



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 6-3048-00029/00134
Mod 0 Effective Date: 08/14/2003 Expiration Date: No expiration date.
Mod 1 Effective Date: 05/17/2005 Expiration Date: No expiration date.
Mod 2 Effective Date: 05/12/2008 Expiration Date: No expiration date.
Mod 3 Effective Date: 08/28/2012 Expiration Date: No expiration date.

Permit Issued To: SPECIAL METALS CORPORATION
4317 MIDDLE SETTLEMENT RD
NEW HARTFORD, NY 13413-9576

Contact: JOSEPH MACK
SPECIAL METALS CORP
4317 MIDDLE SETTLEMENT RD
NEW HARTFORD, NY 13413-5392
(315) 798-2098

Facility: SPECIAL METALS CORPORATION
4317 MIDDLE SETTLEMENT RD
NEW HARTFORD, NY 13413

Description:

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: PATRICK M CLEAREY
NYSDEC - REG 6
207 GENESEE ST
UTICA, NY 13501

Authorized Signature: _____ Date: ____ / ____ / ____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in 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

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

- Facility Inspection by the Department
- Relationship of this Permit to Other Department Orders and Determinations
 - Applications for permit renewals, modifications and transfers
 - Applications for Permit Renewals and Modifications
 - Permit modifications, suspensions or revocations by the Department
 - Permit modifications, suspensions or revocations by the Department
 - Permit Modifications, Suspensions and Revocations by the Department

Facility Level

- Submission of Applications for Permit Modification or Renewal
 - REGION 6 HEADQUARTERS
- Submission of application for permit modification or renewal-REGION 6 SUBOFFICE - UTICA



DEC GENERAL CONDITIONS
****** General Provisions ******
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 2-1: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 2-1.1:

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

Item 2-1.2:

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

Item 2-1.3:

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.

GENERAL CONDITIONS FOR PERMITS FOR THE CONSTRUCTION AND OPERATION OF FACILITIES



Applicable State Requirement: 6 NYCRR 621.13

Item 3.1:

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

Item 3.2:

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

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 2-2: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6 NYCRR 621.13

Item 2-2.1:

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

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

Condition 3-1: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6 NYCRR 621.13

Item 3-1.1:

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.



the permitted activity.

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

Item 4.1:

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

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

**** Facility Level ****

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

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 6 Headquarters
Division of Environmental Permits
State Office Building, 317 Washington Street
Watertown, NY 13601-3787
(315) 785-2245

Condition 2-3: Submission of application for permit modification or renewal-REGION 6 SUBOFFICE - UTICA
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 2-3.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 6 Sub-office
Division of Environmental Permits
State Office Building, 207 Genesee Street
Utica, NY 13501-2885
(315) 793-2555

New York State Department of Environmental Conservation

Permit ID: 6-3048-00029/00134

Facility DEC ID: 6304800029



Permit Under the Environmental Conservation Law (ECL)

**ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY
PERMIT**

IDENTIFICATION INFORMATION

Permit Issued To: SPECIAL METALS CORPORATION
4317 MIDDLE SETTLEMENT RD
NEW HARTFORD, NY 13413-9576

Facility: SPECIAL METALS CORPORATION
4317 MIDDLE SETTLEMENT RD
NEW HARTFORD, NY 13413

Authorized Activity By Standard Industrial Classification Code:
3313 - ELECTROMETALLURGICAL PRODUCTS

Mod 0 Permit Effective Date: 08/14/2003
date.

Permit Expiration Date: No expiration

Mod 1 Permit Effective Date: 05/17/2005
date.

Permit Expiration Date: No expiration

Mod 2 Permit Effective Date: 05/12/2008
date.

Permit Expiration Date: No expiration

Mod 3 Permit Effective Date: 08/28/2012
date.

Permit Expiration Date: No expiration



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 3-1 6 NYCRR 202-1.1: Required Emissions Tests
- 3-2 6 NYCRR 201-6.5 (g): Non Applicable requirements
- 3-3 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- *3-4 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *3-5 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *3-6 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 3-7 6 NYCRR 202-1.2: Notification
- 3-8 6 NYCRR 202-1.3: Acceptable procedures
- 3-9 6 NYCRR 202-1.4: Separate emission test by the commissioner
- 3-10 6 NYCRR 211.1: Air pollution prohibited
- 3-11 6 NYCRR 212.3 (b): Compliance Demonstration
- 3-12 6 NYCRR 212.6 (a): Compliance Demonstration
- 3-13 6 NYCRR Part 226: Compliance Demonstration
- 3-14 40CFR 63.6603(a), Subpart ZZZZ: Compliance Demonstration
- 3-15 40CFR 63.6625(e), Subpart ZZZZ: Compliance Demonstration
- 3-16 40CFR 63.6625(f), Subpart ZZZZ: Compliance Demonstration
- 3-17 40CFR 63.6625(j), Subpart ZZZZ: Compliance Demonstration
- 3-18 40CFR 63.6640(a), Subpart ZZZZ: Compliance Demonstration
- 3-19 40CFR 63.6640(a), Subpart ZZZZ: Compliance Demonstration
- 3-20 40CFR 63.6640(b), Subpart ZZZZ: Deviations and catalyst changing provisions for lean burn and compression ignition engines
- 3-21 40CFR 63.6640(f)(1), Subpart ZZZZ: Compliance Demonstration
- 3-22 40CFR 63.6655(e), Subpart ZZZZ: Compliance Demonstration
- 3-23 40CFR 63.6655(f), Subpart ZZZZ: Compliance Demonstration
- 3-24 40CFR 63.6660, Subpart ZZZZ: Compliance Demonstration

Emission Unit Level

EU=1-BOIL1

- 3-25 6 NYCRR 227-1.3 (a): Compliance Demonstration

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 16 ECL 19-0301: Contaminant List
- 3-26 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 18 6 NYCRR Subpart 201-5: Emission Unit Definition
- 19 6 NYCRR 211.2: Air pollution prohibited
- 3-27 6 NYCRR 211.2: Visible Emissions Limited

Emission Unit Level

- 20 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 21 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

NOTE: * preceding the condition number indicates capping.



FEDERALLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Sealing - 6 NYCRR 200.5

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

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

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

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

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

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

Item C: Maintenance of Equipment - 6 NYCRR 200.7

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.

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

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

- (a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.
- (b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

Item E: Emergency Defense - 6 NYCRR 201-1.5

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

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

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

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



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

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

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

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

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

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

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

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

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

Item J: Required Emission Tests - 6 NYCRR 202-1.1



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

Item K: Open Fires Prohibitions - 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.

Item L: 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 M: 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.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 3-1: Required Emissions Tests



Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 3-1.1:

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 3-2: Non Applicable requirements

Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-6.5 (g)

Item 3-2.1:

This section contains a summary of those requirements that have been specifically identified as being not applicable to this facility and/or emission units, emission points, processes and/or emission sources within this facility. The summary also includes a justification for classifying any such requirements as non-applicable.

(From Mod 3)

40 CFR Part 60, Subpart AAa

Reason: Federal regulation, 40 CFR 63 Subpart AAa defines a "electric arc furnace (EAF)" as a furnace that produces molten steel and heats the charge materials with electric arcs from carbon electrodes. At Special Metals, the electric slag remelt furnace (ESR) utilizes the nickel to conduct the current, not a carbon electrode. Therefore, subpart AAa is not applicable to the facility and the sources at this time.

40 CFR Part 63, Subpart YYYYYY

Reason: Federal regulation, 40 CFR 63 Subpart YYYYYY defines a "electric arc furnace (EAF)" as a furnace that produces molten steel and heats the charge materials with electric arcs from carbon electrodes. At Special Metals, the electric slag remelt furnace (ESR) utilizes the nickel to conduct the current, not a carbon electrode. Therefore, subpart YYYYYY is not applicable to the facility and the sources at this time.

40 CFR Part 63, Subpart ZZZZZZ

Reason: Federal regulation 40 CFR Subpart ZZZZZZ, defines "Other nonferrous foundry" means a facility that melts nonferrous metals other than aluminum, copper, or copper-based alloys and pours the nonferrous metals into molds to manufacture nonferrous metal castings (excluding die casting) that are complex shapes. For purposes of this subpart, this definition does not include primary or secondary metal producers that cast molten nonferrous metals to produce simple shapes such as sows, ingots, bars, rods, or billets. At Special metals, the facility only produces only ingots, and billets. Therefore, subpart ZZZZZZ is not



applicable to the facility and the sources at this time.

Condition 3-3: Facility Permissible Emissions
Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 3-3.1:

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:

per year	CAS No: 0NY075-00-0 (From Mod 3)	PTE: 190,000 pounds
	Name: PARTICULATES	
per year	CAS No: 0NY075-00-5 (From Mod 3)	PTE: 190,000 pounds
	Name: PM-10	
per year	CAS No: 0NY075-02-5 (From Mod 3)	PTE: 190,000 pounds
	Name: PM 2.5	

Condition 3-4: Capping Monitoring Condition
Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 3-4.1:

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 201-6.1 (a)

Item 3-4.2:

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

Item 3-4.3:

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 3-4.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an

New York State Department of Environmental Conservation

Permit ID: 6-3048-00029/00134

Facility DEC ID: 6304800029



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 3-4.5:

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 3-4.6:

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

Emission Unit: 1-FCE01	
Process: ESR	Emission Source: 829E4
Regulated Contaminant(s):	
CAS No: 0NY075-00-5	PM-10
CAS No: 0NY075-02-5	PM 2.5
CAS No: 0NY075-00-0	PARTICULATES

Item 3-4.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Facility owner shall ensure that emissions of Particulate, PM-10, and PM-2.5 remain less than 95 tons for each during any 12 month period. An emission test will be conducted within 180 days of startup of the source. The emissions test will be conducted according to 40 CFR 60, appendix A, Method 5, 201/201A & 202, or alternate approved methodology, to verify compliance of control efficiency of control equipment of 99.9%, emissions, and control device parameters as indicated in this permit.

The testing procedures shall be performed per the provisions of 6 NYCRR Part 202-1. If an alternative methodology is opted for, then a protocol should be submitted to the department for review sixty (60)days prior to the anticipated emissions test date.

Upper Permit Limit: 99.9 percent

Reference Test Method: metho5,201/201A, 202

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: Minimum-not to fall below average



parameter value determined by stack
test

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 3-5: Capping Monitoring Condition
Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 3-5.1:

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 201-6.1 (a)

Item 3-5.2:

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

Item 3-5.3:

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 3-5.4:

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 3-5.5:

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 3-5.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-00-5	PM-10
CAS No: 0NY075-02-5	PM 2.5
CAS No: 0NY075-00-0	PARTICULATES

Item 3-5.7:

Compliance Demonstration shall include the following monitoring:



Capping: Yes

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

Monitoring Description:

Facility owner shall ensure that emissions of Particulate, PM-10, and PM-2.5 remain less than 95 tons for each during any 12 month period.

