

New York State Department of Environmental Conservation
Facility DEC ID: 6405800003



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 6-4058-00003/00365
Effective Date: 09/01/2002 Expiration Date: 09/01/2007

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

Contact: JAMES M SHAW
ALCOA INC
PO BOX 150
MASSENA, NY 13662-0150
(315) 764-4126

Facility: ALCOA MASSENA OPERATIONS (WEST PLANT)
PARK AVENUE EAST
MASSENA, NY 13662

Contact: JAMES M SHAW
ALCOA INC
PO BOX 150
MASSENA, NY 13662-0150
(315) 764-4126

Description:

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

Permit Administrator: BRIAN D FENLON
STATE OFFICE BLDG
317 WASHINGTON ST
WATERTOWN, NY 13601-3787

Authorized Signature: _____ Date: ____ / ____ / ____

FINAL



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 6
HEADQUARTERS



DEC GENERAL CONDITIONS

****** General Provisions ******

n0 For the purpose of your Title V permit, the following section contains state-only enforceable terms and conditions

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department
Applicable State Requirement: ECL 19-0305.

Item 1.1:

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations
Applicable State Requirement: ECL 3-0301.2(m)

Item 2.1:

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for Permit Renewals 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,



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regulation or another permit condition. Applications for permit transfer should be submitted prior to actual 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 6 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 6 Headquarters
Division of Environmental Permits
State Office Building, 317 Washington Street
Watertown, NY 13601-3787
(315) 785-2245



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ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

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Authorized Activity By Standard Industrial Classification Code:
3334 - PRIMARY ALUMINUM
3354 - ALUMINUM EXTRUDED PRODUCTS



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 Surface Coating Exemption
- 2 Emission Unit Definition
- 3 Recordkeeping and reporting of compliance monitoring
- 4 Monitoring, Related Recordkeeping, and Reporting Requirements.
- 5 Compliance Certification
- 6 Compliance Certification
- 7 Non Applicable requirements
- 8 Required Emissions Tests - Facility Level
- 9 Compliance Certification
- 10 Recordkeeping requirements
- 11 Compliance Certification
- 12 Compliance Certification
- 13 Compliance Certification
- 14 Compliance Certification
- 15 Compliance Certification
- 16 Equipment Specifications for Cold Cleaning Batch Degreasing
- 17 Compliance Certification
- 18 Compliance Certification
- 19 Compliance Certification
- 20 Incorporation by Reference
- 21 Compliance Provisions - Test Plan
- 22 Compliance Certification
- 23 Reference test methods for TF and POM emissions
- 24 Alternative test methods for TF or POM emissions
- 25 Accidental release provisions.
- 26 Recycling and Emissions Reduction

Emission Unit Level

- 27 Emission Point Definition By Emission Unit
- 28 Process Definition By Emission Unit
- 29 Compliance Certification (EU=A-00001,EP=F078A,Proc=HT2,ES=AF78A)
- 30 Compliance Certification (EU=A-00001,EP=F078B,Proc=HT2,ES=AF78B)
- 31 Compliance Certification (EU=A-00002,Proc=FAB)
- 32 Compliance Certification (EU=A-00002,Proc=MRS)
- 33 Compliance Certification (EU=A-00002,Proc=MRS)
- 34 Corrective Action
- 35 Corrective Action
- 36 Corrective Action
- 37 Corrective Action
- 38 General Provisions
- 39 Compliance Certification (EU=B-00001)
- 40 Compliance Certification (EU=B-00001,Proc=OIL)
- 41 Compliance Certification (EU=B-00001,Proc=OIL)



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- 42 Records retention
- 43 Sulfur in fuel exception reporting
- 44 Compliance Certification (EU=B-00001,Proc=OIL)
- 45 Sampling, compositing, and analysis of fuel samples
- 46 Compliance Certification (EU=B-00001,Proc=OIL)
- 47 Compliance Certification (EU=B-00001,Proc=OIL,ES=B0001)
- 48 Compliance Certification (EU=B-00001,Proc=OIL,ES=B0002)
- 49 Compliance Certification (EU=B-00001,Proc=OIL,ES=B0003)
- 50 Compliance Certification (EU=B-00001,Proc=OIL,ES=B0004)
- 51 Compliance Certification (EU=B-00001,EP=00001,Proc=GAS)
- 52 Compliance Certification (EU=B-00001,EP=00001,Proc=OIL)
- 53 Compliance Certification (EU=B-00001,EP=00002,Proc=GAS)
- 54 Compliance Certification (EU=B-00001,EP=00002,Proc=OIL)
- 55 Compliance Certification (EU=C-00001)
- 56 Compliance Certification (EU=C-00001)
- 57 Compliance Certification (EU=C-00001)
- 58 Compliance Certification (EU=C-00001,Proc=CD1,ES=C029B)
- 59 Compliance Certification (EU=C-00001,Proc=CD1,ES=C029B)
- 60 Compliance Certification (EU=C-00001,EP=I0029,Proc=CD1)
- 61 Compliance Certification (EU=C-00001,EP=I0029,Proc=CD1)
- 62 Compliance Certification (EU=C-00001,EP=I0030,Proc=CM1,ES=C0030)
- 63 Compliance Certification (EU=C-00002)
- 64 Compliance Certification (EU=C-00002)
- 65 Compliance Certification (EU=C-00002)
- 66 Compliance Certification (EU=C-00002)
- 67 Compliance Certification (EU=C-00002,Proc=CD2)
- 68 Compliance Certification (EU=C-00002,Proc=CD2)
- 69 Compliance Certification (EU=C-00002,Proc=CD2,ES=C044B)
- 70 Compliance Certification (EU=C-00002,Proc=CD2,ES=C044B)
- 71 Compliance Certification (EU=D-00001,Proc=PRT)
- 72 Compliance Certification (EU=D-00001,Proc=PRT)
- 73 method 24 40 CFR 60
- 74 samples
- 75 Compliance Certification (EU=D-00001,Proc=PRT)
- 76 Compliance Certification (EU=D-00001,Proc=PRT)
- 77 Compliance Certification (EU=D-00001,Proc=PRT,ES=DF073)
- 78 Compliance Certification (EU=M-00001)
- 79 Compliance Certification (EU=M-00001)
- 80 Compliance Certification (EU=M-00001)
- 81 Compliance Certification (EU=M-00001)
- 82 Calculation of Secondary Aluminum Processing Unit PM emissions
- 83 Compliance Certification (EU=M-00001)
- 84 Compliance Certification (EU=M-00001)
- 85 Compliance Certification (EU=M-00001)
- 86 Compliance Certification (EU=M-00001)
- 87 Testing of Representative Emission Units
- 88 Compliance Certification (EU=M-00001)
- 89 Compliance Certification (EU=M-00001)

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- 90 Performance Test/Compliance Demonstration Requirements and Procedures - Feed/Charge Weight Measurement.
- 91 Compliance Certification (EU=M-00001)
- 92 Equations for Determining Compliance - Secondary Aluminum Processing Unit
- 93 Compliance Certification (EU=M-00001)
- 94 Compliance Certification (EU=M-00001)
- 95 Compliance Certification (EU=M-00001,EP=I003C,Proc=MHS,ES=M003C)
- 96 Compliance Certification (EU=M-00001,EP=I024F,Proc=MHA,ES=M024F)
- 97 Compliance Certification (EU=M-00002)
- 98 Compliance Certification (EU=M-00002)
- 99 Compliance Certification (EU=M-00002)
- 100 Compliance Certification (EU=M-00002)
- 101 Calculation of Secondary Aluminum Processing Unit PM emissions
- 102 Compliance Certification (EU=M-00002)
- 103 Compliance Certification (EU=M-00002)
- 104 Compliance Certification (EU=M-00002)
- 105 Compliance Certification (EU=M-00002)
- 106 Testing of Representative Emission Units
- 107 Compliance Certification (EU=M-00002)
- 108 Compliance Certification (EU=M-00002)
- 109 Performance Test/Compliance Demonstration Requirements and Procedures - Feed/Charge Weight Measurement.
- 110 Compliance Certification (EU=M-00002)
- 111 Equations for Determining Compliance - Secondary Aluminum Processing Unit
- 112 Compliance Certification (EU=M-00002)
- 113 Compliance Certification (EU=M-00002)
- 114 General requirements
- 115 Compliance Certification (EU=P-00001,Proc=PWS)
- 116 Compliance Certification (EU=S-00001,Proc=POT)
- 117 Compliance Certification (EU=S-00001,Proc=POT)
- 118 Compliance Certification (EU=S-00001,Proc=POT)
- 119 Performance Test Requirements - Previous Control Device Tests
- 120 Potline TF emission rate calculation
- 121 Procedure to determine weights
- 122 Calculation of aluminum production rate
- 123 Selection of monitoring parameters - potlines and anode bake furnaces
- 124 Selection of monitoring parameters - redetermining operating limits
- 125 Compliance Certification (EU=S-00001,Proc=POT)
- 126 Reduced sampling frequency - contents of request letter
- 127 Reduced sampling frequency request - contents of the approved alternative requirement
- 128 Compliance Certification (EU=S-00001,Proc=POT)
- 129 Compliance Certification (EU=S-00001,Proc=POT)
- 130 Compliance Certification (EU=S-00001,Proc=POT)
- 131 Corrective action procedures
- 132 Exceedances



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- 133 Compliance Certification (EU=S-00001,Proc=POT)
- 134 Accuracy and calibration requirements
- 135 Alternative operating parameters
- 136 Definition of potline in Method 14
- 137 Installation of manifolds for potlines subject to Method 14
- 138 Performance test reports
- 139 Startup, shutdown, and malfunction plan and reports
- 140 Startup, shutdown, and malfunction plan and reports
- 141 Compliance Certification (EU=S-00001,Proc=POT)
- 142 Compliance Certification (EU=S-00001,Proc=POT)
- 143 Compliance Certification (EU=S-00001,Proc=POT)
- 144 Compliance Certification (EU=S-00001,Proc=POT)
- 145 Compliance Certification (EU=S-00001,Proc=POT)
- 146 Compliance Certification (EU=S-00002,Proc=BAK)
- 147 Compliance Certification (EU=S-00002,Proc=BAK)
- 148 Performance Test Requirements - Previous Control Device Tests
- 149 Compliance Certification (EU=S-00002,Proc=BAK)
- 150 Compliance Certification (EU=S-00002,Proc=BAK)
- 151 Calculation of anode bake furnace TF emission rate
- 152 Calculation of anode bake furnace POM emission rate
- 153 Procedure to determine weights
- 154 Determination of rate of green anode introduction into furnace
- 155 Selection of monitoring parameters - potlines and anode bake furnaces
- 156 Selection of monitoring parameters - redetermining operating limits
- 157 Compliance Certification (EU=S-00002,Proc=BAK)
- 158 Compliance Certification (EU=S-00002,Proc=BAK)
- 159 Compliance Certification (EU=S-00002,Proc=BAK)
- 160 Compliance Certification (EU=S-00002,Proc=BAK)
- 161 Compliance Certification (EU=S-00002,Proc=BAK)
- 162 Corrective action procedures
- 163 Exceedances
- 164 Compliance Certification (EU=S-00002,Proc=BAK)
- 165 Accuracy and calibration requirements
- 166 Alternative operating parameters
- 167 Performance test reports
- 168 Startup, shutdown, and malfunction plan and reports
- 169 Startup, shutdown, and malfunction plan and reports
- 170 Compliance Certification (EU=S-00002,Proc=BAK)
- 171 Compliance Certification (EU=S-00002,Proc=BAK)
- 172 Compliance Certification (EU=S-00002,Proc=BAK)
- 173 Compliance Certification (EU=S-00002,Proc=BAK)
- 174 Compliance Certification (EU=S-00002,Proc=BAK)
- 175 Compliance Certification (EU=S-00002,EP=S0078,Proc=BAK,ES=SS078)
- 176 Compliance Certification (EU=S-00002,EP=S0078,Proc=BAK,ES=SS078)
- 177 Emission Limits for Existing Sources - Paste Production Plants
- 178 Initial compliance provisions for paste production plants
- 179 Selection of monitoring parameters - paste production plants
- 180 Selection of monitoring parameters - redetermining operating limits



