



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 6-4058-00003/00379
Effective Date: 03/20/2012 Expiration Date: No expiration date

Permit Issued To:ALCOA INC
201 ISABELLA ST
PITTSBURGH, PA 15212-5858

Contact: ROBERT J LENNEY
ALCOA INC
PO BOX 150
MASSENA, NY 13662-0150
(315) 764-4161

Facility: ALCOA MASSENA OPERATIONS (WEST PLANT)
PARK AVE E
MASSENA, NY 13662

Description:

The new requirements pursuant to 6 NYCRR Part 249 are being written into the permit.

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

Permit Administrator: LAWRENCE R AMBEAU
NYSDEC - STATE OFFICE BLDG
317 WASHINGTON ST
WATERTOWN, NY 13601

Authorized Signature: _____ Date: ____ / ____ / ____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

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

Facility Level

- Submission of application for permit modification or renewal-REGION 6 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, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

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

Item 3.2:

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

Item 3.3:

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



Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

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

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

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

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

Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

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

NYSDEC Regional Permit Administrator
Region 6 Headquarters
Division of Environmental Permits
State Office Building, 317 Washington Street
Watertown, NY 13601-3787
(315) 785-2245

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00379

Facility DEC ID: 6405800003



Permit Under the Environmental Conservation Law (ECL)

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

IDENTIFICATION INFORMATION

Permit Issued To:ALCOA INC
201 ISABELLA ST
PITTSBURGH, PA 15212-5858

Facility: ALCOA MASSENA OPERATIONS (WEST PLANT)
PARK AVE E
MASSENA, NY 13662

Authorized Activity By Standard Industrial Classification Code:
3334 - PRIMARY ALUMINUM
3354 - ALUMINUM EXTRUDED PRODUCTS
3355 - ALUMINUM ROLLING & DRAWING NEC

Permit Effective Date: 03/20/2012
date.

Permit Expiration Date: No expiration
date.



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 211.1: Air pollution prohibited
- 2 6 NYCRR 249.3 (a): Compliance Demonstration

Emission Unit Level

EU=B-00001

- 3 6 NYCRR 249.3 (a): Compliance Demonstration
- 4 6 NYCRR 249.3 (a): Compliance Demonstration

EU=B-00001,Proc=OIL

- 5 6 NYCRR 249.3 (a): Compliance Demonstration

EU=S-00001,Proc=POT

- 6 6 NYCRR 249.3 (a): Compliance Demonstration
- 7 6 NYCRR 249.3 (a): Compliance Demonstration

EU=S-00002,Proc=BAK

- 8 6 NYCRR 249.3 (a): Compliance Demonstration
- 9 6 NYCRR 249.3 (a): Compliance Demonstration

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 10 ECL 19-0301: Contaminant List
- 11 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 12 6 NYCRR Subpart 201-5: Emission Unit Definition
- 13 6 NYCRR 211.2: Visible Emissions Limited
- 14 6 NYCRR 249.3 (f): Compliance Demonstration

Emission Unit Level

- 15 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

EU=B-00001

- 16 6 NYCRR Subpart 201-5: General Provisions

EU=S-00001

- 17 6 NYCRR Subpart 201-5: General Provisions

EU=S-00002

- 18 6 NYCRR Subpart 201-5: General Provisions



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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Sealing - 6 NYCRR 200.5

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

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

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

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

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

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

Item C: Maintenance of Equipment - 6 NYCRR 200.7

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications,



required to operate such device effectively.

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

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

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

Item E: Emergency Defense - 6 NYCRR 201-1.5

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

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

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

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



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

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

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

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

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

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

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

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

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

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



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

Item K: Open Fires Prohibitions - 6 NYCRR 215.2

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

Item L: Permit Exclusion - ECL 19-0305

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

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

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

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 1: Air pollution prohibited



The initial report is due 7/30/2012.
Subsequent reports are due every 6 calendar month(s).

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

Condition 3: Compliance Demonstration
Effective between the dates of 03/20/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 249.3 (a)

Item 3.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: B-00001

Regulated Contaminant(s):

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

Item 3.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The current emission source configuration is considered BART for emissions of Oxides of Nitrogen. The current emission limit of 0.30 lbs NO_x/MMBtu is the emission limit. Testing shall be completed under an approved protocol once during the term of the permit.

Upper Permit Limit: 0.30 pounds per million Btus

Reference Test Method: EPA RM 7E

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2012.

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

Condition 4: Compliance Demonstration
Effective between the dates of 03/20/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 249.3 (a)

Item 4.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: B-00001

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00379

Facility DEC ID: 6405800003



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

Item 4.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The current emission source configuration is considered BART for emissions of PM-10. The current emissions of 0.10 lbs PM-10/MMBtu is the emission limit. Testing shall be completed once during the term of the permit.

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA Method 201A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2012.

