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 216.5**

**Item 30.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-0001B

Emission Unit: U-0RBF1

Regulated Contaminant(s):

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

**Item 30.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility is a major NO<sub>x</sub> emission source since facility annual PTE for NO<sub>x</sub> emissions is greater than 100 tons/year. Therefore, the facility is subject to the Part 216.5 NO<sub>x</sub> RACT requirements for the Electric Arc Furnace

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(EAF) and the reheat furnace. However, NOx emissions are currently limited by more stringent PSD/LAER requirements contained in this permit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 31: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 230.4 (a)**

**Item 31.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 31.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner and/or operator of a gasoline dispensing site shall maintain records showing the quantity of all gasoline delivered to the site. These records must be kept at the gasoline dispensing site for at least 2 years, and must be made available to the department upon request.

The sum of all gasoline deliveries to a gasoline dispensing site during every 12 consecutive months must be used to determine whether the requirements of Part 230 apply. Once a gasoline dispensing site becomes subject to the requirements of Part 230 because its annual gasoline throughput exceeds an applicability level, subsequent decreases in gasoline deliveries or throughput do not excuse a site owner from compliance with requirements of this Part for that applicability level.

Monitoring Frequency: MONTHLY

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 32: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 231-11.2 (b)**

**Item 32.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 32.2:**

Compliance Certification shall include the following monitoring:

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For a modification with a project emission potential that does not utilize the emissions exclusion allowed under section 231-4.1(b)(41)(i)(c) of this Part and which is less than 50 percent of the applicable significant project threshold in Table 3, Table 4 or Table 6 of Subpart 231-13 of this Part, or for a modification with a project emission potential which when added to emissions excluded in accordance with clause 231-4.1(b)(41)(i)(c) of this Part is less than 50 percent of the applicable significant project threshold in Table 3, Table 4 or Table 6 of Subpart 231-13 of this Part, the facility owner or operator, in addition to complying with any requirements under Part 201 of this Title, must maintain the following information for a minimum of five years:

- (1) A description of the modification.
- (2) An identification of each new or modified emission source(s) including the associated processes and emission unit.
- (3) The calculation of the project emission potential for each modified emission source(s) including supporting documentation.
- (4) The date the modification commenced operation.

These recordkeeping requirements apply to exempt and trivial activities but do not affect their exempt or trivial permitting status under Subpart 201-3 of this Title. The facility must submit these records to the Department, upon the Department's request.

Monitoring Frequency: ANNUALLY

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 33: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 231-11.2 (c)**

**Item 33.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 33.2:**

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Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For a modification with a project emission potential which is less than 50 percent of the applicable significant project threshold in Table 3, Table 4 or Table 6 of Subpart 231-13 of this Part, but equals or exceeds 50 percent of the applicable significant project threshold when emissions excluded in accordance with clause 231-4.1(b)(41)(i)(c) of this Part are added and is less than the applicable significant project threshold, or for a modification with a project emission potential which equals or exceeds 50 percent of the applicable significant project threshold in Table 3, Table 4 or Table 6 of Subpart 231-13 of this Part and is less than the applicable significant project threshold, the facility owner or operator must submit an application to modify the facility permit under the minor permit provisions of Subpart 201-6 of this Title or obtain a preconstruction permit under the provisions of Subpart 201-6 of this Title, and must:

(1) maintain the following information for a minimum of five years:

(i) a description of the modification.

(ii) an identification of each new or modified emission source(s) including the associated processes and emission unit.

(iii) the calculation of the project emission potential for each modified emission source(s) including supporting documentation.

(iv) the date the modification commenced operation.

(2) monitor the emissions of each regulated NSR contaminant from the emission source(s) that will increase as a result of the modification, and calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five years following resumption of regular operations after the modification, or for a period of 10 years following resumption of regular operations after the change if the modification increases the design capacity of or potential to emit the regulated NSR contaminant at such emission source(s); and

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(3) submit a report to the department within 30 days after the end of each year during which records must be generated in accordance with Paragraph 231-11.2(c)(2) of this Part. The report must contain:

(i) the name, address, and telephone number of the major facility.

(ii) the annual emissions as calculated pursuant to Paragraph (c)(2) of this Section.

(iii) a comparison of actual annual emissions to the projected actual emissions and, if applicable, an explanation as to why the actual annual emissions exceeded the projected actual emissions.

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 12 calendar month(s).

**Condition 34: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 34.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 34.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners or operators of affected sources which are subject to 40 CFR Part 60 (New Source Performance Standards) must comply with the applicable requirements of 40 CFR 60 Subpart A. NUCOR is subject to the following NSPS categories and is therefore subject to the requirements of 40 CFR Subpart A:

40 CFR 60 Subpart AAa (Standards Of Performance For Steel Plants: Electric Arc Furnaces And Argon-Oxygen Decarburization Vessels Constructed After August 17, 1983)

Subpart A (the General Provisions for the NSPS) contains

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requirements for performance testing, monitoring, notification, recordkeeping, reporting, and control devices that may apply to the source.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 12 calendar month(s).

**Condition 35: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 40 CFR 63, Subpart A**

**Item 35.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 35.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners or operators of affected sources which are subject to 40 CFR Part 63 must comply with the applicable requirements of 40 CFR 63 Subpart A, as defined by the specific MACT regulation. NUCOR is subject to the requirements of 40 CFR 63 Subpart A as defined in the following MACT tables:

40 CFR 63 Subpart YYYYYY, Table 1 [§63.10690(a)]

40 CFR 63 Subpart CCCCCC, Table 3 [§63.11130]

Subpart A (the General Provisions for the NESHAP for Source Categories regulations) contains requirements for performance testing, monitoring, notification, recordkeeping, reporting, and control devices that may apply to the source. For any affected source which uses a control device to comply with the emission standard, the facility must develop and implement a written startup, shutdown and malfunction (SSM) plan which (1) describes in detail procedures for operating and maintaining the source during periods of SSM, (2) includes a program of corrective action for malfunctioning process, air pollution control equipment, and monitoring equipment used to comply with the relevant standard. [See 40 CFR 63.6(e)(3) (I through viii) for specific requirements regarding SSM plans].

