

New York State Department of Environmental Conservation
Facility DEC ID: 9140900071



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 9-1409-00071/00001
Mod 0 Effective Date: 05/07/2003 Expiration Date: No expiration date.
Mod 1 Effective Date: 07/19/2004 Expiration Date: No expiration date.

Permit Issued To: METALICO ALUMINUM RECOVERY INC
186 NORTH AVENUE EAST
CRANFORD, NJ 07016

Contact: METALICO ALUMINUM RECOVERY INC
186 NORTH AVENUE EAST
CRANFORD, NJ 07016
(908) 497-9610

Facility: METALICO ALUMINUM RECOVERY INC
1951 HAMBURG TURNPIKE BLDG GC
LACKAWANNA, NY 14218

Contact: JON MARANTZ
PO BOX 6601
BUFFALO, NY 14240
(716) 818-6744

Description:

Metalico currently is permitted to operate two Aluminum sweat furnaces with after burner for control of emissions. The requirements of 40 CFR 63 subpart RRR, National Emission Standards for Hazardous Air Pollutants apply. This permit modification allows Metalico to construct and operate a rotary aluminum smelting furnace rated to process 5 tons per hour of metal charged.

The rotary furnace is also subject to the requirements of 40 cfr 63 subpart RRR and fits the definition of a group 1 furnace. The furnace is identified as emission unit U0002. Emissions are controlled by a cyclone and baghouse with lime injection. The baghouse will also include a bag detection leak system and alarm.

The facility emissions are still below Title V thresholds and therefore qualifies as an area source. A title V permit must be submitted by December 9, 2005 in accordance with the applicability requirements of 40 cfr 63.1500(e). The furnace is subject to the 4 grams of dioxin/furan TEQ per ton limit and must perform a stack test within 90 days of startup to demonstrate compliance. A bag leak detection system as well as monitoring of temperature will aid in assuring baghouse integrity. Metalico currently is permitted to operate two Aluminum sweat furnaces with after burner for control of emissions. The requirements of 40 CFR 63 subpart RRR, National Emission Standards for Hazardous Air Pollutants apply. This permit modification allows Metalico to construct and operate a rotary aluminum smelting

New York State Department of Environmental Conservation
Facility DEC ID: 9140900071



furnace rated to process 5 tons per hour of metal charged.

The rotary furnace is also subject to the requirements of 40 cfr 63 subpart RRR and fits the definition of a group 1 furnace. The furnace is identified as emission unit U0002. Emissions are controlled by a cyclone and baghouse with lime injection. The baghouse will also include a bag detection leak system and alarm.

The facility emissions are still below Title V thresholds and therefore qualifies as an area source. A title V permit must be submitted by December 9, 2005 in accordance with the applicability requirements of 40 cfr 63.1500(e). The furnace is subject to the 4 grams of dioxin/furan TEQ per ton limit and must perform a stack test within 90 days of startup to demonstrate compliance. A bag leak detection system as well as monitoring of temperature will aid in assuring baghouse integrity.

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.

nit Administrator:

DAVID S DENK
DIVISION OF ENVIRONMENTAL PERMITS
270 MICHIGAN AVE
BUFFALO, NY 14203-2999

Authorized Signature: _____ Date: ____ / ____ / ____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

Facility Inspection by the Department

Relationship of this Permit to Other Department Orders and Determinations

Applications for Permit Renewals and Modifications

Permit Modifications, Suspensions and Revocations by the Department

Facility Level

Submission of Applications for Permit Modification or Renewal -REGION 9
HEADQUARTERS



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 3: Applications for Permit Renewals and Modifications
Applicable State Requirement: 6NYCRR 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

New York State Department of Environmental Conservation
Facility DEC ID: 9140900071



transfer of ownership.

Condition 4: Permit Modifications, Suspensions and Revocations by the Department
Applicable State Requirement: 6NYCRR 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 9 HEADQUARTERS
Applicable State Requirement: 6NYCRR 621.5(a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:

NYSDEC Regional Permit Administrator
Region 9 Headquarters
Division of Environmental Permits
270 Michigan Avenue

Buffalo, NY 14203-2999

(716) 851-7165



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY PERMIT

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186 NORTH AVENUE EAST
CRANFORD, NJ 07016

Facility: METALICO ALUMINUM RECOVERY INC
1951 HAMBURG TURNPIKE BLDG GC
LACKAWANNA, NY 14218

Authorized Activity By Standard Industrial Classification Code:
3341 - SECONDARY NONFERROUS METALS



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1-1 40CFR 63.1500(e), Subpart RRR: Compliance Demonstration
- 1-2 40CFR 63.1506(b), Subpart RRR: Compliance Demonstration
- 1-3 40CFR 63.1506(p), Subpart RRR: Operating requirements - Corrective Action
- 1-4 40CFR 63.1510(b), Subpart RRR: Monitoring and Compliance Requirements - OM&M Plan
- 1 40CFR 63.1515, Subpart RRR: Secondary Aluminum Notifications
- 1-5 40CFR 63.1516, Subpart RRR: Secondary Aluminum MACT Reports
- 1-6 40CFR 63.1517, Subpart RRR: Secondary Aluminum MACT Recordkeeping

Emission Unit Level

EU=A-00001

- 2 6NYCRR 212.4(a): Compliance Demonstration
- 3 6NYCRR 212.6(a): Compliance Demonstration
- 4 40CFR 63.1505(f), Subpart RRR: Compliance Demonstration

EU=U-00002

- 1-7 40CFR 63.1505(i), Subpart RRR: Compliance Demonstration
- 1-8 40CFR 63.1506(c), Subpart RRR: Compliance Demonstration
- 1-9 40CFR 63.1506(d), Subpart RRR: Compliance Demonstration
- 1-10 40CFR 63.1506(m), Subpart RRR: Group 1 Furnace w/ Add-on APCD - Inlet Temperature (Pre-Test)
- 1-11 40CFR 63.1506(m), Subpart RRR: Compliance Demonstration
- 1-12 40CFR 63.1510(h), Subpart RRR: Compliance Demonstration
- 1-25 40CFR 63.1510(i), Subpart RRR: Compliance Demonstration
- 1-13 40CFR 63.1511(a), Subpart RRR: Site-specific test plan
- 1-14 40CFR 63.1511(b), Subpart RRR: Initial Performance Test
- 1-15 40CFR 63.1511(c), Subpart RRR: Test Methods
- 1-16 40CFR 63.1511(g), Subpart RRR: Establishment of Monitoring and