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- 181 Compliance Certification (EU=S-00003)
- 182 Compliance Certification (EU=S-00003)
- 183 Compliance Certification (EU=S-00003)
- 184 Corrective action procedures
- 185 Exceedances
- 186 Accuracy and calibration requirements
- 187 Alternative operating parameters
- 188 Startup, shutdown, and malfunction plan and reports
- 189 Startup, shutdown, and malfunction plan and reports
- 190 Compliance Certification (EU=S-00003)
- 191 Compliance Certification (EU=S-00003)
- 192 Compliance Certification (EU=S-00003)
- 193 Compliance Certification (EU=S-00003)
- 194 Compliance Certification (EU=S-00003)
- 195 Compliance Certification (EU=S-00003,EP=S0100)
- 196 Compliance Certification (EU=S-00004,Proc=M01,ES=SS017)
- 197 Compliance Certification (EU=S-00004,Proc=M16)
- 198 Compliance Certification (EU=S-00005,Proc=PST)
- 199 Compliance Certification (EU=W-00001,Proc=WWT)
- 200 Compliance Certification (EU=W-00001,Proc=WWT)

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 201 Contaminant List
- 202 Unavoidable noncompliance and violations
- 203 Compliance Demonstration
- 204 Emissions other than total fluorides
- 205 Air pollution prohibited
- 206 Compliance Demonstration
- 207 Compliance Demonstration
- 208 Compliance Demonstration

Emission Unit Level

- 209 Compliance Demonstration
- 210 Compliance Demonstration
- 211 Compliance Demonstration
- 212 Compliance Demonstration
- 213 Compliance Demonstration
- 3355 - ALUMINUM ROLLING & DRAWING NEC

Permit Effective Date: 09/01/2002

Permit Expiration Date: 09/01/2007



FEDERALLY ENFORCEABLE CONDITIONS

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.

Item A: 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

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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 occurred. This notice must contain a description of the

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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: Public Access to Recordkeeping for Title V Facilities - 6NYCRR Part 201-1.10(b)

The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

Item I: 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

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requirements, regulations, or law.

- Item J: 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 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 K: Timely Application for the Renewal of Title V Permits - 6 NYCRR Part 201-6.3(a)(4)**
Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.
- Item L: Certification by a Responsible Official - 6 NYCRR Part 201-6.3(d)(12)**
Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- Item M: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.5(a)(2)**
The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- Item N: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission**

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Requirements - 6 NYCRR Part 201-6.5(a)(3)

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

Item O: Providing Information Upon Request - 6 NYCRR Part 201-6.5(a)(4)

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The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The permittee shall also, on request, furnish the Department with copies of records required to be kept by the permit. Where information is claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

Item P: Cessation or Reduction of Permitted Activity Not a Defense - 6NYCRR Part 201-6.5(a)(5)

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

Item Q: Property Rights - 6 NYCRR Part 201-6.5(a)(6)

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

Item R: Fees - 6 NYCRR Part 201-6.5(a)(7)

The owner and/or operator of a stationary source shall pay fees to the department consistent with the fee schedule authorized by 6 NYCRR Subpart 482-2.

Item S: Right to Inspect - 6 NYCRR Part 201-6.5(a)(8)

Upon presentation of credentials and other documents, as may be required by law, the permittee shall allow the Department or an authorized representative to perform the following:

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- i. Enter upon the permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- iii. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- iv. As authorized by the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

Item T: Severability - 6 NYCRR Part 201-6.5(a)(9)

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

Item U: Progress Reports and Compliance Schedules - 6 NYCRR Part 201-6.5(d)(5)

Progress reports consistent with an applicable schedule of compliance must be submitted at least semiannually on a calendar year basis, or at a more frequent period if specified in the applicable requirement or by the Department elsewhere in this permit. These reports shall be submitted to the Department within 30 days after the end of a reporting period. Such progress reports shall contain the following:

- i. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
- ii. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

Item V: Off Permit Changes - 6 NYCRR Part 201-6.5(f)(6)

No permit revision will be required for operating changes

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that contravene an express permit term, provided that such changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the Administrator and the Department with written notification in advance of the proposed changes within a minimum of 7 days as required by 6 NYCRR §201-6.5(f)(6).

Item W: Permit Shield - 6 NYCRR Part 201-6.5(g)

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;

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iii. The applicable requirements of Title IV of the Act;

iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

Item X: Reopening for Cause - 6 NYCRR Part 201-6.5(i)

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

i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.

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

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

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

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

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

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is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

Item Y: 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 Z: 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 AA: 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 BB: 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.



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Item CC: 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 subject to annual compliance certification requirements for Title V permits only.

Condition 1: Surface Coating Exemption

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 201-3.2(c)(17)

Item 1.1:

The following activity is exempt from permitting requirements, but must be included in the Title V permit application: Surface coating and related operations which uses less than 25 gallons per month of coating materials (paints) and cleaning solvents, combined, subject to the following:

- (i) the facility is located outside of any severe ozone non attainment area; and
- (ii) all abrasive cleaning and surface coating operations are performed in an enclosed building where such operations are exhausted into appropriate emission control devices.

Condition 2: Emission Unit Definition

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 201-6.

Item 2.1:

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

Emission Unit: A-00001

Emission Unit Description:

PROCESS HEATERS TREAT SOLID ALUMINUM AND
EMIT SMALL QUANTITIES OF PROCESS EMISSIONS
DUE TO RESIDUALS ON THE ALUMINUM.
EMISSIONS CO-MINGLE WITH
PRODUCTS-OF-COMBUSTION (POC) FROM NATURAL
GAS BURNERS.

Building(s): 131



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140
222
234

Item 2.2:

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

Emission Unit: A-00002

Emission Unit Description:

INSIGNIFICANT SHOP SOURCES.

Building(s): 131
140

Item 2.3:

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 2.4:

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

Emission Unit: C-00001

Emission Unit Description:

CHIP DRYER #1 WITH ASSOCIATED CONTROL
EQUIPMENT (CYCLONE AND AFTERBURNER) AND
CHIP MELTER #1.

Building(s): 221

Item 2.5:

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

Emission Unit: C-00002

Emission Unit Description:

CHIP DRYER #2 WITH ASSOCIATED CONTROL
EQUIPMENT (CYCLONE AND THERMAL OXIDIZER)
AND CHIP MELTER #2.

Building(s): 221

Item 2.6:

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

Emission Unit: D-00001

Emission Unit Description:

MISCELLANEOUS POINT SOURCES.



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Building(s): 140
220
222

Item 2.7:

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

Emission Unit: F-00001

Emission Unit Description:

ALCOA ENGINEERED PRODUCTS (AEP) FUGITIVES.

Building(s): 131
140
220
222

Item 2.8:

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

Emission Unit: M-00001

Emission Unit Description:

ALUMINUM MELTING AND HOLDING FURNACES.
ALL FURNACES ARE REVERBERATORY, CENTER
CHARGED. FURNACE CHARGE MOLTEN ALUMINUM,
CLEAN SCRAP, ALLOYING INGREDIENTS AND SALT.
NO GAS FLUXING IS DONE IN ANY FURNACE.

Building(s): 221

Item 2.9:

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

Emission Unit: M-00002

Emission Unit Description:

IN-LINE FILTERBOX FLUXING UNITS USE A
MIXTURE OF ARGON AND CHLORINE GAS TO PURIFY
MOLTEN ALUMINUM AS IT IS BEING CAST INTO
INGOTS OR ROD. TYPICALLY THERE IS ONE
FILTERBOX PER FURNACE, AND MULTIPLE
FURNACES/FILTERBOXES SERVE A SINGLE CASTING
COMPLEX. WITHIN A CASTING COMPLEX, THESE
FILTERBOXES CAN BE EXHAUSTED TOGETHER OR
INDIVIDUALLY, HOWEVER, ONLY ONE FILTER BOX
IS FLUXING AT ANY TIME SINCE THERE IS ONLY
ONE CASTING APPARATUS PER COMPLEX. THUS
ONLY ONE FILTERBOX EMISSION SOURCE AND
POINT REPRESENTS ALL FILTERBOXES IN A
SINGLE CASTING COMPLEX.

Building(s): 221

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Item 2.10:

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

Emission Unit: P-00001

Emission Unit Description:

This emission unit consists of all the parts washers in the facility.

Item 2.11:

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 2.12:

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

Emission Unit: S-00002

Emission Unit Description:

ANODE BAKING FURNACE AND ASSOCIATED ALUMINA INJECTION DRY SCRUBBER.

Building(s): 351

Item 2.13:

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

Emission Unit: S-00003

Emission Unit Description:

PASTE PRODUCTION PLANT AND ASSOCIATED COKE INJECTION SCRUBBER.

Building(s): 354C

Item 2.14:

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

Emission Unit: S-00004

Emission Unit Description:

MATERIAL HANDLING OPERATIONS FOR ALUMINA, CARBON AND OTHER MISCELLANEOUS SOLID MATERIALS. EACH ARE CONTROLLED BY A FABRIC FILTER TO LIMIT PARTICULATE EMISSIONS TO



THE ENVIRONMENT.

Building(s): 332
344
351
354B
354C
378
380
435
440A
440E
440H
441
441C
446A
446B
446C
469

Item 2.15:

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

Emission Unit: S-00005

Emission Unit Description:

COAL TAR PITCH UNLOADING AND STORAGE.
INCLUDES FUGITIVES FROM THE PITCH UNLOADING
PUMPS AND PITCH RECIRCULATING PUMPS.

Building(s): 352B
352F

Item 2.16:

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

Emission Unit: S-00006

Emission Unit Description:

SMELTING AND ANODE PLANT FUGITIVES
EXCEPTING POTLINE FUGITIVES (THE POTLINE
FUGITIVES ARE REGULATED UNDER PRIMARY
ALUMINUM MACT REGULATIONS).

Building(s): 314
332
350
0351
352B
370
372
374



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376

380

Item 2.17:

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

Emission Unit: W-00001

Emission Unit Description:

WASTEWATER TREATMENT OPERATIONS.

Building(s): 79C

**Condition 3: Recordkeeping and reporting of compliance monitoring
Effective between the dates of 09/01/2002 and 09/01/2007**

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

Item 3.1:

The following information must be included in any required compliance monitoring records and reports:

- (i) The date, place, and time of sampling or measurements;
- (ii) The date(s) analyses were performed;
- (iii) The company or entity that performed the analyses;
- (iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;
- (v) The results of such analyses including quality assurance data where required; and
- (vi) The operating conditions as existing at the time of sampling or measurement.

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.3 of this Part 201.

**Condition 4: Monitoring, Related Recordkeeping, and Reporting
Requirements.
Effective between the dates of 09/01/2002 and 09/01/2007**

Applicable Federal Requirement: 6NYCRR 201-6.5(c)(2)

Item 4.1:

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

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Condition 5: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 201-6.5(c)(3)(ii)

Item 5.1:

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To meet the requirements of this facility permit with respect to reporting, the permittee must:

Submit reports of any required monitoring at a minimum frequency of every 6 months, based on a calendar year reporting schedule. These reports shall be submitted to the Department within 30 days after the end of a reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

(1) For emissions of a hazardous air pollutant or a toxic air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.

(2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48

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hours.

(3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.

(4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If any of the above conditions are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) through (4) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.3(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraph (1) through (4) of this section must also be identified in the 6 month monitoring report required above.