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 12 calendar month(s).

**Condition 36: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 63, Subpart CCCCC**

**Item 36.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 36.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

NUCOR shall maintain records which demonstrate that the throughput for the gasoline dispensing facility is less than the 10,000-gallon per month. In accordance with 63.11116(b), NUCOR must make records of gasoline throughput available within 24 hours of a request by the Administrator.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 37: General duties to minimize emissions  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 63.11115, NESHAP Subpart CCCCC**

**Item 37.1:**

Each owner or operator of a gasoline dispensing facility that is an affected source under Subpart CCCCC must comply with the requirements of paragraphs (a) and (b).

(a) The owner or operator must, at all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include,

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but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(b) The owner or operator must keep applicable records and submit reports as specified in 40 CFR 63.11125(d) and 40 CFR 63.11126(b).

**Condition 38: Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline Effective for entire length of Permit**

**Applicable Federal Requirement: 40 CFR 63.11116, NESHAP Subpart CCCCCC**

**Item 38.1:**

The owner or operator must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:

- (1) Minimize gasoline spills;
- (2) Clean up spills as expeditiously as practicable;
- (3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
- (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

The owner or operator is not required to submit notifications or reports as specified in 40 CFR 63.11125, 40 CFR 63.11126, or Subpart A of Part 63, but he/she must have records available within 24 hours of a request by the Administrator to document the gasoline throughput.

The owner or operator must comply with the requirements of Subpart CCCCCC by the applicable dates specified in 40 CFR 63.11113.

Portable gasoline containers that meet the requirements of 40 CFR Part 59, Subpart F, are considered acceptable for compliance with paragraph (3) above.

**Condition 39: Compliance Certification Effective for entire length of Permit**

**Applicable Federal Requirement: 40 CFR 63.10685(a)(1), Subpart YYYYYY**

**Item 39.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 39.2:**



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Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For the production of steel other than leaded steel, you must maintain compliance with the department approved pollution prevention plan submitted June 23, 2008 for metallic scrap selection and inspection to minimize the amount of chlorinated plastics, lead, and free organic liquids that is charged to the furnace. You must operate according to the plan as submitted during the review and approval process, operate according to the approved plan at all times after approval, and address any deficiency identified by the permitting authority within 60 days following disapproval of a plan. You may request approval to revise the plan and may operate according to the revised plan unless and until the revision is disapproved by the permitting authority. You must provide training on the plan's requirements to all plant personnel with materials acquisition or inspection duties.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 40: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 40CFR 63.10685(b)(1), Subpart YYYYY**

**Item 40.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 40.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must follow the procedures for removal of mercury switches in accordance with the department approved site-specific plan for mercury switches submitted June 23, 2008 and the provisions of 40 CFR 63.10685(b)(1) or by purchasing motor vehicle scrap only from scrap providers who participate in a program for removal of mercury switches that has been approved by the Administrator following the provisions of 40 CFR 63.10685(b)(2) or by purchasing specialty metal scrap not

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reasonably expected to contain mercury switches under the provisions of 40 CFR 63.10685(b)(3) or (4).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 41: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement: 40CFR 63.10685(c), Subpart YYYYY**

**Item 41.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 41.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must keep records to demonstrate compliance with the requirements of the pollution prevention plan required by §63.10685(a)(1), the use of only restricted scrap in §63.10685(a)(2), and for mercury in 63.10685 (b)(1) through (3) as applicable. The facility must keep records documenting compliance with §63.10685(b)(4) for scrap that does not contain motor vehicle scrap.

(1) Facilities subject to the requirements for a site-specific plan for mercury under §63.10685(b)(1) must:

(i) Maintain records of the number of mercury switches removed or the weight of mercury recovered from the switches and properly managed, the estimated number of vehicles processed, and an estimate of the percent of mercury switches recovered; and

(ii) Submit semiannual reports of the number of mercury switches removed or the weight of mercury recovered from the switches and properly managed, the estimated number of vehicles processed, an estimate of the percent of mercury switches recovered, and a certification that the recovered mercury switches were recycled at RCRA-permitted facilities. The semiannual reports must include a certification that you have conducted inspections or taken

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other means of corroboration as required under paragraph (b)(1)(ii)(C) of this section. You may include this information in the semiannual compliance reports required under paragraph (c)(3) of this section.

(2) If the facility is subject to the option for approved mercury programs under §63.10685(b)(2), the facility must maintain records identifying each scrap provider and documenting the scrap provider's participation in an approved mercury switch removal program. If you purchase motor vehicle scrap from a broker, you must maintain records identifying each broker and documentation that all scrap provided by the broker was obtained from other scrap providers who participate in an approved mercury switch removal program.

(3) The facility must submit semiannual compliance reports to the Administrator for the control of contaminants from scrap according to the requirements in §63.10(e). The report must clearly identify any deviation from the requirements of §63.10685(a) and (b) and the corrective action taken. The report must identify which compliance option in §63.10685(b) applies to each scrap provider, contract, or shipment.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 12 calendar month(s).