Operating Parameter Values

- 1-17 40CFR 63.1512(d)(1), Subpart RRR: Group 1 Furnaces w/control that are Area Sources Subject to the D/F limits only
- 1-18 40CFR 63.1512(n), Subpart RRR: Baghouse Inlet Temperature
- 1-19 40CFR 63.1512(p), Subpart RRR: Compliance Demonstration
- 1-20 40CFR 63.1512(r), Subpart RRR: Compliance Demonstration
- 1-21 40CFR 63.1512(s), Subpart RRR: Compliance Demonstration
- 1-22 40CFR 63.1515(a)(6), Subpart RRR: Notification of performance test date
- 1-23 40CFR 63.1515(b), Subpart RRR: Compliance Demonstration
- 1-24 40CFR 63.1516(b), Subpart RRR: Compliance Demonstration

EU=U-00002,EP=00004

New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071



- 1-26 6NYCRR 212.4(b): Compliance Demonstration
- 1-27 6NYCRR 212.4(b): Compliance Demonstration
- 1-28 6NYCRR 212.4(c): Compliance Demonstration
- 1-29 6NYCRR 212.6(a): Compliance Demonstration

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 5 ECL 19-0301: Contaminant List
- 6 6NYCRR 201-1.4: Unavoidable noncompliance and violations
- 7 6NYCRR 201-5: Emission Unit Definition
- 8 6NYCRR 211.2: Air pollution prohibited

Emission Unit Level

- 9 6NYCRR 201-5: Emission Point Definition By Emission Unit
- 10 6NYCRR 201-5: Process Definition By Emission Unit

Mod 0 Permit Effective Date: 05/07/2003

Permit Expiration Date: No expiration date.

Mod 1 Permit Effective Date: 07/19/2004

Permit Expiration Date: No expiration date.



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 - 6NYCRR Part 200.5

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

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

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

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

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

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

Item C: Maintenance of Equipment - 6NYCRR Part 200.7

Any person who owns or operates an air contamination

New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071



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

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

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

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

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

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

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

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

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

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

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

(4) The facility owner and/or operator notified the Department within two working days after the event



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

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 - 6NYCRR Part 201-1.7

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

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

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

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

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

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

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

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 Part 202-1.1

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

Item K: Visible Emissions Limited - 6 NYCRR Part 211.3

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

Item L: Open Fires - 6 NYCRR Part 215

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

Item M: 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



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

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 N: 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 1-1: Compliance Demonstration

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1500(e), Subpart RRR

Item 1-1.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 1-1.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility is subject to the provisions of this subpart and is therefore subject to the Title V requirements under 40 CFR parts 70 and 71, as applicable. Since the facility is defined as an area source the submittal of the title V permit applications is deferred and is required to be submitted by December 9, 2005.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071



DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Compliance Demonstration

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1506(b), Subpart RRR

Item 1-2.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 1-2.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must provide and maintain easily visible labels posted at each group 1 furnace, group 2 furnace, in-line fluxer and scrap dryer/delacquering kiln/decoating kiln that identifies the applicable emission limits and means of compliance, including:

(1) The type of affected source or emission unit (e.g., scrap dryer/delacquering kiln/decoating kiln, group 1 furnace, group 2 furnace, in-line fluxer).

(2) The applicable operational standard(s) and control method(s) (work practice or control device). This includes, but is not limited to, the type of charge to be used for a furnace (e.g., clean scrap only, all scrap, etc.), flux materials and addition practices, and the applicable operating parameter ranges and requirements as incorporated in the OM&M plan.

The owner or operator must inspect the labels for each group 1 furnace, group 2 furnace, in-line fluxer and scrap dryer/delacquering kiln/decoating kiln at least once per calendar month to confirm that posted labels are intact and legible.

Monitoring Frequency: MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

The initial report is due 1/30/2005.

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

Condition 1-3: Operating requirements - Corrective Action
Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1506(p), Subpart RRR

Item 1-3.1:

When a process parameter or add-on air pollution control device operating parameter deviates from the value or range established during the performance test and incorporated in the OM&M plan, the owner or operator must initiate corrective action. Corrective action must restore operation of the affected source or emission unit (including the process or control device) to its normal or usual mode of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. Corrective actions taken must include follow-up actions necessary to return the process or control device parameter level(s) to the value or range of values established during the performance test and steps to prevent the likely recurrence of the cause of a deviation.

Condition 1-4: Monitoring and Compliance Requirements - OM&M Plan
Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1510(b), Subpart RRR

Item 1-4.1:

The owner or operator must prepare and implement for each new or existing affected source and emission unit, a written operation, maintenance, and monitoring (OM&M) plan. The owner or operator must submit the plan to NYSDEC for review and approval as part of the application for a part 70 or part 71 permit. Any subsequent changes to the plan must be submitted to the NYSDEC for review and approval. Pending approval by the NYSDEC of an initial or amended plan, the owner or operator must comply with the provisions of the submitted plan. The plan must be accompanied by a written certification by the owner or operator that the OM&M Plan satisfies all requirements of this section and is otherwise consistent with the requirements of this subpart. The owner or operator must comply with all the provisions of the OM&M Plan as submitted to the NYSDEC, unless and until the plan is revised in accordance with the following procedures. If the NYSDEC determines at any time after receipt of the OM&M Plan that any revisions of the plan are necessary to satisfy the requirements of this section or this subpart, the owner or operator must promptly make all necessary revisions and resubmit the revised plan. If the owner or operator determines that any other revisions of the OM&M Plan are necessary, such revisions will not become effective until the owner or operator submits a description of the changes and a revised plan incorporating them to the NYSDEC. Each plan must contain the following information:

- (1) Process and control device parameters to be monitored to determine compliance, along with established operating levels or ranges, as applicable, for each process and control device.
- (2) A monitoring schedule for each affected source and emission unit.
- (3) Procedures for the proper operation and maintenance of each process unit and add-on control device used to meet the applicable emission limits or standards in 40 CFR Part 63.1505.

New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071



(4) Procedures for the proper operation and maintenance of monitoring devices or systems used to determine compliance, including:

(i) Calibration and certification of accuracy of each monitoring device, at least once every 6 months, according to the manufacturer's instructions; and

(ii) Procedures for the quality control and quality assurance of continuous emission or opacity monitoring systems as required by the general provisions in 40 CFR Part 63 Subpart A.

(5) Procedures for monitoring process and control device parameters, including procedures for annual inspections of afterburners, and if applicable, the procedure to be used for determining charge/feed (or throughput) weight if a measurement device is not used.