If the permittee seeks to have a violation excused as provided in 201-1.4, the permittee shall report such violations as required under 201-1.4(b). However, in no case may reports of any deviation be on a less frequent basis than those described in paragraphs (1) through (4) above. 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.

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

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deviations from these requirements.

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

All semiannual reports shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Compliance Monitoring and Enforcement (BCME) in the DEC central office). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.5(e), contained elsewhere in this permit.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

Condition 6: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Requirements for compliance certifications with terms and conditions contained in this facility permit include the following:

- i. Compliance certifications shall contain:
 - the identification of each term or condition of the permit that is the basis of the certification;
 - the compliance status;

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- whether compliance was continuous or intermittent;
- the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
- such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions;
- and
- such additional requirements as may be specified elsewhere in this permit related to compliance certification.

ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.

iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.

iv. All compliance certifications shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Compliance Monitoring and Enforcement (BCME) in the DEC central office). Please send annual compliance certifications to Chief of the Stationary Source Compliance Section, the Region 2 EPA representative for the Administrator, at the following address:

USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

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State Office Building
317 Washington Street
Watertown, NY 13601-3787

The address for the BCME is as follows:

NYSDEC
Bureau of Compliance Monitoring
and Enforcement
625 Broadway
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/03.
Subsequent reports are due on the same day each year

Condition 7: Non Applicable requirements
Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 7.1:

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

6NYCRR 212.4(c)

Emission Unit: M00001

Reason: This emission unit will be complying with the PM emission limits contained in the Secondary Aluminum Production NESHAP (40 CFR Part 63 Subpart RRR) and thus is exempt from the PM limits contained in 6 NYCRR Part 212.4(c) as allowed by 6 NYCRR Part 212.5(d).

6NYCRR 212.4(c)

Emission Unit: M00002

Reason: This emission unit will be complying with the PM emission limits contained in the Secondary Aluminum Production NESHAP (40 CFR Part 63 Subpart RRR) and thus is exempt from the PM limits contained in 6 NYCRR Part 212.4(c) as allowed by 6 NYCRR Part 212.5(d).

6NYCRR 225-1.7(b)

Emission Unit: B00001 Process: OIL

Reason: The requirement for a SO₂ CEMS does not apply since Alcoa meets the exception contained in 6 NYCRR Part



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225-1.7(b)(2) by virtue of performing the sampling and recordkeeping contained in the permit condition cited 6 NYCRR Part 225-1.8(a).

6NYCRR 228.1(a)

Emission Unit: A00002 Emission Point: F0031 Process: MRS Source: AF031

Reason: This source is exempt from permitting requirements per 6 NYCRR Part 201-3.3(c)(45). As such the VOC RACT requirements of 6 NYCRR Part 228 for surface coating processes do not apply.

6NYCRR 228.1(a)

Emission Unit: A00002 Emission Point: F0065 Process: MRS Source: AF065

Reason: This source is exempt from permitting requirements per 6 NYCRR Part 201-3.3(c)(45). As such the VOC RACT requirements of 6 NYCRR Part 228 for surface coating processes do not apply.

Condition 8: Required Emissions Tests - Facility Level
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 202-1.1

Item 8.1:

An acceptable report of measured emissions shall be submitted, as required by the commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation.

Condition 9: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 202-2.1

Item 9.1:

The Compliance Certification activity will be performed for the Facility.

Item 9.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year.

p0

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due by April 15th for previous calendar year

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Condition 10: Recordkeeping requirements
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 202-2.5

Item 10.1:

(a) The following records shall be maintained for at least five years:

- (1) a copy of each emission statement submitted to the department; and
- (2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

Condition 11: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.

Item 11.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 11.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

All sources that employ control devices to limit particulate emissions, shall be monitored and maintained according to the Operation and Maintenance (O & M) plan submitted and approved by the Department in order to insure proper operation and control. The O & M plan shall be considered a "living" document and will be changed and improved over time. Each change shall be submitted to the department for approval. Exceedances of the proper operating limits shall be reported semi-annually. Records shall be maintained for a minimum of five years.

Compliance testing will be done upon request from the Department.



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Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 12: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.4(c)

Item 12.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00002

Emission Unit: S-00004

Emission Unit: A-00001

Process: EPH

Emission Unit: A-00001

Process: HMO

Emission Unit: A-00001

Process: HT1

Emission Unit: C-00001

Process: CD1

Emission Unit: C-00001

Process: CM1

Emission Unit: D-00001

Process: ALB

Emission Unit: D-00001

Process: SKD

Emission Unit: S-00002

Process: BAK

Emission Unit: A-00001

Process: HT2

Emission Source: AF014

Emission Unit: A-00001



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Process: HT2 Emission Source: AF015

Emission Unit: A-00001
Process: HT2 Emission Source: AF02A

Emission Unit: A-00001
Process: HT2 Emission Source: AF02B

Emission Unit: C-00002
Process: CD2 Emission Source: C0044

Emission Unit: C-00002
Process: CM2 Emission Source: C0045

Emission Unit: S-00003 Emission Point: S0100

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

Item 12.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions of solid particulates are limited to less than 0.050 grains of particulates per cubic foot of exhaust gas expressed at standard conditions on a dry gas basis. Compliance testing shall be conducted upon request from the department.

Upper Permit Limit: 0.050 grains per dscf

Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 13: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.6(a)

Item 13.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:



New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003

Emission Unit: S-00004

Emission Unit: S-00005

Emission Unit: S-00003 Emission Point: S0100

Emission Unit: A-00001

Process: EPH

Emission Unit: A-00001

Process: HMO

Emission Unit: A-00001

Process: HT1

Emission Unit: D-00001

Process: ALB

Emission Unit: D-00001

Process: CCT

Emission Unit: D-00001

Process: SKD

Emission Unit: A-00001

Process: HT2

Emission Source: AF014

Emission Unit: A-00001

Process: HT2

Emission Source: AF015

Emission Unit: A-00001

Process: HT2

Emission Source: AF02A

Emission Unit: A-00001

Process: HT2

Emission Source: AF02B

Emission Unit: W-00001

Emission Unit: C-00001

Process: CD1

Emission Unit: C-00002

Process: CD2

Emission Unit: F-00001

Process: FB1

Emission Unit: F-00001

New York State Department of Environmental Conservation

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Facility DEC ID: 6405800003



Process: FB2

Emission Unit: F-00001

Process: FB3

Emission Unit: F-00001

Process: FC1

Emission Unit: F-00001

Process: FC2

Emission Unit: A-00002

Emission Unit: M-00001

Emission Unit: M-00002

Emission Unit: C-00001

Process: CM1

Emission Unit: C-00002

Process: CM2

Emission Unit: F-00001

Process: FC3

Emission Unit: S-00006

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 13.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

No person will 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.

Upper Permit Limit: 20 percent

Reference Test Method: EPA Method 9

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION



New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 14: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.10(c)(1)

Item 14.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00001

Process: HMO

Emission Unit: S-00001

Process: POT

Emission Unit: A-00001 Emission Point: I0014

Emission Unit: A-00001 Emission Point: I015A

Emission Unit: A-00001 Emission Point: I015B

Emission Unit: A-00001 Emission Point: F0075

Emission Unit: A-00001 Emission Point: F0076

Emission Unit: A-00001 Emission Point: F074A

Emission Unit: A-00001 Emission Point: F074B

Emission Unit: A-00001 Emission Point: F0014

Emission Unit: A-00001 Emission Point: F0015

Emission Unit: A-00001 Emission Point: F001A

Emission Unit: A-00001 Emission Point: F001B

Emission Unit: A-00001 Emission Point: F001C

Emission Unit: A-00001 Emission Point: F001D

Emission Unit: A-00001 Emission Point: F001E

Emission Unit: A-00001 Emission Point: F002A



Emission Unit: A-00001 Emission Point: F002B
Emission Unit: A-00001 Emission Point: I0026
Emission Unit: A-00001 Emission Point: I0027
Emission Unit: A-00001 Emission Point: I0043
Emission Unit: A-00001 Emission Point: I0046
Emission Unit: M-00001 Emission Point: I001A
Emission Unit: M-00001 Emission Point: I001B
Emission Unit: M-00001 Emission Point: I001C
Emission Unit: M-00001 Emission Point: I001D
Emission Unit: M-00001 Emission Point: I0034
Emission Unit: M-00001 Emission Point: I0035
Emission Unit: M-00001 Emission Point: I003A
Emission Unit: M-00001 Emission Point: I003C
Emission Unit: M-00001 Emission Point: I024C
Emission Unit: M-00001 Emission Point: I024D
Emission Unit: A-00002 Emission Point: F0067

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

Item 14.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission rate potential of oxides of nitrogen (NO_x) from each emission point shall remain less than 3.0 pounds per hour. A reasonably available control technology (RACT) analysis is not required for emission points with NO_x emission rate potentials less than 3.0 pounds per hour at facilities located outside the lower Orange County and New York City metropolitan areas. Compliance testing shall be

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

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conducted upon request from the Department.

Upper Permit Limit: 3.0 pounds per hour

Reference Test Method: EPA Method 7

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 15: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.10(c)(1)

Item 15.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00001 Emission Point: F0014

Emission Unit: A-00001

Process: HT1

Emission Unit: A-00001 Emission Point: F0015

Emission Unit: A-00001 Emission Point: F002A

Emission Unit: A-00001 Emission Point: F002B

Emission Unit: S-00005

Process: PUN

Emission Unit: W-00001

Process: OWT

Emission Unit: W-00001

Process: WWT

Emission Unit: F-00001

Emission Unit: A-00002 Emission Point: F0067

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 15.2:

Compliance Certification shall include the following monitoring:



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Facility DEC ID: 6405800003

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission rate potential of Volatile Organic Compounds (VOCs) from each emission point shall remain less than 3.0 pounds per hour. A reasonably available control technology (RACT) analysis is not required for emission points with VOC emission rate potentials less than 3.0 pounds per hour at facilities located outside the lower Orange County and New York City metropolitan areas. Compliance testing shall be conducted upon request from the Department.

Upper Permit Limit: 3.0 pounds per hour

Reference Test Method: EPA Method 7E

Monitoring Frequency: AS REQUIRED - SEE MONITORING

DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 16: Equipment Specifications for Cold Cleaning Batch Degreasing

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 226.

Item 16.1:

A. Equipment specifications:

1. A cover shall be provided which can be operated easily.
2. The drainage facility shall be internal (under cover), if practical.
3. A control system that limits VOC emissions to those achievable with equipment having a freeboard ratio greater than or equal to 0.7, or a water cover where the solvent is insoluble in and heavier than water, where the solvent being used has a vapor pressure greater than 33mm Hg at 38°C (100°F) or where the solvent is heated above 50°C (120°F)

B. Operating requirements:

1. Clean parts shall be drained at least 15 seconds or until dripping ceases.

C. General requirements:

No person shall conduct solvent metal cleaning unless:

1. Solvent is stored in covered containers and waste solvent is transferred or disposed of in such a manner that less than 20 percent of the waste solvent (by weight) can evaporate into the atmosphere.
2. Equipment used in solvent metal cleaning is maintained to minimize leaks and fugitive emissions.
3. Equipment used in solvent metal cleaning displays a conspicuous summary of proper operating procedures consistent with minimizing emissions of volatile organic compounds.



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4. Equipment covers are closed when the solvent metal cleaning unit is not in service.
5. A record of solvent consumption shall be maintained for each year and made available to the commissioner or his representative upon request.