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

**Condition 42: Emission Point Definition By Emission Unit Effective for entire length of Permit**

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

**Item 42.1:**

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.): 4756.818	NYTME (km.): 371.8	Building: BH

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Emission Point: 0001M			
Height (ft.): 76	Length (in.): 1140	Width (in.): 108	
NYTMN (km.): 4756.7	NYTME (km.): 371.6	Building: CA	
Emission Point: 0001R			
Height (ft.): 72	Length (in.): 120	Width (in.): 48	
NYTMN (km.): 4756.7	NYTME (km.): 371.6	Building: CA	
Emission Point: 0001S			
Height (ft.): 35	Diameter (in.): 30		
NYTMN (km.): 4756.7	NYTME (km.): 371.6	Building: CA	

**Item 42.2:**

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

Emission Unit: U-ORBF1			
Emission Point: ORBF2			
Height (ft.): 147	Diameter (in.): 76		
NYTMN (km.): 4756.7	NYTME (km.): 371.6	Building: BS	

**Item 42.3:**

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

Emission Unit: U-TOWER			
Emission Point: 0005A			
Height (ft.): 23	Diameter (in.): 162		
NYTMN (km.): 4756.673	NYTME (km.): 371.573	Building: RM	
Emission Point: 0005B			
Height (ft.): 23	Diameter (in.): 162		
NYTMN (km.): 4756.673	NYTME (km.): 371.573	Building: RM	
Emission Point: 0006A			
Height (ft.): 30	Diameter (in.): 94		
NYTMN (km.): 4756.751	NYTME (km.): 371.585	Building: RM	
Emission Point: 0006B			
Height (ft.): 30	Diameter (in.): 94		
NYTMN (km.): 4756.756	NYTME (km.): 371.584	Building: RM	

**Condition 43: Process Definition By Emission Unit  
Effective for entire length of Permit**

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

**Item 43.1:**

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

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Emission Unit: U-0001B

Process: 001

Source Classification Code: 3-03-009-04

Process Description:

Scrap steel is melted in the Electric Arc Furnace. Other raw materials (including but not limited to tires) are added to impart physical characteristics to the steel. Molten steel is tapped from the furnace and continuously cast into billets.

Emissions from the EAF which occur during melting and refining are primarily captured by Direct Shell Evacuation. Emissions which occur during other phases of the process, (i.e., charging, slagging, and tapping) emissions are primarily captured by the EAF canopy hood and closed building roof. The Direct Shell Evacuation and canopy hood convey emissions to a fabric filter baghouse, which exhausts to EP 0001B.

Emissions from the casting equipment are primarily captured via the Casting canopy exhaust. Steam emissions are directly exhausted via EP 0001S (an aggregate of two identical stacks). Fugitive emissions from this operation may also be exhausted via EP 0001M (caster building monovent) as well as EP 0001R (two caster runout roof monovents).

Emission Source/Control: 00001 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 00002 - Process

**Item 43.2:**

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

Emission Unit: U-ORBF1

Process: 002

Source Classification Code: 3-03-009-33

Process Description:

Steel billets are reheated in a natural gas fired Reheating Furnace prior to rolling into finished products.

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

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**Item 43.3:**

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

Emission Unit: U-MATLH

Process: 004

Source Classification Code: 3-03-009-98

Process Description:

Fugitive emissions from outdoor steel processes including slag and millscale storage and handling.

Emission Source/Control: OUTDR - Process

**Item 43.4:**

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

Emission Unit: U-ROLLM

Process: 005

Source Classification Code: 3-03-009-31

Process Description:

Hot rolling of steel billets following reheat furnace.

Emission Source/Control: ROLLM - Process

**Item 43.5:**

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

Emission Unit: U-TOWER

Process: 003

Source Classification Code: 3-85-001-01

Process Description:

Contact cooling towers provide cooling water for both the caster (COOL2) and rolling mill (COOL3).

Emission Source/Control: COOL2 - Process

Design Capacity: 3,200 gallons per minute

Emission Source/Control: COOL3 - Process

Design Capacity: 2,365,200,000 gallons per year

**Condition 44: Compliance Certification  
Effective for entire length of Permit**

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

**Item 44.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

**Item 44.2:**

Compliance Certification shall include the following monitoring:

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

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

Monitoring Description:

The facility shall only charge scrap to the electric arc furnace at a rate not to exceed 110 tons per hour for each batch.

Work Practice Type: PROCESS MATERIAL THRUPUT

Upper Permit Limit: 110 tons per hour

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -  
SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 45: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 40CFR 60.275a(e), NSPS Subpart AAa**

**Item 45.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

**Item 45.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Method 5 shall be used for negative-pressure fabric filters and other types of control devices and Method 5D shall be used for positive-pressure fabric filters to determine the particulate matter concentration and volumetric flow rate of the effluent gas. The sampling time and sample volume for each run shall be at least 4 hours and 4.50 dscm (160 dscf) and, when a single EAF or AOD vessel is sampled, the sampling time shall include an integral number of heats.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 46: Compliance Certification**  
**Effective for entire length of Permit**

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**Applicable Federal Requirement: 40CFR 60.272a(a)(3), NSPS Subpart AAa****Item 46.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

Process: 001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 46.2:**

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, due solely to the operation of any affected 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)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)



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Reports due 30 days after the reporting period.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 47: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 47.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

Process: 001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 47.2:**

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

Monitoring Frequency: WEEKLY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

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Reports due 30 days after the reporting period.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 48: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 48.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

Process: 001

**Item 48.2:**

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 +/-15% of the levels 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.

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

**Condition 49: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 49.1:**

The Compliance Certification activity will be performed for:

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Emission Unit: U-0001B  
 Process: 001

**Item 49.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

During any performance test required under 40CFR 60.8 and for any report thereof required by 40CFR 60.276a(f) , or to determine compliance with 40CFR 60.272a(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: (3) Control device operation log: (4) Continuous monitor or Reference Method 9 data.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 12 calendar month(s).