Facility owner must maintain records that verify the facility's monthly Particulate, PM-10, and PM-2.5 emissions. These records must be maintained at the facility for a period of five years.

Reports will be submitted annually, in a format acceptable to the commissioner's representative, which document that the facility's Particulate, PM-10, and PM-2.5 emissions over any consecutive 12 month period were below 95 tons each. The annual reports must include information that documents the Particulate, PM-10, and PM-2.5 emissions from each emission source at the facility, including exempt and trivial activities. The report must also include all emission factors and all production data used in calculating the monthly Particulate, PM-10, and PM-2.5 emissions.

Any noncompliance with the Particulate, PM-10, and PM-2.5 emission limit in this condition must be reported by sending a copy of such record to the NYSDEC, Region 6, within 30 days of the occurrence.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 95 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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

Condition 3-6: Capping Monitoring Condition
Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 3-6.1:

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 201-6.1 (a)

New York State Department of Environmental Conservation

Permit ID: 6-3048-00029/00134

Facility DEC ID: 6304800029



control for Particulates PM-10, and PM-2.5 shall be based upon pressure drop range that was monitored during recent compliance testing.

Any noncompliance with the pressure drop range in this condition must be reported by sending a copy of such record to the NYSDEC, Region 6, within 30 days of the occurrence.

Parameter Monitored: PRESSURE CHANGE

Lower Permit Limit: 2 inches of water

Upper Permit Limit: 4 inches of water

Monitoring Frequency: DAILY

Averaging Method: RANGE - NOT TO FALL OUTSIDE OF STATED RANGE AT ANY TIME

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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

Condition 3-7: Notification
Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 202-1.2

Item 3-7.1:

A person who is required by the commissioner to submit a stack test report shall notify the commissioner, in writing, not less than 30 days prior to the test, of the time and date of the test. Such notification shall also include the acceptable procedures to be used to stack test including sampling and analytical procedures. Such person shall allow the commissioner, or his representative, free access to observe stack testing being conducted by such person.

Condition 3-8: Acceptable procedures
Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 202-1.3

Item 3-8.1:

Emission testing, sampling, and analytical determinations to ascertain compliance with this Subpart shall be conducted in accordance with test methods acceptable to the commissioner.

Condition 3-9: Separate emission test by the commissioner
Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 202-1.4

Item 3-9.1:

The commissioner may conduct separate or additional emission tests on the behalf of the State to ascertain compliance or noncompliance with any air pollution code, rule, or regulation.

Condition 3-10: Air pollution prohibited
Effective between the dates of 08/28/2012 and Permit Expiration Date



Applicable Federal Requirement:6 NYCRR 211.1

Item 3-10.1:

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.

Condition 3-11: Compliance Demonstration
Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 212.3 (b)

Replaces Condition(s) 2-1

Item 3-11.1:

The Compliance Demonstration activity will be performed for the Facility.

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

Item 3-11.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Emissions of solid particulates are limited to less than 0.15 grains of particulates per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis. The Department reserves the right to perform or require the performance of a Method 5 emissions evaluation at any time.

The permittee will conduct compliance verifications at the monitoring frequency stated below. These verifications include review of pertinent information relating to particulate emissions of the source, including but not limited to production rate, process material, air flow rate, control equipment parameters, visible emissions, etc. The permittee will confirm that during source operation all pertinent parameters (whether used to directly calculate particulate emission rate, or as surrogates) are within ranges that ensure compliance with the particulate emission rate.

Additionally, the permittee will investigate, in a timely manner, any instance where there is cause to believe that particulate emissions above 0.15 gr/dscf are occurring or



have occurred. These instances include but are not limited to process upsets, control device malfunctions or problems, abnormal visible emissions, complaints, etc. The permittee shall determine the cause of any exceedance, make the necessary correction, and verify that the excess emissions problem has been corrected.

Records of these verifications, investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: PARTICULATES

Upper Permit Limit: .15 grains per dscf

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.

The initial report is due 1/30/2013.

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

Condition 3-12: Compliance Demonstration

Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 212.6 (a)

Replaces Condition(s) 2-2

Item 3-12.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 3-12.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated



below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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

Condition 3-13: Compliance Demonstration

Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Part 226

Item 3-13.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 3-13.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

6NYCRR 226. Requirements for Cold Cleaning Degreasers
(Non Title V after 12/31/2003)

A. Equipment Specifications



The following types of control equipment must be used when conducting cold cleaning degreasing, solvent metal cleaning:

- (1) A cover which can be operated easily.
- (2) An internal drainage facility (under cover), if practical.
- (3) A control system that limits VOC emissions to those achievable with equipment having a freeboard ratio greater than or equal to 0.5, or a water cover when the solvent is insoluble in and heavier than water. This does not apply to remote reservoir degreasers.
- (4) Solvent with a vapor pressure of 1.0 mm Hg, or less, at 20 C.

B. Operating Requirements:

When cold cleaning, the clean parts must be drained at least 15 seconds or until dripping ceases.