(6) Corrective actions to be taken when process or operating parameters or add-on control device parameters deviate from the value or range established in paragraph (b)(1) of 40 CFR §63.1510, including:

(i) Procedures to determine and record the cause of an deviation or excursion, and the time the deviation or excursion began and ended; and

(ii) Procedures for recording the corrective action taken, the time corrective action was initiated, and the time/date corrective action was completed.

(7) A maintenance schedule for each process and control device that is consistent with the manufacturer's instructions and recommendations for routine and long-term maintenance.

(8) Documentation of the work practice and pollution prevention measures used to achieve compliance with the applicable emission limits and a site-specific monitoring plan as required in 40 CFR §63.1510(o) for each group 1 furnace not equipped with an add-on air pollution control device.

Condition 1: Secondary Aluminum Notifications
Effective between the dates of 05/07/2003 and Permit Expiration Date

Ap40CFR 63.1515, Subpart RRR

Item 1.1:

(1) As required by 40 CFR §63.9(b)(1), the owner or operator must provide notification for an area source that subsequently increases its emissions such that the source is a major source subject to the standard.

(2) As required by §63.9(b)(5), an owner or operator who intends to construct a new affected source or reconstruct an affected source subject to this subpart, or reconstruct a source such that it becomes an affected source subject to this subpart, must provide notification of the intended construction or reconstruction. The notification must include all the information required for an application for approval of construction or reconstruction as required by §63.5(d). For major sources, the application for approval of construction or reconstruction may be used to fulfill these requirements.



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

(3) As required by §63.9(e) and (f), the owner or operator must provide notification of the anticipated date for conducting performance tests and visible emission observations. The owner or operator must notify the Administrator of the intent to conduct a performance test at least 60 days before the performance test is scheduled; notification of opacity or visible emission observations for a performance test must be provided at least 30 days before the observations are scheduled to take place.

(4) Each owner or operator must submit a notification of compliance status report within 60 days after the compliance dates specified in §63.1501. The notification must be signed by the responsible official who must certify its accuracy. A complete notification of compliance status report must include the information specified in paragraphs (b)(1) through (b)(10) of 40CFR §63.1515. The required information may be submitted in an operating permit application, in an amendment to an operating permit application, in a separate submittal, or in any combination. If an owner or operator submits the information specified in this section at different times or in different submittals, later submittals may refer to earlier submittals instead of duplicating and resubmitting the information previously submitted.

Condition 1-5: Secondary Aluminum MACT Reports
Effective between the dates of 07/19/2004 and Permit Expiration Date

Ap40CFR 63.1516, Subpart RRR

Item 1-5.1:

Startup, shutdown, and malfunction plan/reports: The owner or operator must develop and implement a written plan as described in 40 CFR §63.6(e)(3) that contains specific procedures to be followed for operating and maintaining the source during periods of startup, shutdown, and malfunction, and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the standard. The owner or operator shall also keep records of each event as required by §63.10(b) and record and report if an action taken during a startup, shutdown, or malfunction is not consistent with the procedures in the plan as described in §63.6(e)(3). In addition to the information required in §63.6(e)(3), the plan must include:

(1) Procedures to determine and record the cause of the malfunction and the time the malfunction began and ended; and

(2) Corrective actions to be taken in the event of a malfunction of a process or control device, including procedures for recording the actions taken to correct the malfunction or minimize emissions.

Item 1-5.2:

Excess emissions/summary report. As required by §63.10(e)(3), the owner or operator must submit semiannual reports within 60 days after the end of each 6-month period. Each report must contain the information specified in §63.10(c). When no deviations of parameters have occurred, the owner or operator must submit a report stating that no excess emissions occurred during the reporting period. A report must be submitted if any of the conditions listed in 40 CFR §63.1516(b)(1) occur during a 6-month reporting period.

The owner or operator must submit the results of any performance test conducted during the reporting period, including one complete report documenting test methods and procedures, process operation, and monitoring parameter ranges or values for each test method used for a particular type of emission point tested.



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

Item 1-5.3:

Annual compliance certifications: For the purpose of annual certifications of compliance required by 40 CFR part 70 or 71, the owner or operator must certify continuing compliance based upon, but not limited to, the following conditions:

- (1) Any period of excess emissions, as defined in paragraph (b)(1) of this section, that occurred during the year were reported as required by this subpart; and
- (2) All monitoring, recordkeeping, and reporting requirements were met during the year.

Condition 1-6: Secondary Aluminum MACT Recordkeeping
Effective between the dates of 07/19/2004 and Permit Expiration Date

Ap40CFR 63.1517, Subpart RRR

Item 1-6.1:

(a) As required by §63.10(b), the owner or operator shall maintain files of all information (including all reports and notifications) required by the general provisions (40 CFR 63 Subpart A) and 40 CFR 63 Subpart RRR.

(1) The owner or operator must retain each record for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The most recent 2 years of records must be retained at the facility. The remaining 3 years of records may be retained off site.

(2) The owner or operator may retain records on microfilm, computer disks, magnetic tape, or microfiche; and

(3) The owner or operator may report required information on paper or on a labeled computer disk using commonly available and EPA-compatible computer software.

(b) In addition to the general records required by §63.10(b), the owner or operator of a new or existing affected source (including an emission unit in a secondary aluminum processing unit) must maintain additional records listed in 40 CFR §63.1517(b)(1) through (b)(17) as applicable.

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

Condition 2: Compliance Demonstration
Effective between the dates of 05/07/2003 and Permit Expiration Date

Applicable Federal Requirement: 6NYCRR 212.4(a)

Item 2.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: A-00001

Item 2.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

Permissible emission rates of particulates are determined from table 2 of this part for the environmental rating issued by the commissioner. Compliance at the sweat furnaces is by maintaining the afterburner temperature at 1600 F as described elsewhere in this permit and by operating and maintaining the furnaces in accordance with the O&M manual. Scrap management and charge rates will be as described in the O & M manual. Records will be kept of charge rates, material description and time in the operators logbook.

The baghouse, controlling emissions from the charge area and slag pans, will be equipped with a photohelic gauge to control bag clean cycle. The furnace operator will monitor the photohelic gauge hourly, and if it exceeds the manufacturers operating range, the operator will initiate the manual cleaning of bags.

All devices used to control emissions and monitor compliance will be calibrated and or certified at least once every six months, or according to manufacturers recommendations, whichever is a shorter period of time. All calibration records will be filed and maintained on site.

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 7/30/2003.