**Condition 50: Compliance Certification  
 Effective for entire length of Permit**

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

**Item 50.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B  
 Process: 001

Emission Source: 00001

**Item 50.2:**

Compliance Certification shall include the following monitoring:

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

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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 (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 51: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement: 40CFR 60.276a(a), NSPS Subpart AAa**

**Item 51.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

Process: 001

Emission Source: 00001

**Item 51.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In accordance with the reporting requirements of 60.276a (b), (c) and (g), Nucor shall submit a written report of excess emissions to the Administrator on a semi-annual basis, according to §60.7(c). Such report shall include the following:

- Exceedances of the control device opacity. For the purposes of these reports, exceedances are defined as all 6-minute periods during which the average opacity is 3 percent or greater.
- Operation of control system fan motor amperes at values exceeding ±15 percent of the value established under §60.274a(c) or operation at flow rates lower than those established under §60.274a(c).
- All shop opacity observations in excess of the emission limit specified in §60.272a(a)(3) of this subpart shall indicate a period of excess emission, and shall be reported to the administrator semi-annually.

The requirements of this section remain in force until and unless EPA, in delegating enforcement authority to a State under section 111 (c) of the Act, approves reporting

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requirements or an alternative means of compliance surveillance adopted by such State. In that event, affected sources within the State will be relieved of the obligation to comply with this section, provided that they comply with the requirements established by the State.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 12 calendar month(s).

**Condition 52: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.276a(a), NSPS Subpart AAa**

**Item 52.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

Process: 001

Emission Source: 00001

**Item 52.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Records of measurements required in Section 60.274a must be retained for at least 2 years following the date of the measurement.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 53: Capping Monitoring Condition**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR Subpart 201-7**

**Item 53.1:**

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process

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would otherwise be subject to:

40 CFR 52.21

**Item 53.2:**

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

**Item 53.3:**

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.

**Item 53.4:**

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

**Item 53.5:**

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

**Item 53.6:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

Emission Point: 0001B

Regulated Contaminant(s):

CAS No: 007439-92-1

LEAD

**Item 53.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

In order to demonstrate that lead (Pb) emissions are below the PSD threshold of 0.6 ton/yr, the permitted particulate emission rate for the EAF shall not exceed 0.0018 grains per dry standard cubic foot.

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.0018 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 54: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR Subpart 231-8**

**Item 54.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

Emission Point: 0001B

Regulated Contaminant(s):

CAS No: 0NY075-02-5 PM 2.5

**Item 54.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Per a BACT analysis dated November, 2015, the use of fabric filtration to control particulate emissions from the EAF constitutes Best Available Control Technology (BACT). Post-control emissions of total filterable and condensable PM2.5 from the EAF shall not exceed 0.0040 grains per dry standard cubic foot.

Upper Permit Limit: 0.0040 grains per dscf

Reference Test Method: Department Approved Methods

Monitoring Frequency: Once every five years

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST  
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 55: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR Subpart 231-8**

**Item 55.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

Emission Point: 0001B

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

Regulated Contaminant(s):  
CAS No: 0NY075-00-5 PM-10

**Item 55.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Per a BACT analysis dated November, 2015, the use of fabric filtration to control particulate emissions from the EAF constitutes Best Available Control Technology (BACT). Post-control emissions of total filterable and condensable PM-10 from the EAF shall not exceed 0.0043 grains per dry standard cubic foot.

Upper Permit Limit: 0.0043 grains per dsfc

Reference Test Method: Department Approved Methods

Monitoring Frequency: Once every five years

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST  
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 56: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR Subpart 231-8**

**Item 56.1:**

The Compliance Certification activity will be performed for:

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

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

**Item 56.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Per a BACT analysis dated November, 2015, the use of fabric filtration to control particulate emissions from the EAF constitutes Best Available Control Technology (BACT). Post-control emissions of filterable particulate from the EAF shall not exceed 0.0018 grains per dry standard cubic foot.

This limit is more stringent than and thus supersedes the



Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

NSPS EAF particulate limit established in 40 CFR 60.272a and of 0.0052 gr/dscf.

Upper Permit Limit: 0.0018 grains per dscf  
 Reference Test Method: EPA RM 5D  
 Monitoring Frequency: Once every five years  
 Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED  
 Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 57: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 57.1:**

The Compliance Certification activity will be performed for:

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

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

**Item 57.2:**

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: Thermo Environmental Instruments (TEI) Model 48C/48i

Upper Permit Limit: 150 parts per million (by volume)  
 Reference Test Method: 40 CFR 60 Appendix B PS 4 & Appendix F  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 30-DAY ROLLING AVERAGE  
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 58: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 58.1:**

The Compliance Certification activity will be performed for:

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

Emission Unit: U-0001B

Emission Point: 0001B

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 58.2:**

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 from EP 0001B must be continuously monitored in accordance with the PSD permit dated September 27, 1983.

Manufacturer Name/Model Number: Thermo Environmental Instruments (TEI) Model 48C/48i

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

Reference Test Method: 40 CFR 60 Appendix B PS 4 & Appendix F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 59: Compliance Certification  
Effective for entire length of Permit**

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

**Item 59.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

Emission Point: 0001B

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 59.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Per the June 22, 2004 EPA PSD permit issued to Nucor Steel for the modification to the facility to increase EAF production, emission limitations shall be increased by 25% during periods of startup and shutdown of the EAF furnace.