C. General Requirements:

A Person conducting solvent metal cleaning must:

- (1) Store solvent in covered containers and transfer or dispose of waste solvent in such a manner that less than 20 percent of the waste solvent (by weight) can evaporate into the atmosphere.
- (2) Maintain equipment to minimize leaks and fugitive emissions.
- (3) Display at the equipment location a conspicuous summary of proper operating procedures consistent with minimizing emissions of VOCs.
- (4) Keep the degreaser cover closed except when:
 - (a) parts are being placed into or being removed from the degreaser;
 - (b) adding or removing solvent from the degreaser;
 - (c) no solvent is in the degreaser; or
 - (d) when manually cleaning metal parts in the cold cleaning degreaser.
- (5) Create and retain a record of solvent consumption for five years. This record must be made available to the Department upon request.
- (6) Not clean sponges, fabric, wood, leather, paper products and other absorbent materials in a degreaser.
- (7) If using a cold cleaning degreaser that is subject to paragraph 226.3(a)(4), retain a record of the following three items for five years and provide these records to the Department upon request. An invoice, a bill of sale, a certificate covering multiple sales, a Material Safety Data Sheet (MSDS), or other appropriate documentation



Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6625(e), Subpart ZZZZ

Item 3-15.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 3-15.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of any of the following stationary RICE must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions:

- (1) An existing stationary RICE with a site rating of less than 100 brake horsepower located at a major source of HAP emissions;
- (2) An existing emergency or black start stationary RICE with a site rating of less than or equal to 500 brake horsepower located at a major source of HAP emissions;
- (3) An existing emergency or black start stationary RICE located at an area source of HAP emissions;
- (4) An existing non-emergency, non-black start stationary compression ignition RICE with a site rating less than or equal to 300 brake horsepower located at an area source of HAP emissions;
- (5) An existing non-emergency, non-black start 2 stroke lean burn stationary RICE located at an area source of HAP emissions;
- (6) An existing non-emergency, non-black start landfill or digester gas stationary RICE located at an area source of HAP emissions;
- (7) An existing non-emergency, non-black start 4 stroke lean burn stationary RICE with a site rating less than or equal to 500 brake horsepower located at an area source of HAP emissions;
- (8) An existing non-emergency, non-black start 4 stroke



rich burn stationary RICE with a site rating less than or equal to 500 brake horsepower located at an area source of HAP emissions;

(9) An existing, non-emergency, non-black start 4 stroke lean burn stationary RICE with a site rating greater than 500 brake horsepower located at an area source of HAP emissions that is operated 24 hours or less per calendar year; and

(10) An existing, non-emergency, non-black start 4 stroke rich burn stationary RICE with a site rating greater than 500 brake horsepower located at an area source of HAP emissions that is operated 24 hours or less per calendar year.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 3-16: Compliance Demonstration
Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6625(f), Subpart ZZZZ

Item 3-16.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 3-16.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners or operators of an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, must install a non-resettable hour meter if one is not already installed.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 3-17: Compliance Demonstration
Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6625(j), Subpart ZZZZ

Item 3-17.1:

The Compliance Demonstration activity will be performed for the Facility.

New York State Department of Environmental Conservation

Permit ID: 6-3048-00029/00134

Facility DEC ID: 6304800029



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A facility that has existing RICE that is:

Emergency and black start:

- with a site rating less than or equal to 500 brake horsepower located at a major source of HAP emissions,
- or
- located at an area source of HAP emissions

Non-emergency:

- with a site rating less than 100 brake horsepower located at a major source of HAP emissions,
- compression ignition (CI) RICE with a site rating less than or equal to 300 brake horsepower located at an area source of HAP emissions,
- 2 stroke lean burn (2SLB) RICE located at an area source of HAP emissions,
- landfill or digester gas stationary spark ignition RICE located at an area source of HAP emissions,
- 4 stroke lean burn (4SLB) RICE with a site rating less than or equal to 500 brake horsepower located at an area source of HAP emissions,
- 4 stroke rich burn (4SRB) RICE with a site rating less than or equal to 500 brake horsepower located at an area source of HAP emissions,
- 4SLB RICE with a site rating greater than 500 brake horsepower located at an area source of HAP emissions that operate 24 hours or less per calendar year, or
- 4SRB RICE with a site rating greater than 500 brake horsepower located at an area source of HAP emissions that operate 24 hours or less per calendar year

Then to demonstrate continuous compliance with work or management practices the facility must:

1 - operate and maintain the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; and

2 - keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.



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

Condition 3-19: Compliance Demonstration
Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.6640(a), Subpart ZZZZ

Item 3-19.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 3-19.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A facility that has existing RICE that is:

Emergency and black start:

- with a site rating less than or equal to 500 brake horsepower located at a major source of HAP emissions,
- or
- located at an area source of HAP emissions

Non-emergency:

- with a site rating less than 100 brake horsepower located at a major source of HAP emissions,
- compression ignition (CI) RICE with a site rating less than or equal to 300 brake horsepower located at an area source of HAP emissions,
- 2 stroke lean burn (2SLB) RICE located at an area source of HAP emissions,
- landfill or digester gas stationary spark ignition RICE located at an area source of HAP emissions,
- 4 stroke lean burn (4SLB) RICE with a site rating less than or equal to 500 brake horsepower located at an area source of HAP emissions,
- 4 stroke rich burn (4SRB) RICE with a site rating less than or equal to 500 brake horsepower located at an area source of HAP emissions,
- 4SLB RICE with a site rating greater than 500 brake horsepower located at an area source of HAP emissions that operate 24 hours or less per calendar year, or
- 4SRB RICE with a site rating greater than 500 brake horsepower located at an area source of HAP emissions that operate 24 hours or less per calendar year