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

Compliance Demonstration

Effective between the dates of 05/07/2003 and Permit Expiration Date

Applicable Federal Requirement: 6NYCRR 212.6(a)

Item 3.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: A-00001

Item 3.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Opacity from the two sweat furnaces and the baghouse



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

controlling emissions from the charge door and slag pans must not exceed 20% during any 6 consecutive minutes. Opacity will be monitored by plant personnel as described in section 3.0 of the O&M manual. During operation the operator will make ongoing visual inspections of the stack and door seals, and will adjust the charge rate as needed to stay within operating parameters. Records of any deviations will be kept in the furnace operators logbook. Any opacity noted should be investigated as to the cause and a certified Method 9 observation performed within 48 hours if the opacity continues and report submitted to this office. This office must be notified of any violations within 24 hours.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2003.

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

Condition 4: Compliance Demonstration
Effective between the dates of 05/07/2003 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1505(f), Subpart RRR

Item 4.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: A-00001

Item 4.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The two sweat furnaces are equipped with afterburners rated at 3 mmbtu/hr with a chamber measuring 6 foot in diameter and 12 foot in length. Using the estimated flow rate of 2700 acfm the calculated residence time for each unit is 0.13 seconds. The rule requires the use of an afterburner to control particulate and Volatile Organic Compound emissions with a minimum design residence time of

New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071



0.8 seconds. No performance test is required as long as the residence time and 1600 F temperature requirement are met. The afterburners and sweat furnaces must be operated in accordance with the Operation, Maintenance and monitoring manual submitted with the application dated March 2003 and any updates.

The average afterburner temperature for each 3-hour period must be at or above 1600 degrees F. A continuous digital recorder must be used capable of calculating 3 hour averages or a recorder with temperatures continuously greater than 1600 degrees F.

The following records must be maintained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

1. Records of every 15 minute block afterburner operating temperature in any 3- hour block period which falls below the compliant operating parameter value with a brief explanation of the cause of the excursion and the corrective action taken.

2. Records of annual afterburner inspections.

The temperature monitoring equipment must be calibrated and maintained in accordance with manufacturers specifications.

Excess emissions/summary reports are due within 60 days after the end of every six month period. Each report must contain the information specified in section 63.10(c).

When no deviations of parameters have occurred, the owner or operator must submit a report stating that no excess emissions occurred during the reporting period. An action taken during a start up, shutdown or malfunction which is not consistent with the operations manual as well as deviations of the afterburner temperature requirement are to be included in the excess emission report.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 1600 degrees Fahrenheit

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2003.

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

Condition 1-7: Compliance Demonstration

Effective between the dates of 07/19/2004 and Permit Expiration Date



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

Applicable Federal Requirement: 40CFR 63.1505(i), Subpart RRR

Item 1-7.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant(s):

CAS No: ONY075-00-0

PARTICULATES

Item 1-7.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The group 1 furnace dioxin/furan limit based on feed/charge, at a secondary aluminum production facility that is a major or area source is limited to 0.00021 grains of D/F TEQ per ton. This limit does not apply if the furnace processes only clean charge.

Compliance with this limit satisfies the requirements of 40 cfr 63.1505(K).

A stack test demonstrating compliance must be performed within 90 days of start up. A Site Specific stack test monitoring plan must be submitted for approval prior to testing pursuant to the procedures set forth in Section 63.7(c). The initial performance test demonstrating compliance and confirming surrogate monitoring parameters must be performed in accordance with the requirements and procedures of 40 cfr 63.7(c). Report of results due within 90 days after completing test.

Upper Permit Limit: 0.00021 grams per square centimeter

Reference Test Method: epa method 23

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-8: Compliance Demonstration

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1506(c), Subpart RRR

Item 1-8.1:

The Compliance Demonstration activity will be performed for:

New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071



Emission Unit: U-00002

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 1-8.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each affected source or emission unit equipped with an add-on air pollution control device, the owner or operator must:

(1) Design and install a system for the capture and collection of emissions to meet the engineering standards for minimum exhaust rates as published by the American Conference of Governmental Industrial Hygienists in chapters 3 and 5 of "Industrial Ventilation: A Handbook of Recommended Practice" (incorporated by reference in 40CFR Subpart RRR §63.1502);

(2) Vent captured emissions through a closed system, except that dilution air may be added to emission streams for the purpose of controlling temperature at the inlet to a fabric filter; and

(3) Operate each capture/collection system according to the procedures and requirements in the OM&M plan.

The owner or operator must:

(4) Install, operate, and maintain a capture/collection system for each affected source and emission unit equipped with an add-on air pollution control device; and

(5) Inspect each capture/collection and closed vent system at least once each calendar year to ensure that each system is operating in accordance with the above operating requirements and record the results of each inspection.

Monitoring Frequency: ANNUALLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2005.

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

Condition 1-9: Compliance Demonstration

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1506(d), Subpart RRR

New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071



Item 1-9.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 1-9.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected source or emission unit subject to an emission limit in kg/Mg (lb/ton) or $\mu\text{g/Mg}$ (gr/ton) of feed/charge must:

- (1) Except as provided in paragraph (3) of this condition, install, calibrate, operate and maintain a device that measures and records or otherwise determine the weight of feed/charge (or throughput) for each operating cycle or time period used in the performance test; and
- (2) Operate each weight measurement system or other weight determination procedure in accordance with the OM&M plan.
- (3) The owner or operator may chose to measure and record aluminum production weight from an affected source or emission unit rather than feed/charge weight to an affected source or emission unit, provided that:
 - (i) The aluminum production weight, rather than feed/charge weight is measured and recorded for all emission units within a SAPU; and
 - (ii) All calculations to demonstrate compliance with the emission limits for SAPUs are based on aluminum production weight rather than feed/charge weight.
- (4) Feed/charge or aluminum production within SAPUs must be measured and recorded for each group 1 furnace and/or in-line fluxer.
- (5) The accuracy of the weight measurement device or procedure must be ± 1 percent of the weight being measured. The owner or operator may apply to the permitting agency for approval to use a device of alternative accuracy if



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

the required accuracy cannot be achieved as a result of equipment layout or charging practices. A device of alternative accuracy will not be approved unless the owner or operator provides assurance through data and information that the affected source will meet the relevant emission standard.

(6) The owner or operator must verify the calibration of the weight measurement device in accordance with the schedule specified by the manufacturer, or if no calibration schedule is specified, at least once every 6 months.

(7) As an alternative to a measurement device, the owner or operator may use a procedure acceptable to the applicable permitting authority to determine the total weight of feed/charge or aluminum production to the affected source or emission unit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 24-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2005.

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

Condition 1-10: Group 1 Furnace w/ Add-on APCD - Inlet Temperature (Pre-Test)

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1506(m), Subpart RRR

Item 1-10.1:

The Emission Unit: U-00002

Item 1-10.2:

(1) The owner or operator of a group 1 furnace with emissions controlled by a lime-injected fabric filter must maintain the 3-hour block average inlet temperature for each fabric filter at or below the average temperature established during the performance test, plus 14 °C (plus 25 °F).