Condition 17: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 17.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00001 Emission Point: F078A

Emission Unit: A-00001 Emission Point: F078B

Emission Unit: A-00001 Emission Point: FC01A

Emission Unit: A-00001 Emission Point: FC01B

Emission Unit: A-00001 Emission Point: FC01C

Emission Unit: A-00001 Emission Point: FC01D

Emission Unit: A-00001 Emission Point: FC01E

Emission Unit: B-00001
Process: OIL Emission Source: B0001

Emission Unit: B-00001
Process: OIL Emission Source: B0002

Emission Unit: B-00001
Process: OIL Emission Source: B0003

Emission Unit: B-00001
Process: OIL Emission Source: B0004

Emission Unit: B-00001 Emission Point: 00001
Process: GAS

Emission Unit: B-00001 Emission Point: 00002
Process: GAS

Item 17.2:

Compliance Certification shall include the following monitoring:

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Facility DEC ID: 6405800003



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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test method 9 in appendix A of 40 CFR 60. Testing shall be conducted upon request from the Department.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Method 9

Monitoring Frequency: AS REQUIRED - SEE MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 18: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 227-2.4(g)(3)

Item 18.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00001 Emission Point: F078A

Emission Unit: A-00001 Emission Point: F078B

Emission Unit: A-00001 Emission Point: FC01A
Process: HT1

Emission Unit: A-00001 Emission Point: FC01B
Process: HT1

Emission Unit: A-00001 Emission Point: FC01C
Process: HT1

Emission Unit: A-00001 Emission Point: FC01D
Process: HT1

Emission Unit: A-00001 Emission Point: FC01E
Process: HT1

Regulated Contaminant(s):



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Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003

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

Item 18.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A RACT analysis is not necessary for sources that emit less than 3 lbs per hour of oxides of nitrogen. Testing shall be conducted upon request from the department to ensure compliance.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 19: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 257-8.

Item 19.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 068188-85-2 FLUORIDES

Item 19.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Standards. a) Total Fluorides, part per million (ppm), dry weight basis (as F) in and on forage for consumption for grazing ruminants. Average concentration shall be less than the following in all levels:

(1) For growing season (not to exceed six consecutive months)-40 ppm

(2) For any 60 day period- 60 ppm

(3) For any 30 day period- 80

ppm

Measurement. (a) Total Fluorides in and on forage is determined by fusion of a representative sample by the Schoniger flash oxygen combustion method and analysis by specific ion electrode or other methods acceptable to the commissioner.



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Facility DEC ID: 6405800003

Alcoa shall continue Fluoride testing and reporting in accordance with the "Work/Quality Assurance Project Plan-Sampling and Analysis for Fluoride in Vegetation" dated May 5, 1999.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 20: Incorporation by Reference
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.841, Subpart LL

Item 20.1:

(a) The following material is incorporated by reference in the corresponding sections noted. This incorporation by reference was approved by the Director of the Federal Register on October 7, 1997, in accordance with 5 U.S.C. 552(a) and 1 CFR Part 51. These materials are incorporated as they exist on the date of approval, and notice of any change in the materials will be published in the Federal Register. Revisions to "Industrial Ventilation: A Manual of Recommended Practice" (22nd ed.) are applicable only after publication of a document in the Federal Register to amend subpart LL to require use of the new information.

(1) Chapter 3, "Local Exhaust Hoods" and Chapter 5, "Exhaust System Design Procedure" of "Industrial Ventilation: A Manual of Recommended Practice," American Conference of Governmental Industrial Hygienists, 22nd edition, 1995, IBR approved for 40 CFR Part 63.843(b) and 40 CFR Part 63.844(b); and

(2) ASTM D 2986-95A, Standard Practice for Evaluation of Air Assay Media by the Monodisperse DOP (Diocetyl Phthalate) Smoke Test, IBR approved for section 7.1.1 of Method 315 in appendix A to 40 CFR Part 63.

(b) The materials incorporated by reference are available for inspection at the Office of the Federal Register, 800 North Capitol Street NW., Suite 700, 7th Floor, Washington, DC, and at the Air and Radiation Docket Center, U.S. EPA, 401 M Street, SW., Washington, DC. The materials also are available for purchase from one of the following addresses:

(1) Customer Service Department, American Conference of Governmental Industrial Hygienists (ACGIH), 1330 Kemper Meadow Drive, Cincinnati, Ohio 45240, telephone number (513) 742-2020; or

(2) American Society for Testing and Materials, 100 Bar Harbour Drive, West Conshohocken, Pennsylvania 19428, telephone number (610) 832-9500.



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Condition 21: Compliance Provisions - Test Plan
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.847(b), Subpart LL

Item 21.1:

The owner or operator shall prepare a site-specific test plan prior to the initial performance test according to the requirements of 40 CFR Part 63.7(c). The test plan must include procedures for conducting the initial performance test and for subsequent performance tests required in 40 CFR Part 63.848 for emission monitoring. In addition to the information required by 40 CFR Part 63.7, the test plan shall include:

- (1) Procedures to ensure a minimum of three runs are performed annually for the primary control system for each source;
- (2) For a source with a single control device exhausted through multiple stacks, procedures to ensure that at least three runs are performed annually by a representative sample of the stacks satisfactory to the applicable regulatory authority;
- (3) For multiple control devices on a single source, procedures to ensure that at least one run is performed annually for each control device by a representative sample of the stacks satisfactory to the applicable regulatory authority;
- (4) Procedures for sampling single stacks associated with multiple anode bake furnaces;
- (8) Procedures for establishing the frequency of testing to ensure that at least one run is performed before the 15th of the month, at least one run is performed after the 15th of the month, and that there are at least 6 days between two of the runs during the month, or that secondary emissions are measured according to an alternate schedule satisfactory to the applicable regulatory authority.

Condition 22: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848, Subpart LL

Item 22.1:

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

Emission Unit: S-00001
Process: POT

Emission Unit: S-00002
Process: BAK

Regulated Contaminant(s):



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Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003

CAS No: 0NY505-00-0 40 CFR 63 SUBPART LL - POM
CAS No: 068188-85-2 FLUORIDES

Item 22.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall install, operate, calibrate, and maintain a continuous parameter monitoring system for each emission control device. The owner/operator shall submit for approval by the New York State DEC a description of the parameter(s) to be monitored, the operating limits, and the monitoring frequency to ensure that the control device is being properly operated and maintained. An explanation of the criteria used for selection of the parameter(s), the operating limits, and the monitoring frequency, including how these relate to emission control also shall be submitted to the New York State DEC.

Reference Test Method: EPA 13A or ALT, 315

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

**Condition 23: Reference test methods for TF and POM emissions
Effective between the dates of 09/01/2002 and 09/01/2007**

Applicable Federal Requirement: 40CFR 63.849(a), Subpart LL

Item 23.1:

The owner/operator shall use the following reference methods to determine compliance with the applicable emission limits for TF and POM emissions:

- 1) Method 1 in Appendix A to part 60 for sample and velocity traverses;
- 2) Method 2 in Appendix A to part 60 for velocity and volumetric flow rate;
- 3) Method 3 in Appendix A to part 60 for gas analysis;
- 4) Method 13A or 13B in Appendix A to part 60, or an approved alternative, for the concentration of TF where stack or duct emission are sampled;
- 5) Method 13A or 13B and Method 14 or 14A in Appendix A to part 60 or an approved alternative method for the concentration of TF where emissions are sampled from roof monitors not employing wet roof scrubbers;
- 6) Method 315 in Appendix A to part 63 or an approved alternative method for the concentration of POM where stack or duct emissions are sampled; and



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7) Method 315 in Appendix A to part 63 and Method 14 in Appendix A to part 60 or an approved alternative method for the concentration of POM where emissions are sampled from roof monitors not employing wet roof scrubbers.

**Condition 24: Alternative test methods for TF or POM emissions
Effective between the dates of 09/01/2002 and 09/01/2007**

Applicable Federal Requirement: 40CFR 63.849(e), Subpart LL

Item 24.1:

The owner/operator may use an alternative test method for TF or POM emissions providing:

- 1) The owner/operator has already demonstrated the equivalency of the alternative method for a specific plant and has received previous approval from the Administrator or the New York State DEC for TF or POM measurements using the alternative methods; or
- 2) The owner/operator demonstrates to the satisfaction of the New York State DEC that the results from the alternative method meet the criteria specified in §§63.848(d)(1) and (d)(3) through (d)(6). The results from the alternative method shall be based on simultaneous sampling using the alternative method and the following reference methods:

For TF, Methods 13 and 14 or Method 14A in appendix A to part 60, or for POM, Method 315 in appendix A to part 63 and Method 14 in appendix A to part 60.

**Condition 25: Accidental release provisions.
Effective between the dates of 09/01/2002 and 09/01/2007**

Applicable Federal Requirement: 40CFR 68.

Item 25.1:

If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, the following requirements will apply:

- a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;
- b) The owner or operator shall submit (if not previously submitted) one of the following if such quantities are present at the time of permit issuance:
 - 1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,
 - 2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

USEPA Region 2
Air Compliance Branch
290 Broadway



New York State Department of Environmental Conservation

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Facility DEC ID: 6405800003

New York, NY 10007-1866

ATTN: Accidental Release Program contact

Condition 26: Recycling and Emissions Reduction
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 82, Subpart F

Item 26.1:

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

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

Condition 27: Emission Point Definition By Emission Unit
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 201-6.

Item 27.1:

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

Emission Unit: A-00001

Emission Point: F0014

Height (ft.): 41 Diameter (in.): 25
NYTMN (km.): 4977. NYTME (km.): 508.9 Building: 140

Emission Point: F0015

Height (ft.): 48 Diameter (in.): 25
NYTMN (km.): 4977. NYTME (km.): 508.9 Building: 140

Emission Point: F001A

Height (ft.): 50 Diameter (in.): 24
NYTMN (km.): 4977. NYTME (km.): 508.9 Building: 131

Emission Point: F001B

rd Height (ft.): 50 Diameter (in.): 24
NYTMN (km.): 4977. NYTME (km.): 508.9 Building: 131

Emission Point: F001C

Height (ft.): 50 Diameter (in.): 24
NYTMN (km.): 4977. NYTME (km.): 508.9 Building: 131

Emission Point: F001D

Height (ft.): 50 Diameter (in.): 24
NYTMN (km.): 4977. NYTME (km.): 508.9 Building: 131



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Emission Point: F001E			
Height (ft.): 50	Diameter (in.): 24		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 131	
Emission Point: F002A			
Height (ft.): 47	Diameter (in.): 21		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 140	
Emission Point: F002B			
Height (ft.): 47	Diameter (in.): 21		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 140	
Emission Point: F0075			
Height (ft.): 47	Diameter (in.): 12		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 131	
Emission Point: F0076			
Height (ft.): 46	Diameter (in.): 21		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 131	
Emission Point: F074A			
Height (ft.): 45	Diameter (in.): 12		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 131	
Emission Point: F074B			
Height (ft.): 45	Diameter (in.): 12		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 131	
Emission Point: F078A			
Height (ft.): 42	Diameter (in.): 24		
		Building: 140	
Emission Point: F078B			
Height (ft.): 42	Diameter (in.): 24		
		Building: 140	
Emission Point: FC01A			
Height (ft.): 50	Diameter (in.): 10		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 131	
Emission Point: FC01B			
Height (ft.): 50	Diameter (in.): 24		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 131	
Emission Point: FC01C			
Height (ft.): 50	Diameter (in.): 24		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 131	



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Facility DEC ID: 6405800003

Emission Point: FC01D			
Height (ft.): 50	Diameter (in.): 24		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 131	
Emission Point: FC01E			
Height (ft.): 50	Diameter (in.): 10		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 131	
Emission Point: I0014			
Height (ft.): 52	Diameter (in.): 42		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 234	
Emission Point: I0026			
Height (ft.): 62	Diameter (in.): 54		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 222	
Emission Point: I0027			
Height (ft.): 62	Diameter (in.): 54		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 222	
Emission Point: I0043			
Height (ft.): 52	Diameter (in.): 54		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 222	
Emission Point: I0046			
Height (ft.): 62	Diameter (in.): 54		
		Building: 222	
Emission Point:n0I015A			
Height (ft.): 52	Diameter (in.): 42		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 234	
Emission Point: I015B			
Height (ft.): 52	Diameter (in.): 42		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 234	