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

Condition 5: Compliance Demonstration
Effective between the dates of 03/20/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 249.3 (a)

Item 5.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: B-00001
Process: OIL

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

Item 5.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The current limit of 1.5% sulfur by weight fuel oil is considered the BART limit. Fuel supplier certifications shall be used to certify the sulfur level for each delivery.

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 1.5 percent by weight

Monitoring Frequency: PER DELIVERY

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00379

Facility DEC ID: 6405800003



Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2012.

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

Condition 6: Compliance Demonstration
Effective between the dates of 03/20/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 249.3 (a)

Item 6.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-00001

Process: POT

Regulated Contaminant(s):

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

Item 6.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The current emission source configuration is considered BART for emissions of PM-10. The current emissions of 168 tons per year is the emission limit effective January 1, 2014. Testing shall be completed under an approved protocol within 6 months after the emission limit effective date above. Emission factors established during the stack test shall be used to calculate emissions on an annual basis rolled monthly. Monitoring of the control device is accomplished through the monitoring conditions required under the primary aluminum MACT and satisfy CAM requirements.

Upper Permit Limit: 168 tons per year

Reference Test Method: EPA Method 201A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2012.

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

Condition 7: Compliance Demonstration
Effective between the dates of 03/20/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 249.3 (a)

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00379

Facility DEC ID: 6405800003



Item 7.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-00001

Process: POT

Regulated Contaminant(s):

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

Item 7.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The current emission source configuration is considered BART for emissions of Oxides of Nitrogen. The current emissions of 50 tons per year is the emission limit effective January 1, 2014. Testing shall be completed under an approved protocol within 6 months after the emission limit effective date above. Emission factors established during the stack test shall be used to calculate emissions on an annual basis rolled monthly.

Upper Permit Limit: 50 tons per year

Reference Test Method: EPA RM 7E

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2012.

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

Condition 8: Compliance Demonstration

Effective between the dates of 03/20/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 249.3 (a)

Item 8.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-00002

Process: BAK

Regulated Contaminant(s):

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

Item 8.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The current emission source configuration is considered

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00379

Facility DEC ID: 6405800003



BART for emissions of PM-10. The current emissions of 24 tons per year is the emission limit effective January 1, 2014. Testing shall be completed under an approved protocol within 6 months after the emission limit effective date above. Emission factors established during the stack test shall be used to calculate emissions on an annual basis rolled monthly. Monitoring of the control device is accomplished under the requirements of the primary aluminum MACT within Alcoa's Title V permit and also satisfies CAM requirements.

Upper Permit Limit: 24 tons per year
Reference Test Method: EPA Method 201A
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2012.
Subsequent reports are due every 6 calendar month(s).

Condition 9: Compliance Demonstration
Effective between the dates of 03/20/2012 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 249.3 (a)

Item 9.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-00002
Process: BAK

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

Item 9.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The current emission source configuration is considered BART for emissions of Oxides of Nitrogen. The current emissions of 203 tons per year is the emission limit effective January 1, 2014. Testing shall be completed under an approved protocol within 6 months after the emission limit effective date above. Emission factors established during the stack test shall be used to calculate emissions on an annual basis rolled monthly.

Upper Permit Limit: 203 tons per year
Reference Test Method: EPA RM 7E
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00379

Facility DEC ID: 6405800003



Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2012.

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



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

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

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

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

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

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

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

STATE ONLY APPLICABLE REQUIREMENTS
The following conditions are state only enforceable.



Condition 10: Contaminant List

Effective between the dates of 03/20/2012 and Permit Expiration Date

Applicable State Requirement:ECL 19-0301

Item 10.1:

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

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

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

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

Condition 11: Unavoidable noncompliance and violations

Effective between the dates of 03/20/2012 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 201-1.4

Item 11.1:

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

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

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective



action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superseded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

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

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

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

Condition 12: Emission Unit Definition
Effective between the dates of 03/20/2012 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 12.1:

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

Emission Unit: B-00001

Emission Unit Description:

FOUR VIRTUALLY IDENTICAL PACKAGE BOILERS
FIRING EITHER NATURAL GAS OR #6 FUEL OIL.

Building(s): 216A

Item 12.2:

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

Emission Unit: S-00001

Emission Unit Description:

ONE POTLINE OF ELECTROLYTIC CELLS AND
ASSOCIATED CONTROL EQUIPMENT. THIS POTLINE
IS CATEGORIZED AS A CENTER WORK PREBAKE-1
(CWPB-1) AS DESCRIBED IN THE DEFINITIONS
SECTION OF EPA'S PRIMARY ALUMINUM MACT
REGULATIONS. THE PERMIT TO CONSTRUCT WAS
ISSUED IN NOVEMBER 1973.

Building(s): 401
402

Item 12.3:

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

Emission Unit: S-00002

Emission Unit Description:

ANODE BAKING FURNACE CONSISTING OF 2 RING
FURNACES AND ASSOCIATED ALUMINA INJECTION
DRY SCRUBBER.

