Permit ID: 7-0501-00044/00007  
Renewal Number: 2  
10/13/2021

Facility Identification Data
Name: NUCOR STEEL AUBURN INC  
Address: 25 QUARRY RD  
AUBURN, NY 13021

Owner/Firm
Name: NUCOR STEEL AUBURN INC  
Address: 25 QUARRY RD  
PO BOX 2008  
AUBURN, NY 13021, USA  
Owner Classification: Corporation/Partnership

Permit Contacts
Division of Environmental Permits:  
Name: KEVIN M BALDUZZI  
Address: NYSDEC - REGION 7  
615 ERIE BLVD W  
SYRACUSE, NY 13204  
Phone:3154267493

Division of Air Resources:  
Name: ANDREW C LOFARO  
Address: NYSDEC - REGION 7  
615 ERIE BLVD W  
SYRACUSE, NY 13204  
Phone:3154267472

Air Permitting Contact:  
Name: Jonah Simons  
Address: 25 Quarry Road  
Auburn, NY 13021  
Phone:3152584239

Permit Description
Introduction
The Title V operating air permit is intended to be a document containing only enforceable terms and conditions as well as any additional information, such as the identification of emission units, emission points, emission sources and processes, that makes the terms meaningful. 40 CFR Part 70.7(a)(5) requires that each Title V permit have an accompanying "...statement that sets forth the legal and factual basis for the draft permit conditions". The purpose for this permit review report is to satisfy the above requirement by providing pertinent details regarding the permit/application data and permit conditions in a more easily understandable format. This report will also include background narrative and explanations of regulatory decisions made by the reviewer. It should be emphasized that this permit review report, while based on information contained in the permit, is a separate document and is not itself an enforceable term and condition of the permit.

Summary Description of Proposed Project
Application for renewal of Air Title V Facility incorporating the requirements of the previous two minor mods under 6NYCRR 231.
Attainment Status
NUCOR STEEL AUBURN INC is located in the town of AUBURN in the county of CAYUGA. The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

<table>
<thead>
<tr>
<th>Criteria Pollutant</th>
<th>Attainment Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particulate Matter (PM)</td>
<td>ATTAINMENT</td>
</tr>
<tr>
<td>Particulate Matter &lt; 10µ in diameter (PM10)</td>
<td>ATTAINMENT</td>
</tr>
<tr>
<td>Sulfur Dioxide (SO2)</td>
<td>ATTAINMENT</td>
</tr>
<tr>
<td>Ozone*</td>
<td>TRANSPORT REGION (NON-ATTAINMENT)</td>
</tr>
<tr>
<td>Oxides of Nitrogen (NOx)**</td>
<td>ATTAINMENT</td>
</tr>
<tr>
<td>Carbon Monoxide (CO)</td>
<td>ATTAINMENT</td>
</tr>
</tbody>
</table>

* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.
** NOx has a separate ambient air quality standard in addition to being an ozone precursor.

Facility Description:
The facility receives scrap metal and using an electric arc furnace, produces billets of steel that are sold and manufactured into bar stock and reinforcement rod for the building trades. The scrap is received by truck, sorted by type and used to make specification steel. Coal, coke, coke breeze, coke products, and/or rubber tires are used for a source of carbon in various steel products. A large bag house collects and filters all steel process exhausts.

The plant consists of an electric arc scrap steel furnace, billet continuous caster, re-heat furnaces, and a hot-steel rolling mill. The charges of scrap steel are melted by the heat from the electric current passing through three electrodes. Molten steel is tapped into a heated ladle, refined with an inert gas and adding alloys to achieve the desired metallurgy and continuously cast into billets. Billets are cut to length as they emerge from the caster and are cooled with water sprays. Some billets are sent directly to the rolling mill for processing into bars and round stock. When these billets are rolled, they are reheated in a reheat furnace before they are rolled. Other billets are stored until a product is required to be manufactured. Some billets are also sold to other customers for further processing.

Permit Structure and Description of Operations
The Title V permit for NUCOR STEEL AUBURN INC is structured in terms of the following hierarchy: facility, emission unit, emission point, emission source and process. A facility is defined as all emission sources located at one or more adjacent or contiguous properties owned or operated by the same person or persons under common control. The facility is subdivided into one or more emission units (EU). Emission units are defined as any part or activity of a stationary facility that emits or has the potential to emit any federal or state regulated air pollutant. An emission unit is represented as a grouping of processes (defined as any activity involving one or more
Division of Air Resources
Permit Review Report

Permit ID: 7-0501-00044/00007
Renewal Number: 2
10/13/2021

emission sources (ES) that emits or has the potential to emit any federal or state regulated air pollutant. An emission source is defined as any apparatus, contrivance or machine capable of causing emissions of any air contaminant to the outdoor atmosphere, including any appurtenant exhaust system or air cleaning device. [NOTE: Indirect sources of air contamination as defined in 6 NYCRR Part 203 (i.e. parking lots) are excluded from this definition]. The applicant is required to identify the principal piece of equipment (i.e., emission source) that directly results in or controls the emission of federal or state regulated air pollutants from an activity (i.e., process). Emission sources are categorized by the following types:

- combustion - devices which burn fuel to generate heat, steam or power
- incinerator - devices which burn waste material for disposal
- control - emission control devices
- process - any device or contrivance which may emit air contaminants that is not included in the above categories.

NUCOR STEEL AUBURN INC is defined by the following emission unit(s):

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

Process: 004 Fugitive emissions from outdoor steel processes including slag and millscale storage and handling.

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

Process: 005 is located at Building RM - Hot rolling of steel billets following reheat furnace.