Then to demonstrate continuous compliance with work or management practices the facility must:

- 1 - develop and follow a site specific maintenance plan which must provide to the extent practicable for the



maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions; and

2 - keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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

Condition 3-20: Deviations and catalyst changing provisions for lean burn and compression ignition engines
Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6640(b), Subpart ZZZZ

Item 3-20.1:

Facility must report each instance in which it did not meet each emission limitation or operating limitation in Tables 1a, 1b, 2a, 2b, 2c, and 2d of 40 CFR 63 Subpart ZZZZ that apply. These instances are deviations from the emission and operating limitations in 40 CFR 63 Subpart ZZZZ. These deviations must be reported according to the requirements in 40 CFR 63.6650.

If facility changes an oxidation catalyst, it must re-establish the values of the operating parameters measured during the initial performance test. When re-establishing the values of operating parameters, facility must also conduct a performance test, within 180 days of the oxidation catalyst change, to demonstrate that it is meeting the required emission limitation applicable to each stationary RICE. The performance test on the new oxidation catalyst may be scheduled to occur with the next required semi-annual carbon monoxide performance test.

The facility must keep records readily accessible in hard copy or electronic form for at least 5 years after the date of each deviation according to 40 CFR 63.10(b)(1).

Condition 3-21: Compliance Demonstration
Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6640(f)(1), Subpart ZZZZ

Item 3-21.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 3-21.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES



Monitoring Description:

The owner or operator of an existing emergency stationary RICE with a site rating of less than or equal to 500 brake horsepower located at a major source of HAP emissions, a new or reconstructed emergency stationary RICE with a site rating of more than 500 brake horsepower located at a major source of HAP emissions that was installed on or after June 12, 2006, or an existing emergency stationary RICE located at an area source of HAP emissions must operate the emergency stationary RICE according to the requirements in paragraphs (i) through (iii) below. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (i) through (iii) below, is prohibited. If you do not operate the engine according to the requirements in paragraphs (i) through (iii) below, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.

(i) There is no time limit on the use of emergency stationary RICE in emergency situations.

(ii) The facility may operate the emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the EPA Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.

(iii) The facility may operate the emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical



blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph, as long as the power provided by the financial arrangement is limited to emergency power.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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

Condition 3-22: Compliance Demonstration

Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6655(e), Subpart ZZZZ

Item 3-22.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 3-22.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that he/she operated and maintained the stationary RICE and after-treatment control device (if any) according to the maintenance plan for the following stationary RICE;

(1) An existing stationary RICE with a site rating of less than 100 brake horsepower located at a major source of HAP emissions.

(2) An existing stationary emergency RICE.

(3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to subpart ZZZZ.



Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 3-23: Compliance Demonstration
Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6655(f), Subpart ZZZZ

Item 3-23.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 3-23.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

Operation of any of the stationary RICE in paragraphs (1) or (2) below, requires the owner/operator to keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.

(1) An existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines.

(2) An existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines.

Monitoring Frequency: CONTINUOUS
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 3-24: Compliance Demonstration
Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6660, Subpart ZZZZ

Item 3-24.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 3-24.2:

Compliance Demonstration shall include the following monitoring:



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Records must be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1).

As specified in 40 CFR 63.10(b)(1), the owner or operator must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

The owner or operator must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

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

Condition 3-25: Compliance Demonstration

Effective between the dates of 08/28/2012 and Permit Expiration Date

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

Replaces Condition(s) 2-3

Item 3-25.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-BOIL1

Item 3-25.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible



emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Method 9

Monitoring Frequency: DAILY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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



STATE ONLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS
This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)

Where emission source owners and/or operators keep records pursuant to compliance with the operational flexibility requirements of 6 NYCRR Subpart 201-5.4(b)(1), and/or the emission capping requirements of 6 NYCRR Subparts 201-7.2(d), 201-7.3(f), 201-7.3(g), 201-7.3(h)(5), 201-7.3(i) and 201-7.3(j), the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Emission source owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department of receipt of the request.

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 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 only enforceable.



Condition 16: Contaminant List

Effective between the dates of 08/14/2003 and Permit Expiration Date

Applicable State Requirement:ECL 19-0301

Item 16.1:

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

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

CAS No: 0NY075-00-5
Name: PM-10

CAS No: 0NY075-02-5
Name: PM 2.5

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

Condition 3-26: Unavoidable noncompliance and violations

Effective between the dates of 08/28/2012 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 201-1.4

Replaces Condition(s) 17

Item 3-26.1:

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

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

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon



as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

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

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

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

Condition 18: Emission Unit Definition

Effective between the dates of 08/14/2003 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 18.1(From Mod 3):

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

Emission Unit: 1-ACID1

Emission Unit Description:

Acid etching/metal cleaning. Acid station is maintained in the bar and rolling plant. Fumes are exhausted to an acid scrubber then discharged to atmosphere.

Building(s): BRP

Item 18.2(From Mod 3):

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

Emission Unit: 1-BOIL1

Emission Unit Description:

Natural gas fired boilers serving pumping demand of VIM furnace and heating demand of facility office areas. The boilers are no longer capable of burning back-up fuel. No.9 VIM boiler is limited to 49 mmbtu/hr heat input and is the only boiler in use at this time. A second smaller package boiler is operable as a backup unit in the event that no.9 boiler cannot be operated.