Item 27.2:

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

Emission Unit: A-00002			
Emission Point: F0031			
Height (ft.): 20	Diameter (in.): 24		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 131	
Emission Point: F0062			
Height (ft.): 10	Length (in.): 12	Width (in.): 12	



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NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 140
Emission Point: F0063		
Height (ft.): 8	Diameter (in.): 7	
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 131
Emission Point: F0064		
Height (ft.): 30	Diameter (in.): 12	
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 131
Emission Point: F0065		
Height (ft.): 7	Diameter (in.): 12	
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 131
Emission Point: F0067		
Height (ft.): 26	Diameter (in.): 8	
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 131

Item 27.3:

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

Emission Unit: B-00001		
Emission Point: 00001		
Height (ft.): 60	Diameter (in.): 96	
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 216A
Emission Point: 00002		
Height (ft.): 60	Diameter (in.): 96	
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 216A

Item 27.4:

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

Emission Unit: C-00001		
Emission Point: I0029		
Height (ft.): 52	Diameter (in.): 36	
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 221
Emission Point: I0030		
Height (ft.): 73	Diameter (in.): 42	
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 221

Item 27.5:

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

Emission Unit: C-00002



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Emission Point: I0044
Height (ft.): 74 Diameter (in.): 36
NYTMN (km.): 4977. NYTME (km.): 508.9 Building: 221

Emission Point: I0045
Height (ft.): 74 Diameter (in.): 44
NYTMN (km.): 4977. NYTME (km.): 508.9 Building: 221

Item 27.6:

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

Emission Unit: D-00001

Emission Point: F0042
Height (ft.): 57 Diameter (in.): 19
NYTMN (km.): 4977. NYTME (km.): 508.9 Building: 140

Emission Point: I0016
Height (ft.): 52 Diameter (in.): 42
NYTMN (km.): 4977. NYTME (km.): 508.9 Building: 220

Emission Point: I0042
Height (ft.): 50 Diameter (in.): 22
NYTMN (km.): 4977. NYTME (km.): 508.9 Building: 222

Item 27.7:

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

Emission Unit: M-00001

Emission Point: I001A
Height (ft.): 67 Diameter (in.): 32
Building: 221

Emission Point: I001B
Height (ft.): 67 Diameter (in.): 32
Building: 221

Emission Point: I001C
Height (ft.): 68 Diameter (in.): 20
Building: 221

Emission Point: I001D
Height (ft.): 68 Diameter (in.): 20
Building: 221

Emission Point: I0034



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Height (ft.): 74	Diameter (in.): 32	Building: 221
Emission Point: I0035 Height (ft.): 74	Diameter (in.): 32	Building: 221
Emission Point: I003A Height (ft.): 67	Diameter (in.): 33	Building: 221
Emission Point: I003C Height (ft.): 67	Diameter (in.): 79	Building: 221
Emission Point: I024C Height (ft.): 74	Diameter (in.): 50	Building: 221
Emission Point: I024D Height (ft.): 74	Diameter (in.): 50	Building: 221
Emission Point: I024F Height (ft.): 82	Diameter (in.): 79	Building: 221

Item 27.8:

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

Emission Unit: M-00002		
Emission Point: 10036 Height (ft.): 52 NYTMN (km.): 4977.	Diameter (in.): 9 NYTME (km.): 508.9	Building: 221
Emission Point: 1024E Height (ft.): 46 NYTMN (km.): 4977.	Diameter (in.): 8 NYTME (km.): 508.9	Building: 221
Emission Point: I001E Height (ft.): 67 NYTMN (km.): 4977.	Diameter (in.): 42 NYTME (km.): 508.9	Building: 221
Emission Point: I003E Height (ft.): 48 NYTMN (km.): 4977.	Diameter (in.): 8 NYTME (km.): 508.9	Building: 221



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Facility DEC ID: 6405800003

Item 27.9:

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

Emission Unit: S-00001

Emission Point: SA398

Height (ft.): 78

Diameter (in.): 48

NYTMN (km.): 4977.

NYTME (km.): 508.9

Building: 401

Item 27.10:

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

Emission Unit: S-00002

Emission Point: S0078

Height (ft.): 105

Diameter (in.): 84

NYTMN (km.): 4977.

NYTME (km.): 508.9

Building: 351

Emission Point: SS078

Height (ft.): 105

Diameter (in.): 84

NYTMN (km.): 4977.

NYTME (km.): 508.9

Building: 351

Item 27.11:

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

Emission Unit: S-00003

Emission Point: S0100

Height (ft.): 111

Diameter (in.): 42

NYTMN (km.): 4977.

NYTME (km.): 508.9

Building: 354C

Item 27.12:

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

Emission Unit: S-00004

Emission Point: S0015

Height (ft.): 19

Length (in.): 12

Width (in.): 12

NYTMN (km.): 4977.

NYTME (km.): 508.9

Building: 332

Emission Point: S0016

Height (ft.): 23

Length (in.): 12

Width (in.): 12

NYTMN (km.): 4977.

NYTME (km.): 508.9

Building: 332

Emission Point: S0017

Height (ft.): 62

Diameter (in.): 25

NYTMN (km.): 4977.

NYTME (km.): 508.9

Building: 332



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Emission Point: S0038			
Height (ft.): 15	Diameter (in.): 33		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 354B	
Emission Point: S0041			
Height (ft.): 42	Diameter (in.): 15		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 441	
Emission Point: S0043			
Height (ft.): 91	Diameter (in.): 15		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 441C	
Emission Point: S0046			
Height (ft.): 79	Diameter (in.): 10		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 446A	
Emission Point: S0047			
Height (ft.): 79	Diameter (in.): 10		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 446B	
Emission Point: S0048			
Height (ft.): 79	Diameter (in.): 10		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 446C	
Emission Point: S0049			
Height (ft.): 106	Diameter (in.): 15		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 354C	
Emission Point: S0050			
Height (ft.): 106	Diameter (in.): 15		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 354C	
Emission Point: S0051			
Height (ft.): 106	Diameter (in.): 13		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 354C	
Emission Point: S0052			
Height (ft.): 106	Diameter (in.): 21		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 354C	
Emission Point: S0053			
Height (ft.): 106	Diameter (in.): 13		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 354C	
Emission Point: S0060			
Height (ft.): 105	Diameter (in.): 16		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 354C	



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Emission Point: S0061			
Height (ft.): 105	Diameter (in.): 9		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 354C	
Emission Point: S0083			
Height (ft.): 5	Diameter (in.): 21		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 344	
Emission Point: S0086			
Height (ft.): 22	Diameter (in.): 15		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 440A	
Emission Point: S0090			
Height (ft.): 4	Length (in.): 13	Width (in.): 11	
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 378	
Emission Point: S0092			
Height (ft.): 63	Length (in.): 22	Width (in.): 19	
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 440E	
Emission Point: S0093			
Height (ft.): 166	Length (in.): 18	Width (in.): 24	
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 440E	
Emission Point: S0095			
Height (ft.): 28	Length (in.): 23	Width (in.): 19	
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 351	
Emission Point: S0102			
Height (ft.): 27	Diameter (in.): 52		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 469	
Emission Point: S023B			
Height (ft.): 35	Diameter (in.): 52		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 380	
Emission Point: S23AA			
Height (ft.): 40	Diameter (in.): 75		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 435	
Emission Point: S23AC			
Height (ft.): 17	Diameter (in.): 27		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 435	

Item 27.13:

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

Emission Unit: S-00005



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Emission Point: S0073			
Height (ft.): 37	Diameter (in.): 8		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 352B	
Emission Point: S0077			
Height (ft.): 37	Diameter (in.): 8		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 352B	
Emission Point: S0088			
Height (ft.): 28	Diameter (in.): 12		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 352F	
Emission Point: S0089			
Height (ft.): 28	Diameter (in.): 12		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 352F	
Emission Point: S073A			
Height (ft.): 37	Diameter (in.): 8		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 352B	

Item 27.14:

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

Emission Unit: W-00001			
Emission Point: F0068			
Height (ft.): 40	Diameter (in.): 3		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 79C	
Emission Point: F0069			
Height (ft.): 41	Diameter (in.): 14		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 79C	
Emission Point: F0070			
Height (ft.): 41	Diameter (in.): 12		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 79C	
Emission Point: F0071			
Height (ft.): 41	Diameter (in.): 10		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 79C	

Condition 28: Process Definition By Emission Unit
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 201-6.

Item 28.1:

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

Emission Unit: A-00001

Process: EPH

Source Classification Code: 2-02-002-02

Process Description:

TWO (2) 6500 TON PRESS PRE-HEATS AND ONE
(1) 5300 TON PRESS PRE-HEAT FURNACE. EACH
USES MULTIPLE DIRECT FIRE NATURAL GAS
BURNERS.

Emission Source/Control: AI014 - Process

Emission Source/Control: AI15A - Process

Emission Source/Control: AI15B - Process

Item 28.2:

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

Emission Unit: A-00001

Process: HMO

Source Classification Code: 2-02-002-02

Process Description:

FOUR (4) HOMOGENIZING HEAT TREAT FURNACES.
EACH USES MULTIPLE DIRECT FIRE NATURAL GAS
BURNERS. CHEMICAL ADDITIVE PREVENTS
OXIDATION OF SURFACE OF METAL AND PRODUCES
INCIDENTAL HYDROGEN FLUORIDE EMISSIONS AS A
BY-PRODUCT.

Emission Source/Control: AI026 - Process

Emission Source/Control: AI027 - Process

Emission Source/Control: AI043 - Process

Emission Source/Control: AI046 - Process

Design Capacity: 30 million Btu per hour

Item 28.3:

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

Emission Unit: A-00001

Process: HT1

Source Classification Code: 2-02-002-02

Process Description:

#30, 31, 32, 33, 34, 35, 36, 37, 38 HEAT
TREAT FURNACES PROCESS EXHAUST. EACH
FURNACE EXHAUSTS THROUGH THEIR OWN EMISSION
POINT. #32-36 FURNACES ARE INDIRECTLY
FIRED AND HAVE SEPARATE COMBUSTION

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EXHAUSTS. RESIDUAL OIL ON ALUMINUM
PRODUCES SLIGHT VOC EMISSION. CHEMICAL
ADDITIVE PREVENTS OXIDATION OF SURFACE OF
METAL AND PRODUCES INCIDENTAL HYDROGEN
FLUORIDE EMISSION AS A BY-PRODUCT.

Emission Source/Control: AFC1A - Combustion

Emission Source/Control: AFC1B - Combustion

Emission Source/Control: AFC1C - Combustion

Emission Source/Control: AFC1D - Combustion

Emission Source/Control: AFC1E - Combustion

Emission Source/Control: AF01A - Process

Emission Source/Control: AF01B - Process

Emission Source/Control: AF01C - Process

Emission Source/Control: AF01D - Process

Emission Source/Control: AF01E - Process

Emission Source/Control: AF075 - Process

Emission Source/Control: AF076 - Process

Emission Source/Control: AF74A - Process

Emission Source/Control: AF74B - Process

Item 28.4:

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

Emission Unit: A-00001

Process: HT2

Source Classification Code: 2-02-002-02

Process Description:

HEAT TREAT FURNACES #13, #14 AND #15 ARE
INDIRECT FIRED NATURAL GAS FURNACES WHERE
THE PRODUCTS OF COMBUSTION EXHAUST THROUGH
EMISSION POINT (EP) F078A. THE FURNACE IS
EXHAUSTED THROUGH EP F0014. HEAT TREAT
FURNACES #16, #17 AND #18 HAVE A SIMILAR
ARRANGEMENT WHERE THE PRODUCTS OF
COMBUSTION EXHAUST THROUGH EP F078B AND THE

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FURNACE EXHAUST THROUGH EP F0015. FURNACE PROCESS EMISSIONS CONSIST OF RESIDUAL DRAWING LUBE FROM THE BARS WHICH ARE COMBUSTED AND VAPORIZED DURING THE BEGINNING OF THE HEAT TREAT PROCESS. CHEMICAL ADDITIVES PREVENT THE OXIDATION OF SURFACE METAL. THIS ADDITIVE PRODUCES INCIDENTAL HYDROGEN FLUORIDE AS A BY-PRODUCT. NUMBER 23 AND 24 AGE ANNEAL FURNACES ARE EACH EXHAUSTED THROUGH THEIR OWN EMISSION POINTS. THESE FURNACES ARE DIRECT FIRED, NATURAL GAS AND RESIDUAL OIL ON THE ALUMINUM PRODUCES SLIGHT VOC EMISSIONS.