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

Emission unit UTOWER is associated with the following emission points (EP):
0005A, 0005B, 0006A, 0006B
Process: 003 is located at Building RM - Contact cooling towers provide cooling water for both the caster (COOL2) and rolling mill (COOL3).

Emission unit U0001B - 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.

Emission unit U0001B is associated with the following emission points (EP):
0001B, 0001M, 0001R, 0001S
Process: 001 is located at Building MS - 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 unit U0RBF1 - Billet reheating and rolling mill operations, with incidental indoor fugitive emissions.

Emission unit U0RBF1 is associated with the following emission points (EP):
0RBF2
Process: 002 is located at Building RF - Steel billets are reheated in a natural gas fired Reheating Furnace prior to rolling into finished products.

Title V/Major Source Status
NUCOR STEEL AUBURN INC is subject to Title V requirements. This determination is based on the following information:
The facility is major for Carbon Monoxide with reported actual emissions of 425 tons in 2018.

Program Applicability
The following chart summarizes the applicability of NUCOR STEEL AUBURN INC with regards to the principal air pollution regulatory programs:

<table>
<thead>
<tr>
<th>Regulatory Program</th>
<th>Applicability</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSD</td>
<td>YES</td>
</tr>
<tr>
<td>NSR (non-attainment)</td>
<td>YES</td>
</tr>
<tr>
<td>NESHAP (40 CFR Part 61)</td>
<td>YES</td>
</tr>
<tr>
<td>NESHAP (MACT - 40 CFR Part 63)</td>
<td>YES</td>
</tr>
<tr>
<td>NSPS</td>
<td>YES</td>
</tr>
<tr>
<td>TITLE IV</td>
<td>NO</td>
</tr>
<tr>
<td>TITLE V</td>
<td>YES</td>
</tr>
<tr>
<td>TITLE VI</td>
<td>NO</td>
</tr>
<tr>
<td>RACT</td>
<td>YES</td>
</tr>
</tbody>
</table>
NOTES:
PSD  Prevention of Significant Deterioration (40 CFR 52, 6 NYCRR 231-7, 231-8) - requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NSR  New Source Review (6 NYCRR 231-5, 231-6) - requirements which pertain to major stationary sources located in areas which are in non-attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NESHAP  National Emission Standards for Hazardous Air Pollutants (40 CFR 61, 6 NYCRR 200.10) - contaminant and source specific emission standards established prior to the Clean Air Act Amendments of 1990 (CAA) which were developed for 9 air contaminants (inorganic arsenic, radon, benzene, vinyl chloride, asbestos, mercury, beryllium, radionuclides, and volatile HAP's).

MACT  Maximum Achievable Control Technology (40 CFR 63, 6 NYCRR 200.10) - contaminant and source specific emission standards established by the 1990 CAA. Under Section 112 of the CAAA, the US EPA is required to develop and promulgate emissions standards for new and existing sources. The standards are to be based on the best demonstrated control technology and practices in the regulated industry, otherwise known as MACT. The corresponding regulations apply to specific source types and contaminants.

NSPS  New Source Performance Standards (40 CFR 60, 6 NYCRR 200.10) - standards of performance for specific stationary source categories developed by the US EPA under Section 111 of the CAA. The standards apply only to those stationary sources which have been constructed or modified after the regulations have been proposed by publication in the Federal Register and only to the specific contaminant(s) listed in the regulation.

Title IV  Acid Rain Control Program (40 CFR 72 thru 78, 6 NYCRR 201-6) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.

Title VI  Stratospheric Ozone Protection (40 CFR 82, Subpart A thru G, 6 NYCRR 200.10) - federal requirements that apply to sources which use a minimum quantity of CFC’s (chlorofluorocarbons), HCFC’s (hydrofluorocarbons) or other ozone depleting substances or regulated substitute substances in equipment such as air conditioners, refrigeration equipment or motor vehicle air conditioners or appliances.

RACT  Reasonably Available Control Technology (6 NYCRR Parts 212-3, 220-1.6, 220-1.7, 220-2.3, 220-2.4, 226, 227-2, 228, 229, 230, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC’s and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

SIP  State Implementation Plan (40 CFR 52, Subpart HH, 6 NYCRR 200.10) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as
the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

**Compliance Status**
Facility is in compliance with all requirements.

**SIC Codes**
SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of activity in which they are engaged. Each operating establishment is assigned an industry code on the basis of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

<table>
<thead>
<tr>
<th>SIC Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3312</td>
<td>BLAST FURNACES AND STEEL MILLS</td>
</tr>
</tbody>
</table>

**SCC Codes**
SCC or Source Classification Code is a code developed and used by the USEPA to categorize processes which result in air emissions for the purpose of assessing emission factor information. Each SCC represents a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more SCC’s.

<table>
<thead>
<tr>
<th>SCC Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-03-009-04</td>
<td>PRIMARY METAL PRODUCTION</td>
</tr>
<tr>
<td></td>
<td>PRIM METAL PROD-STEEL MFG(SEE 303015 FOR INTEGRATED IRON &amp; STEEL MACT)</td>
</tr>
<tr>
<td></td>
<td>Electric Arc Furnace: Alloy Steel (Stack)</td>
</tr>
<tr>
<td>3-03-009-31</td>
<td>PRIMARY METAL PRODUCTION</td>
</tr>
<tr>
<td></td>
<td>PRIM METAL PROD-STEEL MFG(SEE 303015 FOR INTEGRATED IRON &amp; STEEL MACT)</td>
</tr>
<tr>
<td></td>
<td>Hot Rolling</td>
</tr>
<tr>
<td>3-03-009-33</td>
<td>PRIMARY METAL PRODUCTION</td>
</tr>
<tr>
<td></td>
<td>PRIM METAL PROD-STEEL MFG(SEE 303015 FOR INTEGRATED IRON &amp; STEEL MACT)</td>
</tr>
<tr>
<td></td>
<td>Reheat Furnaces</td>
</tr>
<tr>
<td>3-03-009-98</td>
<td>PRIMARY METAL PRODUCTION</td>
</tr>
<tr>
<td></td>
<td>PRIM METAL PROD-STEEL MFG(SEE 303015 FOR INTEGRATED IRON &amp; STEEL MACT)</td>
</tr>
<tr>
<td></td>
<td>Other Not Classified</td>
</tr>
<tr>
<td>3-85-001-01</td>
<td>COOLING TOWER</td>
</tr>
<tr>
<td></td>
<td>COOLING TOWER - PROCESS COOLING</td>
</tr>
<tr>
<td></td>
<td>MECHANICAL DRAFT</td>
</tr>
</tbody>
</table>