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

During periods of startup and shutdown, emissions of carbon monoxide from Emission Point 0001B must not exceed 253.0 pounds per hour. Startup and shutdown periods of one (1) hour each shall be recognized for the EAF.

i. Startup shall be defined as those periods beginning with restoration of power to the furnace after any such shut down or delay.

ii. Shutdown shall be defined as those periods beginning with any calls for a shutdown or delay of 60 minutes or more when there is no power to the furnace. The shutdown period of one (1) hour begins with the beginning of the delay or shutdown.

The following formula shall be used to convert CO ppm CEM values for Emission Point 0001B into lb/hour values:

$$\text{CO (lb/hr)} = (\text{CO ppm})(\text{Flow scfmd}) \left( \frac{60 \text{ minutes/hour}}{28} \right) / 385.1 \times 10^6 \text{ where:}$$

- CO ppm = from CEM as volume/volume basis
- Flow scfmd = volumetric flow rate in standard cubic feet per minute dry
- 28= molecular weight for CO
- 385.1 = conversion from ppm volume basis to ppm weight basis
- 10<sup>6</sup> = conversion of ppm

Manufacturer Name/Model Number: TEI Model 48i  
 Upper Permit Limit: 253.0 pounds per hour  
 Reference Test Method: 40 CFR 60 APP B PS4 & APP F  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION  
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 60: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 60.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

Emission Point: 0001B

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

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

**Item 60.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Emissions of carbon monoxide from Emission Point 0001B shall not exceed 202.4 lb/hr on an eight-hour average basis, calculated hourly. Periods of startup and shutdown are not included in these calculations as they are subject to different emission limits.

The following formula shall be used to convert CO ppm CEM values for EP 0001B into lb/hour values:

$$\text{CO (lb/hr)} = (\text{CO ppm})(\text{Flow scfmd}) \left( \frac{60 \text{ minutes/hour}}{28} \right) / 385.1 \times 10^6$$

where:

- CO ppm = from CEM as volume/volume basis
- Flow scfmd = volumetric flow rate in standard cubic feet per minute dry
- 28= molecular weight for CO
- 385.1 = conversion from ppm volume basis to ppm weight basis
- 10<sup>6</sup> = conversion of ppm

Manufacturer Name/Model Number: Thermo Environmental Instruments (TEI) Model 48C/48i

Upper Permit Limit: 202.4 pounds per hour

Reference Test Method: 40 CFR 60 Appendix B PS 4 & Appendix F

Monitoring Frequency: CONTINUOUS

Averaging Method: 8-HOUR RUNNING AVERAGE ROLLED HOURLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 61: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 61.1:**

The Compliance Certification activity will be performed for:

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

Emission Unit: U-0001B

Emission Point: 0001B

Regulated Contaminant(s):

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

**Item 61.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Nitrogen Oxide emissions shall not exceed 0.25 pounds per ton of steel produced on a 30-day rolling average basis calculated daily. NOx 30-day pound per ton emissions are calculated for each day using the total NOx emissions for the previous 30 days and dividing by the total steel billet tons for the previous 30 days.

\*This new emission limit was taken to avoid PSD applicability for the 2015/2016 EAF modification.

Manufacturer Name/Model Number: Thermo Environmental Instruments (TEI) Model 42i

Upper Permit Limit: 0.25 pounds per ton

Reference Test Method: 40 CFR 60 Appendix B PS 2 & Appendix F

Monitoring Frequency: CONTINUOUS

Averaging Method: 30-DAY ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 62: Compliance Certification  
Effective for entire length of Permit**

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

**Item 62.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

Emission Point: 0001B

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

**Item 62.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Carbon monoxide emissions from Emission Point 0001B shall not exceed 2.0 lbs/ton steel produced on a 30-day rolling average basis calculated daily.

Manufacturer Name/Model Number: Thermo Environmental Instruments (TEI) Model 48C/48i

Upper Permit Limit: 2.0 pounds per ton

Reference Test Method: 40 CFR 60 Appendix B PS 4 & Appendix F

Monitoring Frequency: CONTINUOUS

Averaging Method: 30 DAY ROLLING AVERAGE, ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 63: Compliance Certification  
Effective for entire length of Permit**

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

**Item 63.1:**

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 63.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Per the June 22, 2004 EPA PSD permit issued to Nucor Steel for the modification to the facility to increase EAF production, emission limitations shall be increased by 25% during periods of startup and shutdown of the EAF furnace.

During periods of startup and shutdown, emissions of nitrogen oxides from Emission Point 0001B must not exceed 34.15 pounds per hour. Startup and shutdown periods of one (1) hour each shall be recognized for the EAF.

i. Startup shall be defined as those periods beginning



Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Emissions of nitrogen oxides from Emission Point 0001B must not exceed 27.32 pounds per hour on a 24-hour rolling average basis, calculated hourly based upon the CEMS data for the previous 24 hours. Periods of startup and shutdown are not included in these calculations, as they are subject to different emission limits.

The following formula shall be used to convert NOx ppm CEM values for EP 0001B into lb/hour values:

$$\text{NOx (lb/hr)} = (\text{NOx ppm})(\text{Flow scfmd}) \left( \frac{60 \text{ minutes/hour}}{46} \right) / 385.1 \times 10^6$$

where:

NOx ppm = from CEM as volume/volume 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  
 10<sup>6</sup> = conversion of ppm

Manufacturer Name/Model Number: Thermo Environmental Instruments (TEI) Model 42i

Upper Permit Limit: 27.32 pounds per hour

Reference Test Method: 40 CFR 60 Appendix B PS 2 & Appendix F

Monitoring Frequency: CONTINUOUS

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 65: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 65.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B

Emission Point: 0001B

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE



Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

**Item 65.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Emissions of sulfur dioxide from Emission Point 0001B shall not exceed 0.25 pounds per ton of steel produced on a 30-day rolling average basis, calculated daily.