Emission Source/Control: AF014 - Process

Emission Source/Control: AF015 - Process

Emission Source/Control: AF02A - Process

Emission Source/Control: AF02B - Process

Emission Source/Control: AF78A - Process

Emission Source/Control: AF78B - Process

Item 28.5:

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

Emission Unit: A-00002

Process: FAB

Source Classification Code: 2-02-002-02

Process Description:

Small crucible located in the Fabricating Shop used occasionally to melt lead, lead bismuth, zinc or tin babbitt. Crucible heated by natural gas fired burner.

Emission Source/Control: AF062 - Process

Item 28.6:

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

Emission Unit: A-00002

Process: MRS

Source Classification Code: 2-02-002-02

Process Description:

THREE (3) SMALL NATURAL GAS OVENS AND TWO (2) MAINTENANCE PAINTING ROOMS USED IN MAINTENANCE SHOPS. THE BAKE OVEN AND DRYING



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OVEN ARE USED TO DRY PARTS WASHED WITH A WATER BASED SOLUTION, AND OCCASIONALLY TO CURE MOTOR COILS COATED WITH VARNISH.

Emission Source/Control: AF031 - Process

Emission Source/Control: AF063 - Process

Emission Source/Control: AF064 - Process

Emission Source/Control: AF065 - Process

Emission Source/Control: AF067 - Process

Item 28.7:

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 28.8:

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

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Item 28.9:

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

Emission Unit: C-00001

Process: CD1

Source Classification Code: 3-04-001-09

Process Description:

CHIP DRYER #1 DRIES ALUMINUM MACHINING
CHIPS WITH HEATED AIR.

Emission Source/Control: C029A - Control

Control Type: SINGLE CYCLONE

Emission Source/Control: C029B - Control

Control Type: DIRECT FLAME AFTERBURNER

Emission Source/Control: C0029 - Process

Item 28.10:

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

Emission Unit: C-00001

Process: CM1

Source Classification Code: 3-04-001-03

Process Description:

CHIP MELTER #1 MELTS CLEAN ALUMINUM
MACHINING CHIPS.

Emission Source/Control: C0030 - Process

Item 28.11:

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

Emission Unit: C-00002

Process: CD2

Source Classification Code: 3-04-001-09

Process Description:

CHIP DRYER #2 DRIES ALUMINUM MACHINING
CHIPS HEATED WITH AIR.

Emission Source/Control: C044A - Control

Control Type: MULTIPLE CYCLONE W/O FLY ASH INJECTION

Emission Source/Control: C044B - Control

Control Type: THERMAL OXIDATION

Emission Source/Control: C0044 - Process

Item 28.12:

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



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Facility DEC ID: 6405800003

Emission Unit: C-00002

Process: CM2

Source Classification Code: 3-04-001-03

Process Description:

CHIP MELTER #2 MELTS CLEAN ALUMINUM
MACHINING CHIPS.

Emission Source/Control: C0045 - Process

Item 28.13:

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

Emission Unit: D-00001

Process: ALB

Source Classification Code: 3-03-001-99

Process Description: ALUMINUM BURNISHER

Emission Source/Control: DFF42 - Control

Control Type: CENTRIFUGAL

Emission Source/Control: DF142 - Process

Item 28.14:

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

Emission Unit: D-00001

Process: CCT

Source Classification Code: 3-03-001-99

Process Description:

EMULSIFIED OIL AND WATER SYSTEM FOR THE
CONTINUOUS CASTER.

Emission Source/Control: DII42 - Process

Item 28.15:

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

Emission Unit: D-00001

Process: PRT

Source Classification Code: 3-04-001-99

Process Description:

FABRICATED ALUMINUM BARS PASS THROUGH AN
ENCLOSED SPRAY CHAMBER WHERE A CLEAR
PROTECTIVE COATING IS APPLIED TO THE BASE
METAL. THE COATING IS TRANSPARENT AND USES
THE UNDERCOAT ALUMINUM AS A REFLECTIVE
BASE. EMISSIONS PASS THROUGH A MIST
COLLECTOR AND VENT INSIDE THE BUILDING.

Emission Source/Control: DF073 - Process

Item 28.16:

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Facility DEC ID: 6405800003



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

Emission Unit: D-00001

Process: SKD

Source Classification Code: 3-04-001-07

Process Description:

SKIM AND DROSS AREA USED FOR PASSIVE
COOLING OF SKIM AND DROSS.

Emission Source/Control: DI016 - Control

Control Type: FABRIC FILTER

Emission Source/Control: DI116 - Process

Item 28.17:

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

Emission Unit: F-00001

Process: FB1

Source Classification Code: 3-03-001-05

Process Description:

FUGITIVES FROM THE BULL BLOCK. PROCESS
APPLIES HIGH BOILING POINT (GREATER THAN
300F) SOLVENT TO SLIGHTLY HOT METAL TO
ADHERE METAL TO BLOCK. VOC EMISSIONS ARE
INLCUDED ON THE ANNUAL EMISSIONS
STATEMENT.

Emission Source/Control: FFFB1 - Process

Item 28.18:

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

Emission Unit: F-00001

Process: FB2

Source Classification Code: 3-03-001-99

Process Description:

FUGITIVES FROM THE INK JET PRINTER.
METHYL ETHYL KETONE (MEK) USED AS A CARRIER
SOLVENT. MEK EMISSIONS ARE INCLUDED ON THE
ANNUAL EMISSIONS STATEMENT.

Emission Source/Control: FFFB2 - Process

Item 28.19:

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

Emission Unit: F-00001

Process: FB3

Source Classification Code: 2-88-888-01

Process Description:

FUGITIVES FROM WAX DIPPING AND AIR DRYING

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COILS. WAX IS MIXED WITH WATER AND HEATED, THUS DOES NOT HAVE A HIGH, VOC CONTENT. VOC EMISSIONS INCLUDED ON ANNUAL EMISSIONS STATEMENT.

Emission Source/Control: FFFB3 - Process

Item 28.20:

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

Emission Unit: F-00001

Process: FC1

Source Classification Code: 2-88-888-01

Process Description:

FUGITIVES FROM THE ROD OILER ASSOCIATED WITH THE CONTINUOUS CASTER. VOC EMISSIONS WILL BE INCLUDED ON THE ANNUAL EMISSIONS STATEMENT.

Emission Source/Control: FIFC1 - Process

Item 28.21:

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

Emission Unit: F-00001

Process: FC2

Source Classification Code: 2-88-888-01

Process Description:

FUGITIVES FROM THE AUTOMATIC LATHE. VOC EMISSIONS WILL BE INCLUDED ON THE ANNUAL EMISSIONS STATEMENT.

Emission Source/Control: FIFC2 - Process

Item 28.22:

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

Emission Unit: F-00001

Process: FC3

Source Classification Code: 3-03-001-99

Process Description:

TWO (2) MOLD SHOP BAKE OVENS. SMALL OVEN IS USED TO VOLATILIZE OIL IMPREGNATED IN GRAPHITE RINGS. EMISSIONS VENT INTO THE MILL AND ESTIMATED TO BE INSIGNIFICANT.

Emission Source/Control: FIFC3 - Process

Item 28.23:

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



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Emission Unit: M-00001

Process: MHA

Source Classification Code: 3-04-001-99

Process Description:

MOLTEN ALUMINUM MELTING AND HOLDING
FURNACES. CURRENTLY, THESE FURNACES ARE
NOT PERMITTED TO USE SALT FLUXES.

Emission Source/Control: M001A - Process20

Emission Source/Control: M001B - Process

Emission Source/Control: M024C - Process

Emission Source/Control: M024D - Process

Emission Source/Control: M024F - Process

Item 28.24:

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

Emission Unit: M-00001

Process: MHS

Source Classification Code: 3-04-001-99

Process Description:

MOLTEN ALUMINUM MELTING AND HOLDING
FURNACES WHICH ARE PERMITTED TO USE SALT
FLUXES AT THE TIME OF TITLE V APPLICATION
SUBMISSION. ALL FURNACES ARE
REVERBERATORY, CENTER CHARGED. NO GAS
FLUXING IS DONE IN ANY FURNACE.

Emission Source/Control: M001C - Process

Emission Source/Control: M001D - Process

Emission Source/Control: M0034 - Process

Emission Source/Control: M0035 - Process

Emission Source/Control: M003A - Process

Emission Source/Control: M003C - Process

Item 28.25:

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

Emission Unit: M-00002

Process: FBA

Source Classification Code: 3-04-001-04

Process Description:

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



IN-LINE FILTERBOX FLUXING UNITS USE A MIXTURE OF ARGON AND CHLORINE GAS TO PURIFY MOULTEN ALUMINUM AS IT IS BEING CAST INTO INGOTS OR ROD. TYPICALLY THERE IS ONE FILTERBOX PER FURNACE, AND MULTIPLE FURNACES/FILTERBOXES SERVE AS A SINGLE CASTING COMPLEX. WITHIN A CASTING COMPLEX. THESE FILTERBOXES CAN BE EXHAUSTED TOGETHER OR INDIVIDUALLY, HOWEVER, ONLY ONE FILTERBOX IS FLUXING AT ANY TIME SINCE THERE IS ONLY ONE CASTING APPARATUS PER COMPLEX. THUS, ONLY ONE FILTERBOX EMISSION SOURCE AND POINT REPRESENTS ALL FILTERBOXES IN A CASTING COMPLEX.

Emission Source/Control: M001E - Process

Emission Source/Control: M0036 - Process

Emission Source/Control: M003E - Process

Emission Source/Control: M024E - Process

Item 28.26:

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

Emission Unit: P-00001

Process: PWS

Source Classification Code: 4-01-003-35

Process Description:

This process consists of all the cold cleaning parts washers.

Emission Source/Control: PARTS - Process

Item 28.27:

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

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



Emission Source/Control: SS198 - Process

Item 28.28:

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 AND ASSOCIATED
ALUMINA INJECTION DRY SCRUBBER.

Emission Source/Control: SS78S - Control

Control Type: SCRUBBER - DRY ALUMINA INJECTION

Emission Source/Control: SS078 - Process

Item 28.29:

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

Emission Unit: S-00003

Process: GMS

Source Classification Code: 3-03-003-99

Process Description:

PASTE PRODUCTION PLANT AND ASSOCIATED COKE
INJECTION SCRUBBER.

Emission Source/Control: SS100 - Control

Control Type: SCRUBBER - DRY COKE INJECTION

Emission Source/Control: SS099 - Process

Item 28.30:

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

Emission Unit: S-00004

Process: M01

Source Classification Code: 3-03-003-12

Process Description:

BUILDING 332 DUST COLLECTION EQUIPMENT
INCLUDES A STUB HOLE CLEANER WHICH USES AIR
TO BLOW COKE DUST OUT OF STUB HOLES.
PROCESS M01 ALSO INCLUDES TWO SMALL
INDUCTION FURNACES USED FOR MELTING IRON,
AND ANTHRACITE COAL HANDLING AND STORAGE.