(2) The owner or operator must install, calibrate, maintain, and operate a device to continuously monitor and record the temperature of the fabric filter inlet gases consistent with the requirements for continuous monitoring systems in 40CFR Part 63, Subpart A.

(3) The temperature monitoring device must meet each of these performance and equipment specifications:



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

(i) The monitoring system must record the temperature in 15-minute block averages and calculate and record the average temperature for each 3-hour block period.

(ii) The recorder response range must include zero and 1.5 times the average temperature established according to the requirements in §63.1512(n).

(iii) The reference method must be a National Institute of Standards and Technology calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the USEPA Administrator.

Condition 1-11: Compliance Demonstration

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1506(m), Subpart RRR

Item 1-11.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 1-11.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a group 1 furnace with emissions controlled by a lime-injected fabric filter must:

(1) If a bag leak detection system is used to meet the monitoring requirements in §63.1510, the owner or operator must install and operate a bag leak detection system for each exhaust stack of a fabric filter.

(2) Each triboelectric bag leak detection system must be installed, calibrated, operated, and maintained according to the "Fabric Filter Bag Leak Detection Guidance," (September 1997). This document is available from the U.S. Environmental Protection Agency; Office of Air Quality Planning and Standards; Emissions, Monitoring and Analysis Division; Emission Measurement Center (MD-19), Research Triangle Park, NC 27711. This document also is available on the Technology Transfer Network (TTN) under Emission Measurement Technical Information (EMTIC), Continuous Emission Monitoring. Other bag leak detection systems must be installed, operated, calibrated, and maintained in a manner consistent with the manufacturer's written specifications and recommendations.

(3) The bag leak detection system must be certified by

New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071



the manufacturer to be capable of detecting PM emissions at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.

(4) The bag leak detection system sensor must provide output of relative or absolute PM loadings.

(5) The bag leak detection system must be equipped with a device to continuously record the output signal from the sensor.

(6) The bag leak detection system must be equipped with an alarm system that will sound automatically when an increase in relative PM emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel.

(7) For positive pressure fabric filter systems, a bag leak detection system must be installed in each baghouse compartment or cell. For negative pressure or induced air fabric filters, the bag leak detector must be installed downstream of the fabric filter.

(8) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

(9) The baseline output must be established by adjusting the range and the averaging period of the device and establishing the alarm set points and the alarm delay time.

(10) Following initial adjustment of the system, the owner or operator must not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time except as detailed in the OM&M plan. In no case may the sensitivity be increased by more than 100 percent or decreased more than 50 percent over a 365-day period unless such adjustment follows a complete fabric filter inspection which demonstrates that the fabric filter is in good operating condition.

The owner or operator must also:

(11) Initiate corrective action within 1 hour of a bag leak detection system alarm.

(12) Complete the corrective action procedures in accordance with the OM&M plan.

(13) Operate each fabric filter system such that the bag leak detection system alarm does not sound more than 5 percent of the operating time during a 6-month block reporting period. In calculating this operating time fraction, if inspection of the fabric filter demonstrates that no corrective action is required, no alarm time is counted. If corrective action is required, each alarm

New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071



shall be counted as a minimum of 1 hour. If the owner or operator takes longer than 1 hour to initiate corrective action, the alarm time shall be counted as the actual amount of time taken by the owner or operator to initiate corrective action.

Monitoring Frequency: CONTINUOUS

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 1/30/2005.

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

Compliance Demonstration

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1510(h), Subpart RRR

Item 1-12.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant(s):

CAS No: 0NY100-00-0

HAP

Item 1-12.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each scrap dryer/delacquering kiln/decoating kiln or for each group 1 furnace using a lime-injected fabric filter to comply with the requirements of 40CFR63, Subpart RRR, the owner/operator shall install, calibrate, maintain, and operate a device to continuously monitor and record the temperature of the fabric filter inlet gases consistent with the requirements for continuous monitoring systems in Subpart A of Part 63.

The temperature monitoring device must record the temperature in 15-minute block averages and calculate and record the average temperature for each 3-hour block period.

The recorder response range must include zero and 1.5



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

times the average temperature established according to the requirements in §63.1512(n).

The reference method must be a National Institute of Standards and Technology calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by EPA.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2005.

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

Condition 1-25: Compliance Demonstration

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1510(i), Subpart RRR

Item 1-25.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 1-25.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The owner/operator of a continuous lime injection system must verify that the lime is always free-flowing by performing one of the following options:

1) Inspecting each feed hopper or silo at least once each 8-hour period and recording the results of each inspection. If lime is found not to be free-flowing during any of the 8-hour periods, the owner/operator must increase the frequency of inspections to at least once every 4-hour period for the next 3 days. The owner/operator may return to inspections at least once every 8-hour period if corrective action results in no further blockages of lime during the 3-day period.

2) Subject to the approval of the NYSDEC, the



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

owner/operator may install, operate, and maintain a load cell, carrier gas/lime flow indicator, carrier gas pressure drop measurement system or other system to confirm that lime is free-flowing. If lime is found not to be free-flowing, the owner/operator must promptly initiate and complete corrective action.

3) Subject to the approval of the NYSDEC, the owner/operator may install, operate, and maintain a device to monitor the concentration of HCl at the outlet of the fabric filter. If an increase in the concentration of HCl indicates that the lime is not free-flowing, the owner/operator must promptly initiate and complete corrective action.

The owner/operator of a continuous lime injection system must record the lime feeder setting once every day of operation.

If the owner/operator intermittently adds lime to a lime coated fabric filter, approval must be granted from NYSDEC for a lime addition monitoring procedure. Permission will not be granted unless data and information are submitted establishing that the procedure is adequate to ensure that relevant emission standards will be met on a continuous basis.

Parameter Monitored: MASS FLOW RATE

Lower Permit Limit: 0 kilograms per hour

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 8-HOUR BLOCK - ARITHMETIC MEAN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2005.

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

Condition 1-13: Site-specific test plan

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1511(a), Subpart RRR

Item 1-13.1:

The Emission Unit: U-00002

Item 1-13.2:

Prior to conducting a performance test required by 40 CFR Part 63 Subpart RRR, the owner or operator



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

must prepare and submit a site-specific test plan meeting the requirements in 40 CFR Part 63.7(c).