Manufacturer Name/Model Number: Thermo Environmental Instruments (TEI) Model 43i

Upper Permit Limit: 0.25 pounds per ton

Reference Test Method: 40 CFR 60 Appendix B PS 2 & Appendix F

Monitoring Frequency: CONTINUOUS

Averaging Method: 30 DAY ROLLING AVERAGE, ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 66: Compliance Certification  
Effective for entire length of Permit**

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

**Item 66.1:**

The Compliance Certification activity will be performed for:

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

Regulated Contaminant(s):  
CAS No: 007446-09-5                      SULFUR DIOXIDE

**Item 66.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Emissions of sulfur dioxide from Emission Point 0001B shall not exceed 25.3 pounds per hour on a 24-hour average basis, calculated hourly based upon the CEMS data for the previous 24 hours. Periods of startup and shutdown are not included in these calculations, as they are subject to different emission limits.

The following formula shall be used to convert SO<sub>2</sub> ppm CEM values from the EAF into lb/hour values:

$$SO_2 \text{ (lb/hr)} = (SO_2 \text{ ppm})(\text{Flow scfmd}) \left( \frac{60 \text{ minutes/hour}}{64} \right) / 385.1 \times 10^6$$

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

where:

SO2 ppm = from CEM as volume/volume basis  
 Flow scfmd = volumetric flow rate in standard cubic feet  
 per minute dry  
 64 = molecular weight for SO2  
 385.1 = conversion from ppm volume basis to ppm weight  
 basis  
 10<sup>6</sup> = conversion of ppm

Manufacturer Name/Model Number: Thermo Environmental Instruments (TEI) Model 43i  
 Upper Permit Limit: 25.3 pounds per hour  
 Reference Test Method: 40 CFR 60 Appendix B PS 2 & Appendix F  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: AVERAGING METHOD - SEE MONITORING  
 DESCRIPTION  
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 67: Compliance Certification  
 Effective for entire length of Permit**

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

**Item 67.1:**

The Compliance Certification activity will be performed for:

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

**Item 67.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Nucor shall continuously monitor and record the exhaust gas volumetric flow rate for Emission Point 0001B. Data from the flow monitoring system shall be utilized along with input from the CEM in order to calculate the hourly emission rates of CO, NO, and SO<sub>2</sub>. Daily span checks shall be performed in order to ensure system accuracy.

Nucor shall conduct system maintenance according to the manufacturer's recommendations.

In order to verify the flow rate measured by the system, NUCOR shall conduct flow rate testing on an annual basis using EPA standard flow traverse methodology.

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

Monitoring Frequency: CONTINUOUS  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 68: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 68.1:**

The Compliance Certification activity will be performed for:

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

**Item 68.2:**

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.

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

**Condition 69: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 69.1:**

The Compliance Certification activity will be performed for:

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

Emission Unit: U-0001B  
Process: 001

Emission Point: 0001B

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

**Item 69.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions exiting the baghouse shall not contain particulate matter in excess of 12 mg/dscm (0.0052 gr/dscf). This emission limit is superseded by more a stringent limit contained within this permit.

Upper Permit Limit: 0.0052 grains per dscf

Reference Test Method: EPA RM 5

Monitoring Frequency: Once every five years

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST  
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 70: Compliance Certification  
Effective for entire length of Permit**

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

**Item 70.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-0001B  
Process: 001

Emission Point: 0001B

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

**Item 70.2:**

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

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

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.

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

**Condition 71: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 216.4**

**Item 71.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-ORBF1

Emission Point: ORBF2

**Item 71.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Emissions from Emission Point ORBF2 shall not result in an opacity which exceeds 20%.

Compliance with the opacity standards will be determined

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

by observing visible emissions discharged during the operation of the iron and/or steel process. The observer must stand at a distance sufficient to provide a clear view of the visible emissions with the sun oriented in the 140° sector of his back. The opacity of emissions will be computed by averaging the results of 24 consecutive opacity observations made at 15-second intervals. For cyclic processes that generate emissions for less than six minutes per cycle, observations will be made only during the operation of the process when visible emissions are generated. A sufficient number of process cycles must be observed to accumulate the required minimum of 24 consecutive opacity readings.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA RM 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.

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

**Condition 72: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 72.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-ORBF1

Emission Point: ORBF2

Regulated Contaminant(s):

CAS No: 000630-08-0

CARBON MONOXIDE

**Item 72.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Per the June 22, 2004 EPA PSD permit issued to Nucor Steel for the modification to the facility to increase EAF production, emission limitations shall be increased by 25% during periods of startup and shutdown of the reheat furnace.

During periods of startup and shutdown, emissions of carbon monoxide from Emission Point ORBF2 must not exceed

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

18.75 pounds per hour. Startup and shutdown periods of four (4) hours each shall be recognized for the reheat furnace. This allows for a gradual heating/cooling of the refractory.

i. Startup shall be defined as those periods following a shutdown when the burners are turned back on.

ii. Shutdown shall be defined as those periods preceding times when all burners are eventually off.

The following formula shall be used to convert CO ppm CEM values from the reheat furnace into lb/hour values:

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

where:

$$(\text{KCF} * 20.9 / (20.9 - \text{O}_2)) = \text{mass emissions of CO (lb/MMBTU)}$$

K = conversion factor for CO =  $7.2678 \times 10^{-8}$

([lb/scf]/ppm)

C = concentration of CO (ppm by volume, dry basis)

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 (AP-42).