Building(s): MP

Item 18.3(From Mod 3):

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

Emission Unit: 1-FCE01

Emission Unit Description:

Emission unit consists of furnaces used for melting and refining of metal alloys. Vacuum-Induction-Melt (VIM) furnaces are used for initial melting and molding of virgin and recycled metal. Vacuum-Arc-Remelt (VAR) and Electro-Slag-Remelt (ESR) furnaces are used in refining of the alloys in order to remove impurities.

Building(s): MP

Item 18.4(From Mod 3):

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

Emission Unit: 1-GRIND

Emission Unit Description:

Emission unit consists of grinding operations to remove surface scale and create a smooth uniform surface on the billets. Three large grinders, one spot grinder and 4 small grinders are located in the bar and rolling mill. One large grinder and seven spec imen grinders are located in the main plant. All grinders are exhausted to emission control devices. Particulate matter, trace chromium, cobalt and nickel, and vocs are emitted. The particulate matter and vocs originate from the abrasive wheels.

Building(s): BRP
MP

Item 18.5(From Mod 3):

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

Emission Unit: 1-OVEN1

Emission Unit Description:

Ovens used for pre-heating and baking of refractories. Refractories are made from a motar-like material and used to line the metal molds prior to melting to facilitate removal of the formed metal.

Building(s): MP

Item 18.6(From Mod 3):

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

Emission Unit: 1-RMIX1

Emission Unit Description:

Refractory mortar mixer. Mixing operation where refractory is prepared for molding before preheating and baking. Particulate matter is controlled by the dust collector and exhausted to the building interior. The stone mixer is



Emission Unit: 1-ACID1

Emission Point: 63408
Height (ft.): 52 Diameter (in.): 40
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: BRP

Item 20.2(From Mod 3):

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

Emission Unit: 1-BOIL1

Emission Point: 81902
Height (ft.): 54 Diameter (in.): 36
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: MP

Emission Point: 85200
Height (ft.): 28 Diameter (in.): 14
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: MP

Item 20.3(From Mod 3):

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

Emission Unit: 1-FCE01

Emission Point: 81903
Height (ft.): 66 Diameter (in.): 24
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: MP

Emission Point: 82001
Height (ft.): 12 Diameter (in.): 6
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: MP

Emission Point: 82002
Height (ft.): 12 Diameter (in.): 6
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: MP

Emission Point: 82003
Height (ft.): 46 Diameter (in.): 4
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: MP

Emission Point: 82005
Height (ft.): 6 Diameter (in.): 12
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: MP

Emission Point: 82010
Height (ft.): 8 Diameter (in.): 8
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: MP

Emission Point: 82012
Height (ft.): 46 Diameter (in.): 4
NYTMN (km.): 4769.697 NYTME (km.): 472.14 Building: MP



Emission Point: 82901
Height (ft.): 48 Length (in.): 14 Width (in.): 8
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: MP

Emission Point: 82902
Height (ft.): 48 Diameter (in.): 14
NYTMN (km.): 4769.662 NYTME (km.): 472.24 Building: MP

Emission Point: 82903
Height (ft.): 50 Diameter (in.): 14
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: MP

Emission Point: 82904
Height (ft.): 22 Length (in.): 8 Width (in.): 8
NYTMN (km.): 4769.635 NYTME (km.): 472.009 Building: MP

Item 20.4(From Mod 3):

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

Emission Unit: 1-GRIND

Emission Point: 54401
Height (ft.): 22 Length (in.): 14 Width (in.): 14
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: MP

Emission Point: 54403
Height (ft.): 22 Length (in.): 14 Width (in.): 14
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: MP

Emission Point: 54406
Height (ft.): 22 Length (in.): 14 Width (in.): 14
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: MP

Emission Point: 64300
Height (ft.): 12 Diameter (in.): 14
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: BRP

Emission Point: 64800
Height (ft.): 48 Diameter (in.): 14
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: BRP

Emission Point: 72500
Height (ft.): 46 Diameter (in.): 32
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: BRP

Item 20.5(From Mod 3):

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

Emission Unit: 1-OVEN1

Emission Point: 85001



Height (ft.): 24 Diameter (in.): 12
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: MP

Emission Point: 85002
Height (ft.): 24 Diameter (in.): 10
NYTMN (km.): 4769.323 NYTME (km.): 472.032 Building: MP

Emission Point: 85003
Height (ft.): 24 Diameter (in.): 8
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: MP

Item 20.6(From Mod 3):

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

Emission Unit: 1-RMIX1

Emission Point: 85004
Height (ft.): 16 Length (in.): 14 Width (in.): 14
NYTMN (km.): 4769.323 NYTME (km.): 472.032 Building: MP

Item 20.7(From Mod 3):

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

Emission Unit: 1-SAW01

Emission Point: 54405
Height (ft.): 22 Length (in.): 14 Width (in.): 14
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: MP

Emission Point: 63600
Height (ft.): 46 Diameter (in.): 14
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: BRP

Emission Point: 63701
Height (ft.): 46 Length (in.): 32 Width (in.): 14
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: BRP

Emission Point: 63702
Height (ft.): 46 Length (in.): 32 Width (in.): 14
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: BRP