Condition 1-14: Initial Performance Test

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1511(b), Subpart RRR

Item 1-14.1:

Condition applies to

Emission Unit: U-00002

Item 1-14.2:

Following approval of the site-specific test plan, the owner or operator must demonstrate initial compliance with each applicable emission, equipment, work practice, or operational standard for each affected source and emission unit, and report the results in the notification of compliance status report as described in 40 CFR Part 63.1515(b). The owner or operator must conduct each performance test according to the requirements of the general provisions in subpart A of this part and this subpart. Owners or operators of affected sources located at facilities which are area sources are subject only to those performance testing requirements pertaining to D/F. Owners or operators of sweat furnaces meeting the specifications of 40 CFR Part 63.1505(f)(1) are not required to conduct a performance test.

(1) The owner or operator must conduct each test while the affected source or emission unit is operating at the highest production level with charge materials representative of the range of materials processed by the unit and, if applicable, at the highest reactive fluxing rate.

(2) Each performance test for a continuous process must consist of 3 separate runs; pollutant sampling for each run must be conducted for the time period specified in the applicable method or, in the absence of a specific time period in the test method, for a minimum of 3 hours.

(3) Each performance test for a batch process must consist of three separate runs; pollutant sampling for each run must be conducted over the entire process operating cycle.

(4) Where multiple affected sources or emission units are exhausted through a common stack, pollutant sampling for each run must be conducted over a period of time during which all affected sources or emission units complete at least 1 entire process operating cycle or for 24 hours, whichever is shorter.

(5) Initial compliance with an applicable emission limit or standard is demonstrated if the average of three runs conducted during the performance test is less than or equal to the applicable emission limit or standard.

Condition 1-15: Test Methods

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1511(c), Subpart RRR

Item 1-15.1:

The Emission Unit: U-00002



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

Item 1-15.2:

The owner or operator must use the following methods in appendix A to 40 CFR part 60 to determine compliance with the applicable emission limits or standards:

- (1) Method 1 for sample and velocity traverses.
- (2) Method 2 for velocity and volumetric flow rate.
- (3) Method 3 for gas analysis.
- (4) Method 4 for moisture content of the stack gas.
- (5) Method 5 for the concentration of PM.
- (6) Method 9 for visible emission observations.
- (7) Method 23 for the concentration of D/F.
- (8) Method 25A for the concentration of THC, as propane.

(9) Method 26A for the concentration of HCl. Where a lime-injected fabric filter is used as the control device to comply with the 90 percent reduction standard, the owner or operator must measure the fabric filter inlet concentration of HCl at a point before lime is introduced to the system.

**Condition 1-16: Establishment of Monitoring and Operating Parameter Values
Effective between the dates of 07/19/2004 and Permit Expiration Date**

Applicable Federal Requirement: 40CFR 63.1511(g), Subpart RRR

Item 1-16.1:

This Condition applies to Emission Unit: U-00002

Item 1-16.2:

Establishment of monitoring and operating parameter values. The owner or operator of new or existing affected sources and emission units must establish a minimum or maximum operating parameter value, or an operating parameter range for each parameter to be monitored as required by 40 CFR Part 63.1510 that ensures compliance with the applicable emission limit or standard. To establish the minimum or maximum value or range, the owner or operator must use the appropriate procedures in this section and submit the information required by 40 CFR Part 63.1515(b)(4) in the notification of compliance status report. The owner or operator may use existing data in addition to the results of performance tests to establish operating parameter values for compliance monitoring provided each of the following conditions are met to the satisfaction of the applicable permitting authority:

- (1) The complete emission test report(s) used as the basis of the parameter(s) is submitted.
- (2) The same test methods and procedures as required by this subpart were used in the test.



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

(3) The owner or operator certifies that no design or work practice changes have been made to the source, process, or emission control equipment since the time of the report.

(4) All process and control equipment operating parameters required to be monitored were monitored as required in this subpart and documented in the test report.

Condition 1-17: Group 1 Furnaces w/control that are Area Sources Subject to the D/F limits only
Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1512(d)(1), Subpart RRR

Item 1-17.1:

Condition applies to

Emission Unit: U-00002

Item 1-17.2:

The owner or operator of a group 1 furnace that processes scrap other than clean charge materials with emissions controlled by a lime-injected fabric filter must conduct performance tests to measure emissions of D/F at the outlet of the control device.

Condition 1-18: Baghouse Inlet Temperature
Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1512(n), Subpart RRR

Item 1-18.1:

Condition applies to

Emission Unit: U-00002

Item 1-18.2:

The owner or operator of a scrap dryer/delacquering kiln/decoating kiln or a group 1 furnace using a lime-injected fabric filter must use these procedures to establish an operating parameter value or range for the inlet gas temperature.

(1) Continuously measure and record the temperature at the inlet to the lime-injected fabric filter every 15 minutes during the HCl and D/F performance tests;

(2) Determine and record the 15-minute block average temperatures for the 3 test runs; and

(3) Determine and record the 3-hour block average of the recorded temperature measurements for the 3 test runs.

Compliance Demonstration

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1512(p), Subpart RRR

Item 1-19.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00002



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

Regulated Contaminant(s):
CAS No: 0NY100-00-0 HAP

Item 1-19.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator of an affected source or emission unit using a lime-injected fabric filter system must use the following procedures during the HCl or the D/F test(s) to establish an operating parameter value for the feeder setting for each operating cycle or time period used in the performance test:

- 1) For continuous lime injection systems, ensure that lime in the feed hopper or silo is free-flowing at all times, and
- 2) Record the feeder setting for the three test runs. If the feed rate setting varies during the runs, determine and record the average feed rate for the 3 minutes.

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 1/30/2005.

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

Condition 1-20: Compliance Demonstration

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1512(r), Subpart RRR

Item 1-20.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant(s):
CAS No: 0NY100-00-0 HAP

Item 1-20.2:

Compliance Demonstration shall include the following monitoring:



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator of each scrap dryer/delacquering kiln/decoating kiln, group 1 furnace, group 2 furnace, and in-line fluxer must submit the information described in §63.1515(b)(3) as part of the notification of compliance status report to document conformance with the labeling standards listed in §63.1506(b).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-21: Compliance Demonstration

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1512(s), Subpart RRR

Item 1-21.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 1-21.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator of a new or existing affected source or emission unit with an add-on control device must submit the information required in §63.1515(b)(2) as part of the notification of compliance status report to document conformance with the capture/control device requirements listed in §63.1506(c).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-22: Notification of performance test date

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1515(a)(6), Subpart RRR



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

Item 1-22.1:

This Condition applies to Emission Unit: U-00002

Item 1-22.2:

As required by §63.9(e) and (f), the owner/operator must provide notification of the anticipated date for conducting performance tests and visible emission observations. The owner/operator must notify EPA or NYSDEC of the intent to conduct a performance test at least 60 days before the performance test is scheduled; notification of opacity or visible emission observations for a performance test must be provided at least 30 days before the observations are scheduled to take place.