Emission Source/Control: SS015 - Control

Control Type: FABRIC FILTER

Emission Source/Control: SS016 - Control

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



Control Type: FABRIC FILTER

Emission Source/Control: SS017 - Control
Control Type: FABRIC FILTER

Emission Source/Control: SS415 - Process

Item 28.31:

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

Emission Unit: S-00004

Process: M02

Source Classification Code: 3-09-005-00

Process Description:

ELECTRIC WELDER USED TO WELD ALUMINUM,
COPPER, AND STEEL TOGETHER. WELD IS
PRODUCED UNDER HIGH CURRENT AND HYDRAULIC
PRESSURE.

Emission Source/Control: SS083 - Control
Control Type: FABRIC FILTER

Emission Source/Control: SS483 - Process

Item 28.32:

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

Emission Unit: S-00004

Process: M03

Source Classification Code: 3-03-003-12

Process Description: PACKED COKE DRILLED OUT OF ANODE STUB HOLES.

Emission Source/Control: SS095 - Control
Control Type: FABRIC FILTER

Emission Source/Control: SS495 - Process

Item 28.33:

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

Emission Unit: S-00004

Process: M04

Source Classification Code: 3-03-001-04

Process Description: DRY SCRUBBER ALUMINA LOADING AND UNLOADING AREA.

Emission Source/Control: SS090 - Control
Control Type: FABRIC FILTER

Emission Source/Control: SS490 - Process

Item 28.34:

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



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

Emission Unit: S-00004
Process: M05 Source Classification Code: 3-03-001-05
Process Description: ROUGH CLEANING OF SPENT ANODES.

Emission Source/Control: S23AB - Control
Control Type: FABRIC FILTER

Emission Source/Control: 423AB - Process

Item 28.35:

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

Emission Unit: S-00004
Process: M06 Source Classification Code: 3-04-022-10
Process Description:
BATH HANDLING, CRUSHING AND CRUCIBLE
DIGGING OPERATIONS.

Emission Source/Control: S23AA - Control
Control Type: FABRIC FILTER

Emission Source/Control: S23AC - Control
Control Type: FABRIC FILTER

Emission Source/Control: 423AA - Process

Item 28.36:

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

Emission Unit: S-00004
Process: M07 Source Classification Code: 3-03-001-04
Process Description:
TRANSFER POINT IN BUILDING 441 FOR TWO
ALUMINA BELT CONVEYORS.

Emission Source/Control: SS041 - Control
Control Type: FABRIC FILTER

Emission Source/Control: SS441 - Process

Item 28.37:

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

Emission Unit: S-00004
Process: M08 Source Classification Code: 3-03-003-12
Process Description: BUTT CRUSHING.

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



Emission Source/Control: SS038 - Control
Control Type: FABRIC FILTER

Emission Source/Control: SS438 - Process

Item 28.38:

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

Emission Unit: S-00004

Process: M09

Source Classification Code: 3-03-001-05

Process Description:

ANODE BUTT STORAGE, STORAGE FILLING,
AGGREGATE BLENDING, COKE CRUSHING, STORAGE
DISCHARGE, BALL MILL CLASSIFYING, AND
INTERMEDIATE CLASSIFYING.

Emission Source/Control: SS049 - Control
Control Type: FABRIC FILTER

Emission Source/Control: SS050 - Control
Control Type: FABRIC FILTER

Emission Source/Control: SS051 - Control
Control Type: FABRIC FILTER

Emission Source/Control: SS052 - Control
Control Type: FABRIC FILTER

Emission Source/Control: SS053 - Control
Control Type: FABRIC FILTER

Emission Source/Control: SS060 - Control
Control Type: FABRIC FILTER

Emission Source/Control: SS061 - Control
Control Type: FABRIC FILTER

Emission Source/Control: SS449 - Process

Item 28.39:

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

Emission Unit: S-00004

Process: M10

Source Classification Code: 3-03-001-04

Process Description: STORAGE TANK 440A AND 440B FLUIDIZER FOR ALUMINA

Emission Source/Control: SS086 - Control

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



Control Type: FABRIC FILTER

Emission Source/Control: SS486 - Process

Item 28.40:

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

Emission Unit: S-00004

Process: M11

Source Classification Code: 3-03-001-04

Process Description:

TRACK HOPPER DUST COLLECTOR FOR ALUMINA
UNLOADING AND ALUMINA AIRLIFT TOWER DUST
COLLECTOR.

Emission Source/Control: SS092 - Control

Control Type: FABRIC FILTER

Emission Source/Control: SS093 - Control

Control Type: FABRIC FILTER

Emission Source/Control: SS492 - Process

Item 28.41:

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

Emission Unit: S-00004

Process: M12

Source Classification Code: 3-03-001-04

Process Description:

TRANSFER POINT 441C SERVES ST441C AND THE
TRANSFER OF ALUMINA TO ST441B.

Emission Source/Control: SS043 - Control

Control Type: FABRIC FILTER

Emission Source/Control: SS443 - Process

Item 28.42:

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

Emission Unit: S-00004

Process: M13

Source Classification Code: 3-03-001-04

Process Description:

ALUMINA TRANSFER POINT 446A FROM REACTORS
TO STORAGE TANKS.

Emission Source/Control: SS046 - Control

Control Type: FABRIC FILTER

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



Emission Source/Control: SS446 - Process

Item 28.43:

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

Emission Unit: S-00004

Process: M14

Source Classification Code: 3-03-001-04

Process Description:

ALUMINA TRANSFER POINT 446B FROM REACTORS
TO STORAGE TANKS.

Emission Source/Control: SS047 - Control

Control Type: FABRIC FILTER

Emission Source/Control: SS447 - Process

Item 28.44:

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

Emission Unit: S-00004

Process: M15

Source Classification Code: 3-03-001-04

Process Description:

ALUMINA TRANSFER POINT 446C FROM REACTORS
TO STORAGE TANKS.

Emission Source/Control: SS048 - Control

Control Type: FABRIC FILTER

Emission Source/Control: SS448 - Process

Item 28.45:

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

Emission Unit: S-00004

Process: M16

Source Classification Code: 3-03-003-12

Process Description:

POT DIGGING AND SPENT POTLINING HANDLING
OPERATIONS CONTROLLED BY A FABRIC FILTER TO
LIMIT PARTICULATE EMISSIONS TO THE
ENVIRONMENT.

Emission Source/Control: SS102 - Control

Control Type: FABRIC FILTER

Emission Source/Control: SS402 - Process

Item 28.46:

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

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



Emission Unit: S-00005

Process: PST

Source Classification Code: 3-03-003-12

Process Description:

0 COAL TAR PITCH INCLUDES A SINGLE EMISSION POINT (EP) SERVING EACH OF TWO COAL TAR PITCH STORAGE TANKS, AND FUGITIVES INCLUDING BUT NOT LIMITED TO THOSE ASSOCIATED WITH THE PITCH RECIRCULATING PUMPS LOCATED IN BUILDING 352F.

Emission Source/Control: SS088 - Process

Emission Source/Control: SS089 - Process

Emission Source/Control: SSFP2 - Process

Item 28.47:

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

Emission Unit: S-00005

Process: PUN

Source Classification Code: 3-03-003-12

Process Description:

COAL TAR PITCH UNLOADING INCLUDES A SINGLE EMISSION POINT (EP) SERVING EACH OF TWO RAILCAR UNLOADING STATIONS, AND FUGITIVES INCLUDING BUT NOT LIMITED TO THOSE ASSOCIATED WITH THE PITCH UNLOADING PUMPS. SOME OF THESE FUGITIVES ARE EXHAUSTED THROUGH THE BUILDING VENTILATOR DESIGNATED AS EP S073A.

Emission Source/Control: SS073 - Process

Emission Source/Control: SS077 - Process

Emission Source/Control: SSFP1 - Process

Item 28.48:

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

Emission Unit: S-00006

Process: FA1

Source Classification Code: 3-03-003-12

Process Description:

TOTAL SUSPENDED SOLID (I.E. PARTICULATE) FUGUTIVES FROM COKE UNLOADING.

Emission Source/Control: SSFA1 - Process

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



Item 28.49:

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

Emission Unit: S-00006

Process: FA2

Source Classification Code: 3-03-003-12

Process Description:

TOTAL SUSPENDED SOLID (I.E. PARTICULATE)
FUGITIVES FROM COKE STORAGE AND HANDLING.

Emission Source/Control: SSFA2 - Process

Item 28.50:

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

Emission Unit: S-00006

Process: FA3

Source Classification Code: 3-03-001-05

Process Description:

TOTAL SUSPENDED SOLID (I.E. PARTICULATE)
FUGITIVES FROM CLAMSHELL BUCKET OPERATIONS
IN THE ANODE BAKING FURNACE ROOM.

Emission Source/Control: SSFA3 - Process

Item 28.51:

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

Emission Unit: S-00006

Process: FAC

Source Classification Code: 3-03-001-05

Process Description:

WHEN SPENT ANODES ARE PLACED IN BUILDING
380 AND 376 TO COOL, THERE ARE FUGITIVE
EMISSIONS FROM PASSIVE ANODE COOLING. SOME
HYDROGEN FLUORIDE IS EMITTED AS A RESULT OF
THE RESIDUAL BATH ON THE ANODES. EMISSIONS
ARE INCLUDED ON THE ANNUAL EMISSIONS
STATEMENT.

Emission Source/Control: SSFAC - Process

Item 28.52:

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

Emission Unit: S-00006

Process: FSM

Source Classification Code: 3-03-003-99

Process Description:

SEAM MIX OPERATIONS INCLUDE: LOW
TEMPERATURE PITCH UNLOADING AND STORAGE,



New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003

THE MIXING OF PITCH, ANTHRACITE COAL AND LIQUID METHYLNAPHTHALENE, AND THE PLACING OF FINAL PRODUCT IN BAGS. FUGITIVE EMISSIONS CONSIST OF POLYCYCLIC ORGANIC MATTER.

Emission Source/Control: SSFSM - Process

Item 28.53:

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

Emission Unit: W-00001

Process: OWT

Source Classification Code: 3-03-001-99

Process Description:

TREATMENT OF MISCELLANEOUS OILY WASTEWATERS USING A PRECOATE VACUUM FILTER. VACUUM EXHAUST IS THE EMISSION POINT.

Emission Source/Control: W0068 - Process

Item 28.54:

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

Emission Unit: W-00001

Process: WWT

Source Classification Code: 3-03-001-99

Process Description:

WASTEWATER TREATMENT CONSISTS OF CHEMICAL PRE-TREATMENT, AND BIOLOGICAL TREATMENT.

0

Emission Source/Control: W0069 - Control

Control Type: SODIUM-ALKALI SCRUBBING

Emission Source/Control: W0070 - Process

Emission Source/Control: W0071 - Process

Condition 29: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 29.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-00001

Emission Point: F078A

Process: HT2

Emission Source: AF78A

Item 29.2:

Compliance Certification shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test method 9 in Appendix A of 40 CFR 60.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA RM 9

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 30: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 30.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-00001 Emission Point: F078B
Process: HT2 Emission Source: AF78B

Item 30.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test method 9 in Appendix A of 40 CFR 60.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA RM 9

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 31: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007



New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003

Applicable Federal Requirement: 6NYCRR 212.4(a)

Item 31.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-00002

Process: FAB

Regulated Contaminant(s):

CAS No: 007439-92-1 LEAD

Item 31.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

As required by 6 NYCRR Part 212.4(a) lead has been issued an environmental rating of A. The emission rate potential of lead from this process source shall remain less than 1 pound per hour. Compliance testing shall be conducted upon request from the Department.