**Facility Emissions Summary**
In the following table, the CAS No. or Chemical Abstract Service code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.’s contain a ‘NY’ designation within them. These are not true CAS No.’s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.’s do not do. As an example, volatile organic compounds or VOC’s are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air
Division of Air Resources
Permit Review Report
Permit ID: 7-0501-00044/00007
Renewal Number: 2
10/13/2021

contaminant under its physical and operational design. Any physical or operational limitation on the
capacity of the facility or air contamination source to emit any air contaminant, including air pollution
control equipment and/or restrictions on the hours of operation, or on the type or amount or material
combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in
federally enforceable permit conditions. The PTE for each contaminant that is displayed represents the
facility-wide PTE in tons per year (tpy) or pounds per year (lbs/yr). In some instances the PTE represents
a federally enforceable emissions cap or limitation for that contaminant. The term ‘HAP” refers to any of
the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total
emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In
addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is
identified in the list below by the (HAP) designation.

<table>
<thead>
<tr>
<th>Cas No.</th>
<th>Contaminant</th>
<th>PTE lbs/yr</th>
<th>PTE tons/yr</th>
<th>Actual lbs/yr</th>
<th>Actual tons/yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>007440-38-2</td>
<td>ARSENIC</td>
<td>4.6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>000071-43-2</td>
<td>BENZENE</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>007440-43-9</td>
<td>CADMIUM</td>
<td>3.6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0NY750-00-0</td>
<td>CARBON</td>
<td></td>
<td>143000</td>
<td>215000000</td>
<td></td>
</tr>
<tr>
<td>0NY750-00-0</td>
<td>DIOXIDE EQUivalents</td>
<td></td>
<td>746</td>
<td>850000</td>
<td></td>
</tr>
<tr>
<td>0NY7440-47-3</td>
<td>CHROMIUM</td>
<td>42</td>
<td></td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>000050-00-0</td>
<td>FORMALDEHYDE</td>
<td>182</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>000110-54-3</td>
<td>HEXANE</td>
<td>4400</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>007439-92-1</td>
<td>LEAD</td>
<td>1072</td>
<td></td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>007439-96-5</td>
<td>MANGANESE</td>
<td>40</td>
<td></td>
<td></td>
<td>29</td>
</tr>
<tr>
<td>007439-97-6</td>
<td>MERCURY</td>
<td>142</td>
<td></td>
<td></td>
<td>68</td>
</tr>
<tr>
<td>000091-20-3</td>
<td>NAPHTHALENE</td>
<td>1.48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0NY059-28-0</td>
<td>NICKEL (NI059)</td>
<td>32</td>
<td></td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>0NY210-00-0</td>
<td>OXIDES OF NITROGEN</td>
<td>145</td>
<td></td>
<td>130000</td>
<td></td>
</tr>
<tr>
<td>0NY075-00-0</td>
<td>PARTICulates</td>
<td>87</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0NY075-02-5</td>
<td>PM 2.5</td>
<td>90</td>
<td></td>
<td>34000</td>
<td></td>
</tr>
<tr>
<td>0NY075-00-5</td>
<td>PM-10</td>
<td>99</td>
<td></td>
<td>36000</td>
<td></td>
</tr>
<tr>
<td>0NY7446-09-5</td>
<td>SULFUR</td>
<td>84</td>
<td></td>
<td>57000</td>
<td></td>
</tr>
<tr>
<td>000108-88-3</td>
<td>TOLUENE</td>
<td>8.2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0NY100-00-0</td>
<td>TOTAL HAP</td>
<td>5800</td>
<td></td>
<td>168</td>
<td></td>
</tr>
<tr>
<td>007440-62-2</td>
<td>VANADIUM</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0NY998-00-0</td>
<td>VOC</td>
<td>98000</td>
<td></td>
<td>76000</td>
<td></td>
</tr>
</tbody>
</table>

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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 Part 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 Part 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 Part 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 Part 201-6.4(a)(3)
This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Item 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 Part 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 Part 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
Division of Air Resources
Permit Review Report

Permit ID: 7-0501-00044/00007
Renewal Number: 2
10/13/2021

or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;

ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;

iii. The applicable requirements of Title IV of the 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 Part 201-6.4(i)
This Title V permit shall be reopened and revised under any of the following circumstances:

i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 2 01-6.7 and Part 621.