Emission Point: 63722
Height (ft.): 46 Length (in.): 32 Width (in.): 14
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: BRP

Emission Point: 63900
Height (ft.): 44 Diameter (in.): 4
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: BRP

Emission Point: 64516
Height (ft.): 46 Diameter (in.): 16
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: BRP



Emission Point: 645SS
Height (ft.): 46 Diameter (in.): 14
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: BRP

Emission Point: 64603
Height (ft.): 18 Diameter (in.): 8
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: BRP

Emission Point: 64604
Height (ft.): 18 Diameter (in.): 8
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: BRP

Emission Point: 80902
Height (ft.): 26 Length (in.): 12 Width (in.): 6
NYTMN (km.): 4769.628 NYTME (km.): 472.196 Building: MP

**Condition 21: Process Definition By Emission Unit
Effective between the dates of 08/14/2003 and Permit Expiration Date**

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 21.1(From Mod 3):

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

Emission Unit: 1-ACID1
Process: AC1 Source Classification Code: 3-09-011-02
Process Description:

Acid etching/metal cleaning operation. Small scale batch cleaning of metal pieces. Fumes are exhausted to acid scrubber.

Emission Source/Control: 63408 - Control
Control Type: GAS SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: 63407 - Process

Item 21.2(From Mod 3):

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

Emission Unit: 1-BOIL1
Process: NG1 Source Classification Code: 1-01-006-02
Process Description:

Boilers firing natural gas. No. 9 boiler serves VIM No.9 furnace for vacuum pumping purposes and also supplies heat for the facility. The cleaver-brooks package boiler (cb boiler) is no longer in use and serves only as a backup in the event that No.9 boiler cannot be operated.

Emission Source/Control: 81902 - Combustion
Design Capacity: 49 million Btu per hour



Emission Source/Control: 85200 - Combustion
Design Capacity: 8 million Btu per hour

Item 21.3(From Mod 3):

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

Emission Unit: 1-FCE01
Process: ESR Source Classification Code: 3-03-006-54
Process Description:

Electro-slag-remelt furnaces. Molded alloys are remelted under a molten slag layer for refining. Impurities are absorbed by the slag. Emissions are captured and exhausted to a fabric filter for collection prior to discharge. Particulate matter and trace levels of nickel and chromium were measured during source testing. The electro-slag-remelt furnaces utilize the nickel to conduct the current, not a carbon electrode.

Emission Source/Control: 829E1 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 829E2 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 829E3 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 829E4 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 82901 - Process

Emission Source/Control: 82902 - Process

Emission Source/Control: 82903 - Process

Emission Source/Control: 82904 - Process

Emission Source/Control: 82905 - Process

Item 21.4(From Mod 3):

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

Emission Unit: 1-FCE01
Process: VAR Source Classification Code: 3-04-010-06
Process Description:

Vacuum-arc-remelt furnaces. Molded electrodes are remelted under vacuum conditions for refining. The only source of emissions from this unit is the vacuum exhaust. 6 NYCRR 201-3.3(c)(62) designates "vacuum producing devices where only ambient air and the oil emissions from the vacuum producing mechanism itself are exhausted;" as



trivial activities. However, since air from the melt chamber which has come in contact with the molten metals is exhausted, source testing was performed to identify and quantify potential emissions. Particulate matter (including oil mists) and trace amounts of HAP metals (chromium, cobalt, nickel) were detected, and therefore the furnaces have been included in this permit.

- Emission Source/Control: 82001 - Process
- Emission Source/Control: 82002 - Process
- Emission Source/Control: 82003 - Process
- Emission Source/Control: 82004 - Process
- Emission Source/Control: 82005 - Process
- Emission Source/Control: 82007 - Process
- Emission Source/Control: 82009 - Process
- Emission Source/Control: 82010 - Process
- Emission Source/Control: 82011 - Process
- Emission Source/Control: 82012 - Process
- Emission Source/Control: 82013 - Process

Item 21.5(From Mod 3):

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

Emission Unit: 1-FCE01

Process: VIM

Source Classification Code: 3-04-010-06

Process Description:

Vacuum-induction-melt furnaces. Virgin and recycled metals are preweighed in appropriate proportions for the specified alloy, then charged in the furnace under continuous vacuum. Melting is accomplished by induction coils surrounding the melting chamber. The resulting cylindrical mass is termed an "electrode." the only source of emissions from this unit is the vacuum exhaust. 6 NYCRR 201-3.3(c)(62) designates "vacuum producing devices where only ambient air and the oil emissions from the vacuum producing mechanism itself are exhausted;" as trivial activities. However, since air from the melt chamber which has come in contact with the molten metals is exhausted, source testing was performed to identify and quantify potential emissions. Particulate matter (including oil mists) and trace amounts of HAP metals (chromium, cobalt, nickel) were detected, and therefore the furnaces have



been included in this permit. VIM #9 is the largest unit and processes the greatest quantity of metal.

Emission Source/Control: 81903 - Process

Item 21.6(From Mod 3):

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

Emission Unit: 1-GRIND

Process: GR1

Source Classification Code: 3-04-010-11

Process Description:

Large grinders used to remove gross surface contamination from refined billets. Abrasive grinding wheels used contain small percentages of VOC's and HAP's. Emissions are exhausted to control devices prior to discharge. Particulate matter, trace chromium, cobalt and nickel, and VOC's are emitted from these sources.