Compliance Demonstration

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1515(b), Subpart RRR

Item 1-23.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant(s):

CAS No: 0NY100-00-0

HAP

Item 1-23.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For existing sources, the notification of compliance status report is due 60 days after the compliance date established in §63.1501(a). For new affected sources, the report is due within 90 days after conducting the initial performance test required by §63.1511(b), or within 90 days after the compliance date established by §63.1501(b) if no initial performance test is required. The notification must be signed by the responsible official who must certify its accuracy. A complete notification of compliance status report must include the following information in an operating permit application, in an amendment to a permit application, in a separate submittal, or any combination. The notification of compliance status report must include:

1) All information required in §63.9(h) for notification of compliance status reports. The owner/operator must provide a complete performance test report for each affected source and emission unit for which a performance

New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071



test is required. A complete performance test report includes all data, associated measurements, and calculations (including visible emission and opacity tests).

2) The approved site-specific test plan and performance evaluation test results for each continuous monitoring system (including a continuous emission or opacity monitoring system)

3) Unit labeling as described in §63.1506(b), including process type or furnace classification and operating requirements.

4) The compliant operating parameter value or range established for each affected source or emission unit with supporting documentation and a description of the procedure used to establish the value (e.g., the lime injection rate, fabric filter inlet temperature, etc.), including the operating cycle or time period used in the performance test.

5) Design information and analysis, with supporting documentation, demonstrating conformance with the requirements for capture/collection systems in §63.1506(c).

6) If applicable, analysis and supporting documentation demonstrating conformance with EPA guidance and specifications for bag leak detection systems in 63.1510(f).

7) Manufacturer's specification or analysis documenting the design residence time of no less than 1 second for each afterburner used to control emissions from a scrap dryer/delacquering kiln/decoating kiln subject to alternative emission standards in §63.1505(e).

8) Manufacturer's specification or analysis documenting the design residence time of no less than 2 seconds and design operating temperature of no less than 1600 degrees F for each afterburner used to control emissions from a sweat furnace that is not subject to a performance test.

9) Approved OM&M plan (Including site-specific monitoring plan for each group 1 furnace with no add-on air pollution

New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071



control device)

10) Startup, shutdown, and malfunction plan, with revisions.

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-24: Compliance Demonstration

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.1516(b), Subpart RRR

Item 1-24.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 1-24.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

As required by §63.10(e)(3), semiannual reports must be submitted within 60 days after the end of each 6-month period. Each report must contain the information specified in §63.10(c). When no deviations of parameters occurred during the reporting period, a report stating that no excess emissions occurred shall be submitted.

- 1) A report must be submitted if any of these conditions occur during a 6-month reporting period:
 - The corrective action specified in the OM&M plan for a bag leak detection system alarm was not initiated within 1 hour
 - The corrective action specified in the OM&M plan for a continuous opacity monitoring deviation was not initiated within 1 hour
 - The corrective action specified in the OM&M plan for visible emissions from an aluminum scrap shredder was not initiated within 1 hour
 - An excursion of a compliant process or operating parameter value or range (e.g., lime injection rate, fabric filter inlet temperature, etc.)



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

- An action taken during a start up, shutdown, or malfunction was not consistent with the procedures in the plan as described in §63.6(e)(3)
- An affected source (including an emission unit in a secondary aluminum processing unit) was not operated according to the requirements of Subpart RRR
- A deviation from the 3-day, 24-hour rolling average emission limit for a secondary aluminum processing unit

2) Each report must include any of the certifications listed in §63.1516(b)(2)(i)-(vi) which may be applicable.

3) The owner or operator must submit the results of any performance test conducted during the reporting period, including one complete report documenting test methods and procedures, process operation, and monitoring parameter ranges or values for each test method used for a particular type of emission point tested.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2005.
Subsequent reports are due every 6 calendar month(s).

Condition 1-26: Compliance Demonstration

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 6NYCRR 212.4(b)

Item 1-26.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00002

Emission Point: 00004

Regulated Contaminant(s):

CAS No: 0NY075-00-5

PM-10

Item 1-26.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The degree of air cleaning necessary to meet the requirements of 6 NYCRR part 212.4(b) for gases and liquid particulate with Environmental ratings of A,B,C, or D and



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

Solid Particulates emissions with a Environmental Rating of A or D are contained in table 2 of this subpart. A stack test to demonstrate compliance with this table is required to determine inlet and outlet concentrations of PM-10 within 90 days of start-up. A stack test protocol detailing methods, equipment and operation is required 30 days prior to stack testing and must be approved by this office. An acceptable final report of results is due within 90 days of test completion. EPA acceptable methods for determining condensable particulate must be used. We will assume an environmental rating of B for all collected gas, liquid and solid particulate and base ERP on application estimates of 21.5 lbs/hr. The required control efficiency based on 21.5 lb/hr ERP is 91%.

Upper Permit Limit: 91 percent

Reference Test Method: EPA method 201A and 202

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Compliance Demonstration

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 6NYCRR 212.4(b)

Item 1-27.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00002 Emission Point: 00004

Regulated Contaminant(s):

CAS No: 007647-01-0 HYDROGEN CHLORIDE

Item 1-27.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

A stack test must be performed to determine compliance with the efficiency requirements of 6 NYCRR part 212.4(b), table 2, for Hydrogen Chloride with an Environmental rating of B. Based on an approximate Emission Rate Potential (ERP) of 15.34 lbs/hour the required control Efficiency is 90%. A stack test must be performed within



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

90 days after start up. An acceptable stack test protocol must be submitted for approval 30 days prior to testing. A report of results must be submitted within 90 days after testing is completed. Lime injection rates will be determined during the test and used as surrogate monitoring limits for the control of Hydrogen Chloride.

The degree of air cleaning required for ERP less than 10 pounds/hour shall be specified by the commissioner. The continuing use of Lime injection injection as required by the MACT will be sufficient in this case.

Upper Permit Limit: 90 percent

Reference Test Method: EPA method 26

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-28: Compliance Demonstration

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 6NYCRR 212.4(c)

Item 1-28.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00002

Emission Point: 00004

Regulated Contaminant(s):

CAS No: 0NY075-00-0

PARTICULATES

Item 1-28.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Total solid particulate for a "B" rated contaminant is limited to 0.05 grains per dry standard cubic foot of exhaust gas. An initial performance test to demonstrate compliance with this limit is required within 90 days of start up. A stack test protocol is required 30 days prior to the proposed test. A final report is due within 90 days after completion of the test. Additional testing may be required at the discretion of the department.