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

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

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

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

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Emergency Defense - 6 NYCRR 201-1.5
An emergency, as defined by 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 be demonstrated 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 permitted facility causing the
emergency was at the time being properly operated and maintained;
(3) During the period of the emergency the facility owner or
operator took all reasonable steps to minimize levels of emissions
that exceeded the emission standards, or other requirements in the
permit; and
(4) The facility owner 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 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 upset provision contained in any
applicable requirement.
Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

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

<table>
<thead>
<tr>
<th>Location</th>
<th>Regulation</th>
<th>Condition</th>
<th>Short Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FACILITY</td>
<td>ECL 19-0301</td>
<td>82</td>
<td>Powers and Duties of the Department with respect to air pollution control</td>
</tr>
<tr>
<td>U-0001B</td>
<td>40CFR 52-A.21</td>
<td>44</td>
<td>Prevention of Significant Deterioration</td>
</tr>
<tr>
<td>U-0001B/0001B</td>
<td>40CFR 52-A.21</td>
<td>57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67</td>
<td>Prevention of Significant Deterioration</td>
</tr>
<tr>
<td>U-0RBF1/0RBF2</td>
<td>40CFR 52-A.21</td>
<td>72, 73, 74, 75, 76, 77, 78, 79</td>
<td>Prevention of Significant Deterioration</td>
</tr>
<tr>
<td>FACILITY</td>
<td>40CFR 60-A</td>
<td>34</td>
<td>General provisions</td>
</tr>
<tr>
<td>U-0001B/0001B/001</td>
<td>40CFR 60- A Aa.272a(a) (1)</td>
<td>69</td>
<td>Steel plants:electric arc furnaces and Argon-Oxygen decarburization vessels - standard for particulate matter</td>
</tr>
<tr>
<td>U-0001B/0001B/001</td>
<td>40CFR 60- A Aa.272a(a) (2)</td>
<td>70</td>
<td>Steel plants:electric arc furnaces and Argon-Oxygen decarburization vessels - standard for particulate matter</td>
</tr>
<tr>
<td>U-0001B/-/001</td>
<td>40CFR 60- A Aa.272a(a) (3)</td>
<td>46</td>
<td>Steel plants:electric arc furnaces and Argon-Oxygen decarburization vessels - standard for particulate matter</td>
</tr>
</tbody>
</table>
Division of Air Resources
Permit Review Report

Permit ID: 7-0501-00044/00007
Renewal Number: 2
10/13/2021

U-0001B/-/001 40CFR 60-AAa.272a(b) 47 Steel plants: electric arc furnaces and Argon-Oxygen decarburization vessels - standard for particulate matter

U-0001B/-/001 40CFR 60-AAa.274a(b) 48 Steel plants: electric arc furnaces and Argon-Oxygen decarburization vessels - monitoring of operations

U-0001B/-/001/00001 40CFR 60-AAa.274a(d) 50 Steel plants: electric arc furnaces and Argon-Oxygen decarburization vessels - monitoring of operations

U-0001B/-/001 40CFR 60-AAa.274a(h) 49 Steel plants: electric arc furnaces and Argon-Oxygen decarburization vessels - monitoring of operations

U-0001B 40CFR 60-AAa.275a(e) 45 Steel plants: electric arc furnaces and Argon-Oxygen decarburization vessels - test methods and procedures

U-0001B/-/001/00001 40CFR 60-AAa.276a(a) 51, 52 Steel plants: electric arc furnaces and Argon-Oxygen decarburization vessels - recordkeeping and reporting requirements

FACILITY 40CFR 63-A 35 Subpart A - General Provisions apply to all NESHAP affected sources

FACILITY 40CFR 63-CCCCCC 36 Gasoline Dispensing Facilities Area Source NESHAP

FACILITY 40CFR 63-CCCCCC.11115 37 General duties to minimize emissions

FACILITY 40CFR 63-CCCCCC.11116 38 Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline

FACILITY 40CFR 63-YYYY.10685(a) 39 Chlorinated plastics, lead and free organic liquids requirements for facilities charging motor vehicles

FACILITY 40CFR 63-YYYY.10685(b) 40 Requirements for developing a site-specific plan for mercury switches

FACILITY 40CFR 63- YYYY.10685 41 Recordkeeping and
<table>
<thead>
<tr>
<th>FACILITY</th>
<th>Regulation</th>
<th>Subsection</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FACILITY</td>
<td>40 CFR 68</td>
<td>18</td>
<td>Chemical accident prevention provisions</td>
</tr>
<tr>
<td>FACILITY</td>
<td>40 CFR 82-F</td>
<td>19</td>
<td>Protection of Stratospheric Ozone - recycling and emissions reduction</td>
</tr>
<tr>
<td>FACILITY</td>
<td>6 NYCRR 200.6</td>
<td>1</td>
<td>Acceptable ambient air quality.</td>
</tr>
<tr>
<td>FACILITY</td>
<td>6 NYCRR 200.7</td>
<td>10</td>
<td>Maintenance of equipment.</td>
</tr>
<tr>
<td>FACILITY</td>
<td>6 NYCRR 201-1.15</td>
<td>84</td>
<td>Requirement to Commence Construction</td>
</tr>
<tr>
<td>FACILITY</td>
<td>6 NYCRR 201-1.4</td>
<td>83</td>
<td>Unavoidable noncompliance and violations</td>
</tr>
<tr>
<td>FACILITY</td>
<td>6 NYCRR 201-1.7</td>
<td>11</td>
<td>Recycling and Salvage</td>
</tr>
<tr>
<td>FACILITY</td>
<td>6 NYCRR 201-1.8</td>
<td>12</td>
<td>Prohibition of reintroduction of collected contaminants to the air</td>
</tr>
<tr>
<td>FACILITY</td>
<td>6 NYCRR 201-3.2(a)</td>
<td>13</td>
<td>Exempt Activities - Proof of eligibility</td>
</tr>
<tr>
<td>FACILITY</td>
<td>6 NYCRR 201-3.3(a)</td>
<td>14</td>
<td>Trivial Activities - proof of eligibility</td>
</tr>
<tr>
<td>FACILITY</td>
<td>6 NYCRR 201-6</td>
<td>20, 42, 43</td>
<td>Title V Permits and the Associated Permit Conditions</td>
</tr>
<tr>
<td>FACILITY</td>
<td>6 NYCRR 201-6.4(a)</td>
<td>15</td>
<td>General Conditions - Requirement to Provide Information</td>
</tr>
<tr>
<td>FACILITY</td>
<td>6 NYCRR 201-6.4(a)</td>
<td>7</td>
<td>General Conditions - Fees</td>
</tr>
<tr>
<td>FACILITY</td>
<td>6 NYCRR 201-6.4(a)</td>
<td>8</td>
<td>General Conditions - Right to Inspect</td>
</tr>
<tr>
<td>FACILITY</td>
<td>6 NYCRR 201-6.4(c)</td>
<td>3</td>
<td>Recordkeeping and Reporting of Compliance Monitoring Records of Monitoring, Sampling and Measurement Reporting Requirements - Deviations and Noncompliance Compliance Schedules - Progress Reports Compliance Certification Operational Flexibility</td>
</tr>
<tr>
<td>FACILITY</td>
<td>6 NYCRR 201-6.5(a)</td>
<td>85</td>
<td>State Enforceable Requirements Federally Enforceable Emissions Caps Emission Capping in Facility Permits Required emissions tests. Emission Statements - Applicability Emission Statements - record keeping</td>
</tr>
</tbody>
</table>
### FACILITY 6NYCRR 211.1 86
- General Prohibitions
  - air pollution prohibited