Manufacturer Name/Model Number: TEI Model 48C/48I

Upper Permit Limit: 18.75 pounds per hour

Reference Test Method: 40 CFR 60 APP B PS4 & APP F

Monitoring Frequency: CONTINUOUS

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 73: Compliance Certification  
Effective for entire length of Permit**

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

**Item 73.1:**

The Compliance Certification activity will be performed for:

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

Emission Unit: U-0RBF1

Emission Point: 0RBF2

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 73.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Emissions of CO shall not exceed 15.0 pounds per hour on an eight-hour average basis, calculated hourly. Periods of startup and shutdown are not included in these calculations as they are subject to different emission limits.

The following formula shall be used to convert CO ppm CEM values from the reheat furnace into lb/hour values:

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

where:

$$(\text{KCF} * 20.9 / (20.9 - \text{O}_2)) = \text{mass emissions of CO (lb/MMBTU)}$$

K = conversion factor for CO =  $7.2678 \times 10^{-8}$  (lb/scf/ppm)

C = concentration of CO (ppm by volume, dry basis)

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 (AP-42).

Manufacturer Name/Model Number: Thermo Environmental Instruments (TEI) Model 48C/48i

Upper Permit Limit: 15.0 pounds per hour

Reference Test Method: 40 CFR 60 Appendix B PS 4 & Appendix F

Monitoring Frequency: CONTINUOUS

Averaging Method: 8-HOUR RUNNING AVERAGE ROLLED HOURLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 74: Compliance Certification**



Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

**Effective for entire length of Permit**

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

**Item 74.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-ORBF1

Emission Point: ORBF2

Regulated Contaminant(s):

CAS No: 0NY210-00-0

OXIDES OF NITROGEN

**Item 74.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Per the June 22, 2004 EPA PSD permit issued to Nucor Steel for the modification to the facility to increase EAF production, emission limitations shall be increased by 25% during periods of startup and shutdown of the reheat furnace.

During periods of startup and shutdown, emissions of nitrogen oxides from Emission Point ORBF2 must not exceed 12.3 pounds per hour. Startup and shutdown periods of four (4) hours each shall be recognized for the reheat furnace. This allows for a gradual heating/cooling of the refractory.

i. Startup shall be defined as those periods following a shutdown when the burners are turned back on.

ii. Shutdown shall be defined as those periods preceding times when all burners are eventually off.

The following formula shall be used to convert NOx ppm CEM values for Emission Point ORBF2 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 =  $1.194 \times 10^{-7}$  (lb/scf)/ppm

C = concentration of nitrogen oxides (NOx) (ppm by volume,

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dry basis)  
 F = F-factor for natural gas (dscf/MMBTU)  
 O2 = 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)

Manufacturer Name/Model Number: TEI Model 43i  
 Upper Permit Limit: 12.3 pounds per hour  
 Reference Test Method: 40 CFR 60 APP B PS2 & APP F  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED  
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 75: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 75.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-ORBF1                      Emission Point: ORBF2  
 Regulated Contaminant(s):  
 CAS No: 0NY210-00-0                      OXIDES OF NITROGEN

**Item 75.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Emissions of nitrogen oxides shall not exceed 9.85 lbs/hr on a 24-hour rolling average basis, calculated hourly. Periods of startup and shutdown are not included in these calculations as they are subject to different emission limits. 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:

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(KCF x 20.9/(20.9-O2) = mass emissions of nitrogen oxides  
 (lb/mmBtu)  
 K = conversion factor for nitrogen oxides = 1.194 x 10<sup>-7</sup>  
 ([lb/scf]/ppm)  
 C = concentration of nitrogen oxides (NO<sub>x</sub>) (ppm by volume,  
 dry basis)  
 F = F-factor for natural gas (dscf/MMBTU)  
 O2 = 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)

Manufacturer Name/Model Number: Thermo Environmental Instruments (TEI) Model 42i  
 Upper Permit Limit: 9.85 pounds per hour  
 Reference Test Method: 40 CFR 60 Appendix B PS 2 & Appendix F  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: AVERAGING METHOD - SEE MONITORING  
 DESCRIPTION  
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 76: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 76.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-ORBF1                      Emission Point: ORBF2

Regulated Contaminant(s):  
 CAS No: 007446-09-5                      SULFUR DIOXIDE

**Item 76.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emissions of sulfur dioxide shall not exceed 0.11 lb/hr  
 on a 24-hour average basis, calculated hourly.

SO<sub>2</sub> emissions are to be calculated using AP-42 emission  
 factors (Table 1.4-2) along with natural gas consumption  
 for the reheat furnace.

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

Reference Test Method: AP-42  
Monitoring Frequency: CONTINUOUS  
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 77: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 77.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-ORBF1                      Emission Point: ORBF2

Regulated Contaminant(s):  
CAS No: 007446-09-5                      SULFUR DIOXIDE

**Item 77.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emissions of sulfur dioxide shall not exceed 0.0006  
lb/MMBTU on a 24-hour rolling average basis.

SO2 emissions are to be calculated using AP-42 emission  
factors (Table 1.4-2) along with natural gas consumption  
for the reheat furnace.

Reference Test Method: AP-42  
Monitoring Frequency: CONTINUOUS  
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 78: Compliance Certification**  
**Effective for entire length of Permit**

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

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

**Item 78.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-ORBF1

Emission Point: ORBF2

Regulated Contaminant(s):

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

**Item 78.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Emissions of 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 =  $1.194 \times 10^{-7}$  (lb/scf)/ppm

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

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

This limit is the same as the limit established in the LAER analysis required in 6 NYCRR 231.