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

Upper Permit Limit: .05 grains per dscf
Reference Test Method: EPA Method 5
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-29: Compliance Demonstration

Effective between the dates of 07/19/2004 and Permit Expiration Date

Applicable Federal Requirement: 6NYCRR 212.6(a)

Item 1-29.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00002

Emission Point: 00004

Item 1-29.2:

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 immediately investigate any instance where there is cause to believe that visible emissions above those that are normal and in compliance are occurring or have occurred from a process source.

If visible emissions above those that are normal and in compliance with section 212.6(a) are detected (this may be zero percent opacity for many or all emission sources), the permittee shall determine the cause, make the necessary correction, and verify that the excess visible emissions problem has been corrected.

New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071



If visible emissions above those that are normal and in compliance continue to be present after corrections are made, the permittee will immediately notify The Department and conduct a Method 9 assessment within 24 hours to determine the degree of opacity.

Records of these observations, investigations and corrective actions will be kept on-site in a format acceptable to the Department and the semiannual progress report and annual compliance certifications required of all permittees subject to Title V must include a summary of these instances.

Upper Permit Limit: 0 percent

Reference Test Method: method 22

Monitoring Frequency: DAILY

Averaging Method: ONE CONTINUOUS 6-MINUTE PERIOD PER HOUR

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 0 days after the reporting period.

The initial report is due 12/31/2004.

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



STATE ONLY ENFORCEABLE CONDITIONS

****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Public Access to Recordkeeping for Facilities With State Facility Permits - 6NYCRR Part 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

New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071



law.

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.

Condition 5: Contaminant List
Effective between the dates of 05/07/2003 and Permit Expiration Date

Applicable State Requirement: ECL 19-0301

Item 5.1:

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

CAS No: 0NY100-00-0

Name: HAP

CAS No: 007647-01-0

HYDROGEN CHLORIDE

CAS No: 0NY075-00-0

Name: PARTICULATES

CAS No: 0NY075-00-5

Name: PM-10

Condition 6: Unavoidable noncompliance and violations
Effective between the dates of 05/07/2003 and Permit Expiration Date

Applicable State Requirement: 6NYCRR 201-1.4

Item 6.1:

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



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

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.

Emission Unit Definition

Effective between the dates of 05/07/2003 and Permit Expiration Date

Applicable State Requirement: 6NYCRR 201-5

Item 7.1(From Mod 1):

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

Emission Unit: A-00001

Emission Unit Description:

This emission unit consists of two aluminum sweat furnaces used to recover aluminum scrap. Both furnaces are equipped with integral afterburners to control particulates, volatile organic compounds and Hazardous Air Pollutants. A capture and collection system equipped with a bag house controls fugitive emissions from charge area and slag pans.

New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071



Building(s): 01

Item 7.2(From Mod 1):

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

Emission Unit: U-00002

Emission Unit Description:

This emission unit consists of one group 1 furnace(Rotary smelting furnace) used to recover aluminum scrap. The furnace is equipped with a 50,000 cfm baghouse that utilizes continuous lime injection to control particulate and acid gas emissions.

Building(s): 01

Air pollution prohibited

Effective between the dates of 05/07/2003 and Permit Expiration Date

Applicable State Requirement: 6NYCRR 211.2

Item 8.1:

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.

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

Condition 9: Emission Point Definition By Emission Unit

Effective between the dates of 05/07/2003 and Permit Expiration Date

Applicable State Requirement: 6NYCRR 201-5

Item 9.1(From Mod 1):

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

Emission Unit: U-00002

Emission Point: 00004

Height (ft.): 40

Diameter (in.): 48

Building: 01

Item 9.2(From Mod 0):



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

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

Emission Unit: A-00001

Emission Point: 00001

Height (ft.): 40 Diameter (in.): 36
NYTMN (km.): 4749. NYTME (km.): 184.8 Building: 01

Emission Point: 00002

Height (ft.): 40 Diameter (in.): 36
NYTMN (km.): 4749. NYTME (km.): 184.8 Building: 01

Emission Point: 00003

Height (ft.): 40 Diameter (in.): 36
NYTMN (km.): 4749. NYTME (km.): 184.8 Building: 01

**Condition 10: Process Definition By Emission Unit
Effective between the dates of 05/07/2003 and Permit Expiration Date**

Applicable State Requirement: 6NYCRR 201-5

1.1(From Mod 1):

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

Emission Unit: A-00001

Process: 101

Source Classification Code: 3-04-001-01

Process Description:

This process involves placing aluminum containing scrap into one of two sweat furnaces. The charges may have residual oils, paints, etc. Aluminum is sweated out of scrap and flows into molten aluminum tanks. Iron and other higher melting point metals are raked out of the unit. Emissions result from natural gas combustion and products from the scrap metal. An afterburner is used to control emissions. A hooded capture and collection system is in place to control fugitive emissions using fabric filter technology in accordance with the ACGIH manual, "Industrial Ventilation". A manual of recommended practice.

Emission Source/Control: 0000A - Control
Control Type: DIRECT FLAME AFTERBURNER

Emission Source/Control: 0000B - Control
Control Type: DIRECT FLAME AFTERBURNER

Emission Source/Control: 0000C - Control



New York State Department of Environmental Conservation

Permit ID: 9-1409-00071/00001

Facility DEC ID: 9140900071

Control Type: FABRIC FILTER

Emission Source/Control: 000A1 - Process

Design Capacity: 2,700 pounds per hour

Emission Source/Control: 000B1 - Process

Design Capacity: 2,700 pounds per hour

Emission Source/Control: 000C1 - Process

Item 10.2(From Mod 1):

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

Emission Unit: U-00002

Process: 201

Source Classification Code: 3-04-001-03

Process Description:

This process involves placing aluminum containing scrap into the rotary smelting furnace. The charges may have residual oils, paints, etc. Non-reactive fluxing is performed at a rate of 5-7% of charge rate. This causes impurities to rise to the top of molten aluminum where it is removed. Emissions result from natural gas combustion and products from the scrap metal melting. A baghouse equipped with continuous dry lime injection is used to control emissions of particulates and acid gases.

Emission Source/Control: 0LI01 - Control

Control Type: DRY LIME INJECTION

Emission Source/Control: BAG02 - Control

Control Type: FABRIC FILTER

Emission Source/Control: CYC03 - Control

Control Type: CENTRIFUGAL

Emission Source/Control: ORF01 - Process

Design Capacity: 10 million Btu per hour