Building(s): 351

Condition 13: Visible Emissions Limited
Effective between the dates of 03/20/2012 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 211.2

Item 13.1:

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

Condition 14: Compliance Demonstration
Effective between the dates of 03/20/2012 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 249.3 (f)

Item 14.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 14.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The conditions in this permit for NO_x, SO₂, and/or PM₁₀ established under Part 249 are based on New York's Best Available Retrofit Technology (BART) Rule (6 NYCRR Part 249), are effective on the date of this permit's issuance, and are state-enforceable. Federal enforceability of these facility-specific conditions is effective on the date on which these emission limits, as submitted to EPA as a revision to New York State's Implementation Plan for Regional Haze, are published in the Federal Register.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

Condition 15: Process Definition By Emission Unit



Effective between the dates of 03/20/2012 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 15.1:

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

Emission Unit: B-00001
Process: GAS Source Classification Code: 2-02-002-02
Process Description:
FOUR VIRTUALLY IDENTICAL BOILERS CAPABLE
OF BURNING NATURAL GAS.

Emission Source/Control: B0001 - Combustion

Emission Source/Control: B0002 - Combustion

Emission Source/Control: B0003 - Combustion

Emission Source/Control: B0004 - Combustion

Item 15.2:

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

Emission Unit: B-00001
Process: OIL Source Classification Code: 1-02-004-01
Process Description:
FOUR VIRTUALLY IDENTICAL BOILERS CAPABLE
OF BURNING NO. 6 FUEL OIL.

Emission Source/Control: B0001 - Combustion

Emission Source/Control: B0002 - Combustion

Emission Source/Control: B0003 - Combustion

Emission Source/Control: B0004 - Combustion

Item 15.3:

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

Emission Unit: S-00001
Process: POT Source Classification Code: 3-03-001-01
Process Description:
ELECTROLYTIC REDUCTION OF ALUMINA INTO
ALUMINUM. THIS POTLINE IS CATEGORIZED AS A
CENTER WORK PREBAKE-1 (CWPB-1) AS DESCRIBED
IN THE DEFINITIONS SECTION OF EPA'S PRIMARY
ALUMINUM MACT REGULATIONS.

Emission Source/Control: SA398 - Control
Control Type: SCRUBBER - DRY ALUMINA INJECTION



Emission Source/Control: SS198 - Process

Item 15.4:

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

Emission Unit: S-00002

Process: BAK

Source Classification Code: 3-03-001-05

Process Description:

ANODE BAKING FURNACE CONSISTING OF 2 RING
FURNACES AND ASSOCIATED ALUMINA INJECTION
DRY SCRUBBER.

Emission Source/Control: SS78S - Control

Control Type: SCRUBBER - DRY ALUMINA INJECTION

Emission Source/Control: SS078 - Process

Condition 16: General Provisions
Effective between the dates of 03/20/2012 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 16.1:

This Condition applies to Emission Unit: B-00001

Item 16.2:

This section of the permit contains terms and conditions that are not federally enforceable and are not required under the Act or under any of its applicable requirements. Terms and conditions so designated are not subject to the requirements of Section 201-6.4 of Part 201.

Item 16.3:

Any person who owns and/or operates emission sources subject to this permit shall operate and maintain all emission sources and required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate 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 control devices may be sufficient reason for the Department to revoke or deny a permit.

Item 16.4:

The owner or operator of the emission sources subject to this permit 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 during normal operating hours, for the purpose of determining compliance with this and any other state or federal air pollution control requirements, regulations or law.

Condition 17: General Provisions
Effective between the dates of 03/20/2012 and Permit Expiration Date



Applicable State Requirement:6 NYCRR Subpart 201-5

Item 17.1:

This Condition applies to Emission Unit: S-00001

Item 17.2:

This section of the permit contains terms and conditions that are not federally enforceable and are not required under the Act or under any of its applicable requirements. Terms and conditions so designated are not subject to the requirements of Section 201-6.4 of Part 201.

Item 17.3:

Any person who owns and/or operates emission sources subject to this permit shall operate and maintain all emission sources and required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate 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 control devices may be sufficient reason for the Department to revoke or deny a permit.

Item 17.4:

The owner or operator of the emission sources subject to this permit 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 during normal operating hours, for the purpose of determining compliance with this and any other state or federal air pollution control requirements, regulations or law.

Condition 18: General Provisions

Effective between the dates of 03/20/2012 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 18.1:

This Condition applies to Emission Unit: S-00002

Item 18.2:

This section of the permit contains terms and conditions that are not federally enforceable and are not required under the Act or under any of its applicable requirements. Terms and conditions so designated are not subject to the requirements of Section 201-6.4 of Part 201.

Item 18.3:

Any person who owns and/or operates emission sources subject to this permit shall operate and maintain all emission sources and required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate 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 control devices may be sufficient reason for the Department to revoke or deny a permit.

Item 18.4:

The owner or operator of the emission sources subject to this permit must maintain all

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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 during normal operating hours, for the purpose of determining compliance with this and any other state or federal air pollution control requirements, regulations or law.