Manufacturer Name/Model Number: Thermo Environmental Instruments (TEI) Model 42i

Upper Permit Limit: 0.075 pounds per million Btus

Reference Test Method: 40 CFR 60 Appendix B PS2 & Appendix F

Monitoring Frequency: CONTINUOUS

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 79: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 79.1:**

The Compliance Certification activity will be performed for:

Permit ID: 7-0501-00044/00007

Facility DEC ID: 7050100044

Emission Unit: U-ORBF1

Emission Point: ORBF2

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 79.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Emissions of CO shall not exceed 0.084 lb/MMBTU on a 24-hour rolling average basis.

CO lb/mmbtu shall be calculated using the formula:

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

where:

K = conversion factor for carbon monoxide =  $7.2678 \times 10^{-8}$   
 ([lb/scf]/ppm)

C = concentration of carbon monoxide (COx) (ppm by volume, dry basis)

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

Manufacturer Name/Model Number: Thermo Environmental Instruments (TEI) Model 48C/48i

Upper Permit Limit: 0.084 pounds per million Btus

Reference Test Method: 40 CFR 60 Appendix B PS 4 & Appendix F

Monitoring Frequency: CONTINUOUS

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 80: Compliance Certification  
 Effective for entire length of Permit**

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

**Item 80.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-ORBF1

Emission Point: ORBF2

Process: 002

Emission Source: 00006

**Item 80.2:**

Compliance Certification shall include the following monitoring:

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Facility DEC ID: 7050100044

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Maximum annual production limit for the rolling mill to limit annual NOx 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.

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

**Condition 81: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 211.2**

**Item 81.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-MATLH

**Item 81.2:**

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 as well as the millscale processing and stockpiles shall not equal or exceed 20% with the exception of uncombined water with the exception of one continuous six-minute period per hour of not more than 57 percent opacity. Daily opacity observations must be performed on the slag handling and transport systems by a certified observer. Millscale stockpile opacity observations must be conducted upon Department request. A summary of excess emissions must be included in the semiannual report to the department.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA RM 9

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Monitoring Frequency: DAILY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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



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**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: Emergency Defense - 6 NYCRR 201-1.5**

An emergency, as defined in 6 NYCRR subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

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

- (1) an emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;
- (2) the equipment at the facility was being properly operated and maintained;
- (3) during the period of the emergency the facility owner or operator took all reasonable steps to minimize the levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- (4) the facility owner or operator notified the department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.

(b) In any enforcement proceeding, the facility owner 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 malfunction provision contained in any applicable requirement.

**Item B: 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

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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 82: Contaminant List**  
**Effective for entire length of Permit**

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

#### **Item 82.1:**

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

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

CAS No: 007439-92-1  
Name: LEAD

CAS No: 007446-09-5  
Name: SULFUR DIOXIDE

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

CAS No: 0NY075-00-5

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Name: PM-10

CAS No: 0NY075-02-5

Name: PM 2.5

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

CAS No: 0NY998-00-0

Name: VOC

**Condition 83: Malfunctions and Start-up/Shutdown Activities  
Effective for entire length of Permit**

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

**Item 83.1:**

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment maintenance and start-up/shutdown activities when they are expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when required by a permit condition or upon request by the department. Such reports shall state whether an exceedance occurred and if it was unavoidable, include the time, frequency and duration of the exceedance, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous monitoring and quarterly reporting requirements need not submit additional reports of exceedances to the department.

(c) In the event that air contaminant emissions exceed any applicable emission standard due to a malfunction, the facility owner or operator shall notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. In addition, the facility owner or operator shall compile and maintain a record of all malfunctions. Such records shall be maintained at the facility for a period of at least five years and must be made available to the department upon request. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, the air contaminants emitted, and the resulting emission rates and/or opacity.

(d) The department may also require the facility owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.

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(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

**Condition 84: Requirement to Commence Construction**  
**Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 201-1.15**

**Item 84.1:**

The Department may suspend, modify or revoke the permit, pursuant to 6 NYCRR Part 621, if construction has not commenced within 18 months of the date of permit issuance, or construction has been discontinued for a period of more than 18 months at any point after the date of permit issuance.

The Department may grant the facility owner or operator an extension of up to 18 months upon a showing of good cause submitted in writing.

**Condition 85: CLCPA Applicability**  
**Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 201-6.5 (a)**

**Item 85.1:**

Pursuant to The New York State Climate Leadership and Community Protection Act (CLCPA) and Article 75 of the Environmental Conservation Law, emission sources shall comply with regulations to be promulgated by the Department to ensure that by 2030 statewide greenhouse gas emissions are reduced by 40% of 1990 levels, and by 2050 statewide greenhouse gas emissions are reduced by 85% of 1990 levels.

**Condition 86: Air pollution prohibited**  
**Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 211.1**

**Item 86.1:**

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.

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**Condition 87: Compliance Demonstration  
Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 212-2.1**

**Item 87.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 87.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For an air contaminant listed in Section 212-2.2 Table 2 – High Toxicity Air Contaminant List, of this Part, the facility owner or operator shall demonstrate compliance with the air cleaning requirements for the HTAC as specified in Subdivision 212-2.3(b), Table 4 – Degree of Air Cleaning Required for Non-Criteria Air Contaminants.

For an HTAC assigned an Environmental Rating of A and has an Emission Rate Potential (ERP) of less than 0.1 pound per hour and annual mass emissions of a persistent and bioaccumulative compound less than the PB Trigger, the owner or operator is required to meet the short term and annual guideline concentration at the fence line of the facility.

No later than 180 days after the effective date of this permit renewal (REN 2) the facility must submit to the Department a 212/DAR-1 protocol for all HTACs and "A" rated compounds emitted at the facility.

Within 90 days upon receiving Department approval of the protocol, the final analysis must be submitted to the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 12 calendar month(s).

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