### FACILITY 6NYCRR 211.2 27
- General Prohibitions
  - visible emissions limited.

### U-MATLH 6NYCRR 211.2 81
- General Prohibitions
  - visible emissions limited.

### FACILITY 6NYCRR 212-2.1 87
- Requirements

### FACILITY 6NYCRR 215.2 9
- Open Fires - Prohibitions

### FACILITY 6NYCRR 216.3 28
- Particulate emissions.

### FACILITY 6NYCRR 216.4 29
- Opacity of emissions.

### U-0RBF1/0RBF2 6NYCRR 216.4 71
- Opacity of emissions.

### FACILITY 6NYCRR 230.4(a) 31
- Gaseous emissions.

### U-0001B/0001B/001 6NYCRR 231-11.2(b) 32
- Gasoline dispensing site recordkeeping requirements

### FACILITY 6NYCRR 231-11.2(c) 33
- Reasonable Possibility requirements for insignificant mods - less than 50% with excluded emissions

### FACILITY 6NYCRR 231-2.9(a) 68
- Emission offset applicability

### U-0001B/0001B/0006 6NYCRR 231-2.9(a) 80
- Emission offset applicability

### U-0001B/0001B 6NYCRR 231-8
- Mods to Existing Major Facilities in Attainment Areas (PSD)

### Applicability Discussion:
Mandatory Requirements: The following facility-wide regulations are included in all Title V permits:

**ECL 19-0301**
This section of the Environmental Conservation Law establishes the powers and duties assigned to the Department with regard to administering the air pollution control program for New York State.

**6 NYCRR 200.6**
Acceptable ambient air quality - prohibits contravention of ambient air quality standards without mitigating measures

**6 NYCRR 200.7**
Anyone owning or operating an air contamination source which is equipped with an emission control device must operate the control consistent with ordinary and necessary practices, standards and procedures, as per manufacturer's specifications and keep it in a satisfactory state of maintenance and repair so that it operates effectively.
Division of Air Resources
Permit Review Report

Permit ID: 7-0501-00044/00007
Renewal Number: 2
10/13/2021

6 NYCRR 201-1.4
This regulation specifies the actions and recordkeeping and reporting requirements for any violation of an applicable state enforceable emission standard that results from a necessary scheduled equipment maintenance, start-up, shutdown, malfunction or upset in the event that these are unavoidable.

6 NYCRR 201-1.7
Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8
Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)
An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains exempt emission sources or units, 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.

6 NYCRR 201-3.3 (a)
The owner and/or operator of a trivial emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains trivial emission sources or units subject to 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.

6 NYCRR Subpart 201-6
This regulation applies to those terms and conditions which are subject to Title V permitting. It establishes the applicability criteria for Title V permits, the information to be included in all Title V permit applications as well as the permit content and terms of permit issuance. This rule also specifies the compliance, monitoring, recordkeeping, reporting, fee, and procedural requirements that need to be met to obtain a Title V permit, modify the permit and demonstrate conformity with applicable requirements as listed in the Title V permit. For permitting purposes, this rule specifies the need to identify and describe all emission units, processes and products in the permit application as well as providing the Department the authority to include this and any other information that it deems necessary to determine the compliance status of the facility.

6 NYCRR 201-6.4 (a) (4)
This mandatory requirement applies to all Title V facilities. It requires the permittee to provide information that the Department may request in writing, within a reasonable time, in order to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The request may include copies of records required to be kept by the permit.

6 NYCRR 201-6.4 (a) (7)
This is a mandatory condition that requires the owner or operator of a facility subject to Title V requirements to pay all applicable fees associated with the emissions from their facility.

6 NYCRR 201-6.4 (a) (8)
This is a mandatory condition for all facilities subject to Title V requirements. It allows the Department to inspect the facility to determine compliance with this permit, including copying records, sampling and
Division of Air Resources
Permit Review Report
Permit ID: 7-0501-00044/00007
Renewal Number: 2
10/13/2021

monitoring, as necessary.

6 NYCRR 201-6.4 (c)
This requirement specifies, in general terms, what information must be contained in any required compliance monitoring records and reports. This includes the date, time and place of any sampling, measurements and analyses; who performed the analyses; analytical techniques and methods used as well as any required QA/QC procedures; results of the analyses; the operating conditions at the time of sampling or measurement and the identification of any permit deviations. All such reports must also be certified by the designated responsible official of the facility.