Emission Source/Control: 648DC - Control

Control Type: FABRIC FILTER

Emission Source/Control: 648HP - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 725DC - Control

Control Type: FABRIC FILTER

Emission Source/Control: 64800 - Process

Emission Source/Control: 71500 - Process

Emission Source/Control: 72500 - Process

Item 21.7(From Mod 3):

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

Emission Unit: 1-GRIND

Process: GR2

Source Classification Code: 3-04-010-11

Process Description:

Small grinders are used to remove surface contamination and flaws to provide a smooth, uniform surface. Abrasive grinding wheels used to contain small percentages of VOC's and HAP's. Grinders are exhausted to control devices prior to discharge. Particulate matter, trace chromium, cobalt and nickel, and VOC's are emitted from these sources.

Emission Source/Control: 63201 - Control

Control Type: MIST ELIMINATOR

Emission Source/Control: 63404 - Control

Control Type: FABRIC FILTER



Emission Source/Control: 643DC - Control
Control Type: FABRIC FILTER

Emission Source/Control: BT010 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BT015 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 63200 - Process

Emission Source/Control: 63401 - Process

Emission Source/Control: 63402 - Process

Emission Source/Control: 63403 - Process

Emission Source/Control: 64300 - Process

Emission Source/Control: 64710 - Process

Emission Source/Control: 64715 - Process

Item 21.8(From Mod 3):

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

Emission Unit: 1-GRIND

Process: GR3

Source Classification Code: 3-04-010-11

Process Description:

Specimen grinders. Seven specimen grinders are used to shape metal samples for strength testing. Each unit is exhausted to a fabric filter prior to discharge within the building.

Emission Source/Control: MC006 - Control
Control Type: FABRIC FILTER

Emission Source/Control: MC007 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 54401 - Process

Emission Source/Control: 54402 - Process

Emission Source/Control: 54403 - Process

Emission Source/Control: 54404 - Process

Emission Source/Control: 54406 - Process

Emission Source/Control: 54407 - Process



Emission Source/Control: 54408 - Process

Item 21.9(From Mod 3):

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

Emission Unit: 1-OVEN1
Process: BAK Source Classification Code: 3-05-005-04
Process Description:
Refractory bake oven. Natural gas-fired unit (2 mmbtu/hr)
used to bake the refractory before use in the metal molds.
Emission consist of particulate matter and small
concentrations of hydrochloric acid and chlorine.

Emission Source/Control: 85001 - Combustion
Design Capacity: 2 million Btu per hour

Emission Source/Control: 85002 - Combustion
Design Capacity: 2 million Btu per hour

Item 21.10(From Mod 3):

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

Emission Unit: 1-OVEN1
Process: PRE Source Classification Code: 3-05-005-04
Process Description:
Refractory pre-heat oven. Natural gas-fired unit (0.6
mmbtu/hr) used to preheat refractory material before
baking. Emissions consist of particulate matter and small
concentrations of hydrochloric acid and chlorine.

Emission Source/Control: 85003 - Combustion
Design Capacity: 0.6 million Btu per hour

Item 21.11(From Mod 3):

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

Emission Unit: 1-RMIX1
Process: RMX Source Classification Code: 3-05-005-02
Process Description:
Refractory mortar mixer. Mortar is loaded into the mixer
from bags. Particulate matter generated from loading and
mixing is collected and controlled using a fabric filter.
The filtered air is exhausted within the building.
Emission calculations are based on source testing.

Emission Source/Control: 850CD - Control
Control Type: FABRIC FILTER

Emission Source/Control: 850DC - Control
Control Type: FABRIC FILTER

Emission Source/Control: 85004 - Process



Emission Source/Control: 85005 - Process

Item 21.12(From Mod 3):

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

Emission Unit: 1-SAW01

Process: SW1

Source Classification Code: 3-09-030-05

Process Description:

Saws used to cut billets. Abrasive wheels used contain small percentages of cured phenol/formaldehyde resin and VOC's. One saw (m-160 bar cut-off) uses an abrasive wheel which contains 0.01-1.0% dibutyl phthalate.

Emission Source/Control: 63801 - Control

Control Type: MIST ELIMINATOR

Emission Source/Control: 645MC - Control

Control Type: MIST ELIMINATOR

Emission Source/Control: 64605 - Control

Control Type: MIST ELIMINATOR

Emission Source/Control: ORB01 - Control

Control Type: MIST ELIMINATOR

Emission Source/Control: ORB02 - Control

Control Type: MIST ELIMINATOR

Emission Source/Control: 63600 - Process

Emission Source/Control: 63701 - Process

Emission Source/Control: 63702 - Process

Emission Source/Control: 63800 - Process

Emission Source/Control: 63900 - Process

Emission Source/Control: 64516 - Process

Emission Source/Control: 645SS - Process

Emission Source/Control: 64601 - Process

Emission Source/Control: 64602 - Process

Emission Source/Control: 64603 - Process

Emission Source/Control: 64604 - Process

Emission Source/Control: 71401 - Process

New York State Department of Environmental Conservation

Permit ID: 6-3048-00029/00134

Facility DEC ID: 6304800029



Item 21.13(From Mod 3):

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

Emission Unit: 1-SAW01

Process: SW2

Source Classification Code: 3-09-030-05

Process Description:

Cut-off saws in the main plant for cutting metal samples.

Emission Source/Control: 54405 - Process

Emission Source/Control: 80902 - Process