6 NYCRR 201-6.4 (c) (2)
This requirement specifies that all compliance monitoring and recordkeeping is to be conducted according to the terms and conditions of the permit and follow all QA requirements found in applicable regulations. It also requires monitoring records and supporting information to be retained for at least 5 years from the time of sampling, measurement, report or application. Support information is defined as including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

6 NYCRR 201-6.4 (c) (3) (ii)
This regulation specifies any reporting requirements incorporated into the permit must include provisions regarding the notification and reporting of permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

6 NYCRR 201-6.4 (d) (4)
This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted semiannually.

6 NYCRR 201-6.4 (e)
Sets forth the general requirements for compliance certification content; specifies an annual submittal frequency; and identifies the EPA and appropriate regional office address where the reports are to be sent.

6 NYCRR 202-1.1
This regulation allows the department the discretion to require an emission test for the purpose of determining compliance. Furthermore, the cost of the test, including the preparation of the report are to be borne by the owner/operator of the source.

6 NYCRR 202-2.1
Requires that emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year.

6 NYCRR 202-2.5
This rule specifies that each facility required to submit an emission statement must retain a copy of the statement and supporting documentation for at least 5 years and must make the information available to department representatives.

6 NYCRR 211.2
This regulation limits opacity from sources to less than or equal to 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

6 NYCRR 215.2
Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

40 CFR Part 68
This Part lists the regulated substances and their applicability thresholds and sets the requirements for stationary sources concerning the prevention of accidental releases of these substances.

40 CFR Part 82, Subpart F
Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable level during the service, maintenance, repair, and disposal of appliances in accordance with section 608 of the Clean Air Act Amendments of 1990. This subpart applies to any person servicing, maintaining, or repairing appliances except for motor vehicle air conditioners. It also applies to persons disposing of appliances, including motor vehicle air conditioners, refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment. Those individuals, operations, or activities affected by this rule, may be required to comply with specified disposal, recycling, or recovery practices, leak repair practices, recordkeeping and/or technician certification requirements.

Facility Specific Requirements
In addition to Title V, NUCOR STEEL AUBURN INC has been determined to be subject to the following regulations:

40 CFR 52.21
This citation applies to facilities that are subject to Prevention of Significant Deterioration provisions; ie: facilities that are located in an attainment area and that emit pollutants which are listed in 40 CFR 52.21(b)(23)(i) .

40 CFR 60.272a (a) (1)
This citation states the particulate matter standard for electric arc furnaces and argon-oxygen decarburization vessels.

40 CFR 60.272a (a) (2)
This citation states the opacity standard for electric arc furnaces and argon-oxygen decarburization vessels.

40 CFR 60.272a (a) (3)
This citation states the opacity standard for electric arc furnaces and argon-oxygen decarburization vessels.

40 CFR 60.272a (b)
This citation states the opacity standard for dust handling systems.
40 CFR 60.274a (b)
This citation states the monitoring requirements for furnace static pressure, control system fan motor amperes and damper position, and volumetric flow rate.

40 CFR 60.274a (d)
This citation states the monthly inspection requirement for equipment related to the total capture system.

40 CFR 60.274a (h)
This citation states the monitoring requirements during performance tests.

40 CFR 60.275a (e)
This citation states the procedures to demonstrate compliance with the particulate matter standards.

40 CFR 60.276a (a)
This citation states the recordkeeping requirements for monitoring of operations.

40 CFR 63.10685 (a) (1)
This citation states the requirements to develop a pollution prevention plan for the production of steel other than leaded steel.

40 CFR 63.10685 (b) (1)
This citation states the requirement to comply with a site-specific plan for the removal of mercury switches from motor vehicle scrap.

40 CFR 63.10685 (c)
This citation states the recordkeeping and reporting requirements for Subpart YYYYY.
40 CFR 63.11115
This citation states the general duty to minimize emissions.

40 CFR 63.11116
This citation states the requirements for facilities with a monthly throughput less than 10,000 gallons of gasoline.

40 CFR Part 60, Subpart A
This regulation contains the General Provisions of 40 CFR 60. The facility owner is responsible for reviewing these general provisions in detail and complying with all applicable technical, administrative and reporting requirements.

40 CFR Part 63, Subpart A
The General Provisions in 40 CFR 63, Subpart A apply to facilities subject to other National Emission Standards for Hazardous Air Pollutants for Source Categories (NESHAP) regulations in 40 CFR 63. These rules are also known as MACT rules since they are based on attaining Maximum Achievable Control Technology. Each MACT rule has a table or section that describe which portions of the General Provisions apply to facilities covered by that particular rule and which portions are overridden or do not apply. Note that NESHAP regulations found in 40 CFR 61 do not trigger the general provisions of 40 CFR 63.

40 CFR Part 63, Subpart CCCCCC
This regulation applies to gasoline dispensing facilities that are not major sources of HAP emissions.

6 NYCRR 201-1.15
The existence of a valid permit shall not be construed as authorizing construction if construction is not commenced within 18 months after the date of permit issuance, if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time as determined by the department. Up to an 18-month extension may be granted by the department upon a showing of good cause in a written request by the facility owner or operator. The department may suspend, modify or revoke the permit or registration pursuant to Part 621 of this Title if construction or modification has not commenced within 18 months of issuance of such permit or registration, or construction has been discontinued for a period of more than 18 months at any point after issuance of such permit or registration.
6 NYCRR 201-6.4 (f)
This section describes the operational flexibility protocol proposed by the facility. The protocol will allow the facility owner or operator to make certain changes at the facility without the need for a permit modification. Changes made pursuant to the protocol must be approved by the Department, and will be rolled into the permit during the next renewal or modification.

6 NYCRR 201-6.5 (a)
This subdivision states that the Department shall include state enforceable conditions in Title V permits. State enforceable conditions related to regulations developed pursuant to the Climate Leadership and Community Protection Act (CLCPA) and Article 75 of New York State Environmental Conservation Law may be included in future versions of this permit, as applicable.

6 NYCRR 201-7.1
This section of Part 201-7 specifies the criteria that need to be met in order to restrict emissions to avoid Title V or other applicable requirements using federally enforceable permit conditions permit.

6 NYCRR 211.1
This regulation requires that 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.

6 NYCRR 212-2.1
Emissions of air contaminants to the outdoor atmosphere from any process emission source or emission point are restricted as follows:
(a) For an air contaminant listed in section 212-2.2 table 2 – high toxicity air contaminant list, of this Subpart, the facility owner or operator shall either limit the actual annual emissions from all process operations at the facility so as to not exceed the mass emission limit listed for the individual HTAC; or 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, of this Subpart for the environmental rating assigned to the contaminant by the department.
(b) For any air contaminant not listed on table 2, unless it is a solid particulate described in subdivision (c) of this section, the facility owner or operator shall not allow emissions of an air contaminant to violate the requirements specified in subdivision 212-2.3(a), table 3 – degree of air cleaning required for criteria air contaminants of this Subpart, or subdivision 212-2.3(b), table 4 – degree of air cleaning required for non-criteria air contaminants of this Subpart, as applicable, for the environmental rating assigned to the
contaminant by the department.

(c) For a solid particulate assigned an environmental rating of B or C emitted from a process emission source, the facility owner or operator shall not allow emissions of particulate to exceed the requirements specified in section 212-2.4 of this Subpart.

6 NYCRR 216.3
This section contains the particulate emission limitations for various confined processes in the iron and/or steel industry.

6 NYCRR 216.4
The opacity of emissions from iron and/or steel processes are limited by this section.

6 NYCRR 216.5
Owners and/or operators of emission points subject to this Part which emit nitrogen oxides or volatile organic compounds located at facilities described in subdivision (a) of this section must submit a compliance plan to the department by October 20, 1994. The compliance plan must either include the reasonably available control technology (RACT) analysis required by subdivision (c) of this section or a plan to limit the annual potential to emit below the applicability levels pursuant to subdivision (d) of this section.

6 NYCRR 230.4 (a)
This citation states the recordkeeping requirements for gasoline dispensing sites.

6 NYCRR 231-11.2 (b)
This subdivision is referred to as the "Reasonable Possibility" provisions. This citation lists the record keeping requirements for insignificant modifications that are less than 50% of the applicable significant project threshold including excluded emissions as defined in Part 231-4.1(b)(40)(i)(c).

6 NYCRR 231-11.2 (c)
This citation lists the record keeping requirements for insignificant modifications that are greater than 50% of the threshold including excluded emissions as defined in 231-4.1(b)(40)(i)(c) of this Part.

6 NYCRR 231-2.9 (a)
The provisions of Subpart 231-2 apply to new or modified major facilities. The contaminants of concern state-wide are nitrogen oxides and volatile organic compounds since New York State is located in the ozone transport region and because there are ozone non-attainment areas within the
state. In the New York City metropolitan area, carbon monoxide is also a non-attainment contaminant. In addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County.

The project emission potential for a proposed source project must be offset with emission reduction credits created or obtained pursuant to 6 NYCRR 231-2.6 or obtained from a state in which New York State has a reciprocal trading agreement in place.

6 NYCRR Subpart 201-7
This regulation sets forth an emission cap that cannot be exceeded by the facility. In this permit that cap is VOC emissions.

6 NYCRR Subpart 231-8
This subpart applies to modifications to existing major facilities in attainment areas (prevention of significant deterioration (PSD)).

Compliance Certification
Summary of monitoring activities at NUCOR STEEL AUBURN INC:

<table>
<thead>
<tr>
<th>Location Facility/EU/EP/Process/ES</th>
<th>Cond No.</th>
<th>Type of Monitoring</th>
</tr>
</thead>
<tbody>
<tr>
<td>---</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U-0001B</td>
<td>44</td>
<td>monitoring of process or control device parameters as surrogate</td>
</tr>
<tr>
<td>U-0001B/0001B</td>
<td>57</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>U-0001B/0001B</td>
<td>58</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>U-0001B/0001B</td>
<td>59</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>U-0001B/0001B</td>
<td>60</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>U-0001B/0001B</td>
<td>61</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>U-0001B/0001B</td>
<td>62</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>U-0001B/0001B</td>
<td>63</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>U-0001B/0001B</td>
<td>64</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>U-0001B/0001B</td>
<td>65</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>U-0001B/0001B</td>
<td>66</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>U-0001B/0001B</td>
<td>67</td>
<td>record keeping/maintenance procedures</td>
</tr>
<tr>
<td>U-0RB1/0RB2</td>
<td>72</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>U-0RB1/0RB2</td>
<td>73</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>U-0RB1/0RB2</td>
<td>74</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>U-0RB1/0RB2</td>
<td>75</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>U-0RB1/0RB2</td>
<td>76</td>
<td>record keeping/maintenance procedures</td>
</tr>
<tr>
<td>U-0RB1/0RB2</td>
<td>77</td>
<td>record keeping/maintenance procedures</td>
</tr>
<tr>
<td>U-0RB1/0RB2</td>
<td>78</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>U-0RB1/0RB2</td>
<td>79</td>
<td>continuous emission monitoring (cem)</td>
</tr>
<tr>
<td>FACILITY</td>
<td>34</td>
<td>record keeping/maintenance procedures</td>
</tr>
<tr>
<td>U-0001B/0001B/001</td>
<td>69</td>
<td>intermittent emission testing</td>
</tr>
<tr>
<td>U-0001B/0001B/001</td>
<td>70</td>
<td>monitoring of process or control device parameters as surrogate</td>
</tr>
<tr>
<td>U-0001B/-/001</td>
<td>46</td>
<td>monitoring of process or control device parameters as surrogate</td>
</tr>
</tbody>
</table>
Basis for Monitoring

Electric Arc Furnace Monitoring

**NOx** – The facility has a NOx limit on the EAF emission unit of 27.32 lb/hr on a 24-hour rolling average basis (2004 PSD permit). This emission unit also has a long term limit of 0.25 lb NOx/Ton steel produced on a 30-day rolling average basis. A NOx emission limit reduction (from 0.27 lb NOx/Ton Steel) was taken in order to avoid exceeding the PSD threshold of 40 tpy for this pollutant during the 2016 PSD permit. The EAF has an alternate NOx limit of 34.15 lb/hr during periods of start-up and shutdown which represents a 25% increase. These periods can be defined as periods of 1-hour following power on/off to the EAF. Compliance with each of these NOx limits for the EAF is maintained through the use of CEMS which continuously records emissions along with a flow monitor.
**Carbon Monoxide** – The facility has a CO limit on the EAF emission unit of 202.4 lb/hr on an 8-hour rolling average basis. The EAF also has 450 ppm (1-hr) and 150 ppm (30-day rolling) limits for CO from the 1983 PSD permit. This emission unit has a long term limit of 2.0 lb CO/Ton steel on a 30-day rolling average basis. As part of this permit modification, an ambient impact assessment was performed for this pollutant and found to be acceptable. The facility also has an alternate CO limit of 253.0 lb/hr during periods of start-up and shutdown of the EAF which represents a 25% increase. These periods can be defined as periods of 1-hour following power on/off to the EAF. Compliance with each of these Carbon Monoxide limits for the EAF is maintained through the use of CEMS which continuously records emissions along with a flow monitor. A BACT analysis was performed for this pollutant and it was deemed that no further control is economically feasible at this time.

**Sulfur Dioxide** – The facility has an SO2 limit on the EAF emission unit of 25.3 lb/hr on a 24-hour rolling average basis. This emission unit has a long term limit of 0.25 lb SO2/Ton steel on a 30-day rolling average basis. As part of this permit modification, an ambient impact assessment was performed for this pollutant and found to be acceptable. The 25% emissions limit increase during startup/shutdown was removed as part of this permit mod as the department deemed the limit increase unnecessary. SO2 emissions are largely determined by materials and not products of combustion. Compliance with each of these Sulfur Dioxide limits for the EAF is maintained through the use of CEMS which continuously records emissions. As part of the BACT analysis for this pollutant, different carbon sources (coal) were reviewed to examine lower sulfur possibilities. Switching to lower sulfur carbon sources would exceed the threshold for economic feasibility under BACT.

**Particulate Matter** – The facility has a Method 5D total particulate limit of 0.0018 gr/dscf for the EAF. This limit is enforced through stack testing conducted at least once per permit term. This limit was determined using the BACT Clearinghouse database as guidance. The EAF exhaust is sent through a positive pressure baghouse which is considered BACT for particulate matter control. As part of this permit modification, an ambient impact assessment was performed for this pollutant and found to be acceptable.

- Note: as part of the 2016 PSD modification, the lead surrogate PM limit from the 2004 PSD permit was reduced from 0.002gr/dscf to 0.0018 gr/dscf to match the particulate limit established under PM BACT for this permit to maintain consistency. This PM as a lead surrogate sampling requirement is also once a permit term.
PM-10 – The facility has a total PM-10 limit (filterable plus condensable) of 0.0043 gr/dscf for the EAF. This limit is enforced through stack testing conducted at least once per permit term. This limit was determined using the BACT Clearinghouse database as guidance as well as speciated PM data from another Nucor plant (Birmingham) which showed that PM 2.5 is roughly 93% of PM-10. This site was selected as they have a negative pressure traditional stack which allows them to run the cyclones required under Method 201A for PM10/PM 2.5.

Nucor Auburn’s EAF exhaust is sent through a positive pressure baghouse which is considered BACT for PM-10 control. Due to the nature of the baghouse configuration (positive pressure baghouse with a monovent exhaust) it is necessary to use reference method 5D for the filterable portion of PM sampling. It is not possible to sample this style of baghouse with Method 201A. Reference Method 202 is used for sampling the condensable portion of PM-10 emissions. As part of this permit modification, an ambient impact assessment was performed for this pollutant and found to be acceptable.

PM 2.5 - The facility has a total PM-2.5 limit (filterable plus condensable) of 0.0040 gr/dscf for the EAF. This limit is enforced through stack testing conducted at least once per permit term. This limit was proposed by the facility based on the BACT Clearinghouse for other EAF Facilities and historic method 5 PM sampling along with method 202 for condensables.

Nucor Auburn’s EAF exhaust is sent through a positive pressure baghouse which is considered BACT for PM-2.5 control. Due to the nature of the baghouse configuration (positive pressure baghouse with a monovent exhaust) it is necessary to use reference method 5D for the filterable portion of PM sampling. It is not possible to perform emissions sampling on this style of baghouse using Method 201A. Reference Method 202 is used for sampling the condensable portion of PM-10 emissions. As part of the 2016 PSD permit modification, an ambient impact assessment was performed for this pollutant and found to be acceptable.