Upper Permit Limit: 1.0 pounds per hour

Reference Test Method: EPA RM 29

Monitoring Frequency: AS REQUIRED - SEE MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 32: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.4(a)

Item 32.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-00002

Process: MRS

Regulated Contaminant(s):

CAS No: 000050-00-0 FORMALDEHYDE

Item 32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



Monitoring Description:

As required by 6 NYCRR Part 212.4(a) formaldehyde has been issued an environmental rating of A. The emission rate potential of formaldehyde from the emission sources in this process shall remain less than 1 pound per hour. Compliance testing shall be conducted upon request from the Department.

Upper Permit Limit: 1.0 pounds per hour

Reference Test Method: EPA RM 18

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 33: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.4(a)

Item 33.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-00002

Process: MRS

Regulated Contaminant(s):

CAS No: 000067-56-1 METHYL ALCOHOL

Item 33.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

As required by 6 NYCRR Part 212.4(a) methanol has been issued an environmental rating of B. The emission rate potential of methanol from the emission sources in this process shall remain less than 10 pounds per hour. Compliance testing shall be done upon request from the Department.

Upper Permit Limit: 10 pounds per hour

Reference Test Method: EPA RM 18

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 34: Corrective Action
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 227-1.6(a)

Item 34.1:

This Condition applies to Emission Unit: B-00001

Item 34.2:

Any facility found in violation of the provisions of this Part shall not cause, permit, or allow the operation of the affected stationary combustion installation unless:

- (1) it is equipped with approved emission control equipment;
- (2) it is rehabilitated or upgraded in an approved manner; or
- (3) the fuel is changed to an acceptable type.

Condition 35: Corrective Action
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 227-1.6(b)

Item 35.1:

This Condition applies to Emission Unit: B-00001

Item 35.2:

The commissioner may seal such stationary combustion installation so as to prevent any operation if the conditions of paragraphs 6 NYCRR Part 227-1.6(a)(1)-(3) are not met within the time provided by the order of final determination issued in the case of the violation.

Condition 36: Corrective Action
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 227-1.6(c)

Item 36.1:

This Condition applies to Emission Unit: B-00001

Item 36.2:

No person shall cause, permit, or allow the operation of any affected stationary combustion installation sealed by the commissioner in accordance with 6 NYCRR Part 227-1.6.

Condition 37: Corrective Action
Effective between the dates of 09/01/2002 and 09/01/2007



New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003

Applicable Federal Requirement: 6NYCRR 227-1.6(d)

Item 37.1:

This Condition applies to Emission Unit: B-00001

Item 37.2:

No person except the commissioner or his representatives shall remove, tamper with or destroy any seal affixed to any stationary combustion installation in accordance with 6 NYCRR Part 227-1.6.

Condition 38: General Provisions

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 227-1.7

Item 38.1:

This Condition applies to Emission Unit: B-00001

Item 38.2:

(a) Emission data. Any person who owns or operates a stationary combustion installation described in 6 NYCRR Part 227-1 shall provide pertinent data concerning emissions when so requested by the commissioner.

(b) Test methods. Sampling, compositing and analysis of fuel samples shall be carried out in accordance with the most recent ASTM standard methods or equivalent methods acceptable to the commissioner.

Condition 39: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 227-2.4(b)(1)

Item 39.1:

The Compliance Certification activity will be performed for:

Emission Unit: B-00001

Regulated Contaminant(s):

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

Item 39.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

In order to comply with the NO_x RACT requirements of 6 NYCRR Part 227-2 each of the four boilers in this emission unit shall not exceed an emission rate of 0.30 pounds per million Btu per hour.

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 0.30 pounds per million Btus
Reference Test Method: EPA RM 7E
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 40: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 225-1.2(d)

Item 40.1:

The Compliance Certification activity will be performed for:

Emission Unit: B-00001
Process: OIL

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

Item 40.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:
Sulfur content of Number 6 fuel oil used in this process
shall not exceed 1.5% by weight.

Process Material: NUMBER 6 OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 1.5 percent by weight
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 41: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 225-1.7(c)

Item 41.1:

The Compliance Certification activity will be performed for:

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



Emission Unit: B-00001

Process: OIL

Item 41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Part 225-1.7(c) requires that measurements must be made daily of the rate of each fuel burned. The gross heat content and ash content of each fuel burned must be determined at least once each week. This information must be retained by the source owner for a period of five years.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 42: Records retention

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 225-1.7(d)

Item 42.1:

This Condition applies to Emission Unit: B-00001

Process: OIL

Item 42.2:

Data collected pursuant to 6 NYCRR Part 225-1.7 must be tabulated and summarized in a form acceptable to the commissioner, and must be retained for at least three years. The source owner must furnish such records and summaries upon request of the commissioner.

Condition 43: Sulfur in fuel exception reporting

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 225-1.7(e)

Item 43.1:

This Condition applies to Emission Unit: B-00001

Process: OIL

Item 43.2:

Source owners subject to 6 NYCRR Part 225-1.7 must submit a written report of the fuel sulfur content exceeding the applicable sulfur-in-fuel limitation, or of measured emissions exceeding the applicable equivalent emission rate, and the nature and cause of such excesses if known, for the calendar quarter.

Condition 44: Compliance Certification



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Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 225-1.8(a)

Item 44.1:

The Compliance Certification activity will be performed for:

Emission Unit: B-00001

Process: OIL

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

THE PERMITTEE SHALL RETAIN FUEL OIL SUPPLIER CERTIFICATIONS FOR EACH SHIPMENT OF OIL RECEIVED. SUCH CERTIFICATIONS SHALL CONTAIN, AS A MINIMUM: SUPPLIER NAME, DATE OF SHIPMENT, QUANTITY SHIPPED, OIL SULFUR CONTENT, AND THE METHOD USED TO DETERMINE THE SULFUR CONTENT. SUCH CERTIFICATIONS SHALL BE AVAILABLE FOR INSPECTION BY, OR SUBMITTAL TO, NYSDEC UPON REQUEST.

Monitoring Frequency: PER DELIVERY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 45: Sampling, compositing, and analysis of fuel samples

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 225-1.8(d)

Item 45.1:

This Condition applies to Emission Unit: B-00001

Process: OIL

Item 45.2:

All sampling, compositing, and analysis of fuel samples, taken to determine compliance with 6 NYCRR Part 225-1, must be done in accordance with methods acceptable to the commissioner.

Condition 46: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 227-1.4(b)

Item 46.1:

Air Pollution Control Permit Conditions

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Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003

The Compliance Certification activity will be performed for:

Emission Unit: B-00001

Process: OIL

Item 46.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a stationary combustion installation which utilizes a continuous opacity monitoring system (COMS) shall include the following in their quarterly excess emission reports:

- 1) Magnitude, date, and time of each exceedence;
- 2) For each period of excess emissions, specific identification of the cause and corrective action taken;
- 3) Date, time, and duration of each period of COMS downtime, and the corrective action for each period of downtime;
- 4) Total time the COMS is required to record data during the reporting period;
- 5) The total number of exceedences and the duration of exceedences expressed as a percentage of the total time in which the COMS are required to record data; and
- 6) Such other requirements as the Department may deem necessary in order to enforce Article 19 of the Environmental Conservation Law (ECL).

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 11/29/02.

Subsequent reports are due every 3 calendar month(s).

Condition 47: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 47.1:

The Compliance Certification activity will be performed for:

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Facility DEC ID: 6405800003



Emission Unit: B-00001

Process: OIL

Emission Source: B0001

Item 47.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average utilizing a continuous opacity monitor (COM).

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Meth 9

Monitoring Frequency: CONTINUOUS

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 11/29/02.

Subsequent reports are due every 3 calendar month(s).

Condition 48: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 48.1:

The Compliance Certification activity will be performed for:

Emission Unit: B-00001

Process: OIL

Emission Source: B0002

Item 48.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average utilizing a continuous opacity monitor (COM).



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Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: EPA Meth 9
Monitoring Frequency: CONTINUOUS
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 60 days after the reporting period.
The initial report is due 11/29/02.
Subsequent reports are due every 3 calendar month(s).

Condition 49: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 49.1:

The Compliance Certification activity will be performed for:

Emission Unit: B-00001
Process: OIL Emission Source: B0003

Item 49.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

0 No owner or operator of a combustion installation shall
emit greater than 20 percent opacity except for one six
minute period per hour, not to exceed 27 percent, based
upon the six minute average utilizing a continuous opacity
monitor (COM).

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: EPA Meth 9
Monitoring Frequency: CONTINUOUS
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 60 days after the reporting period.
The initial report is due 11/29/02.
Subsequent reports are due every 3 calendar month(s).

Condition 50: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

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

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Item 50.1:

The Compliance Certification activity will be performed for:

Emission Unit: B-00001

Process: OIL

Emission Source: B0004

Item 50.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average utilizing a continuous opacity monitor (COM).

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Meth 9

Monitoring Frequency: CONTINUOUS

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 11/29/02.

Subsequent reports are due every 3 calendar month(s).

Condition 51: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 51.1:

The Compliance Certification activity will be performed for:

Emission Unit: B-00001 Emission Point: 00001

Process: GAS

Item 51.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six



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minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test method 9 in Appendix A of 40 CFR 60.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA RM 9

Monitoring Frequency: AS REQUIRED - SEE MONITORING

DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 52: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 227.2(b)(1)

Item 52.1:

The Compliance Certification activity will be performed for:

Emission Unit: B-00001 Emission Point: 00001

Process: OIL

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 52.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Particulate emission limit for a stationary combustion installation firing oil. The owner or operator shall complete the following once per term of this permit:

- 1) submit, to the Department, an acceptable protocol for the testing of particulate emission limit cited in this condition,
- 2) perform a stack test, based upon the approved test protocol, to determine compliance with the particulate emission limit cited in this condition, and
- 3) all records shall be maintained at the facility for a minimum of five years.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus



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Reference Test Method: Method 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

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 1/30/03.

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

Condition 53: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 53.1:

The Compliance Certification activity will be performed for:

Emission Unit: B-00001 Emission Point: 00002

Process: GAS

Item 53.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall
emit greater than 20 percent opacity except for one six
minute period per hour, not to exceed 27 percent, based
upon the six minute average in reference test method 9 in
Appendix A of 40 CFR 60.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA RM 9

Monitoring Frequency: AS REQUIRED - SEE MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 54: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 227.2(b)(1)

Item 54.1:

The Compliance Certification activity will be performed for:



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Emission Unit: B-00001 Emission Point: 00002
Process: OIL

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

Item 54.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Particulate emission limit for a stationary combustion installation firing oil. The owner or operator shall complete the following once per term of this permit:

- 1) submit, to the Department, an acceptable protocol for the testing of particulate emission limit cited in this condition,
- 2) perform a stack test, based upon the approved test protocol, to determine compliance with the particulate emission limit cited in this condition, and
- 3) all records shall be maintained at the facility for a minimum of five years.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: Method 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

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 1/30/03.

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

Condition 55: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 231-2.2(d)(3)

Item 55.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00001

Regulated Contaminant(s):



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CAS No: 0NY998-00-0 VOC

Item 55.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission rate of volatile organic compounds (VOC) from this emission unit shall not exceed 9.1 pounds per hour.

Upper Permit Limit: 9.1 pounds per hour

Reference Test Method: METHOD 25A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 56: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 231-2.2(d)(3)

Item 56.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00001

Regulated Contaminant(s):

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

Item 56.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission rate of nitrogen oxides (NOx) from this emission unit shall not exceed 9.1 pounds per hour.

Upper Permit Limit: 9.1 pounds per hour

Reference Test Method: METHOD 7E

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 57: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

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Applicable Federal Requirement: 40CFR 52.21(i)(1), Subpart Ar

Item 57.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 57.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission rate of particulate matter (PM) from this emission unit shall not exceed 5.6 pounds per hour.

Upper Permit Limit: 5.6 pounds per hour

Reference Test Method: METHOD 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 58: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.10(c)(4)(i)

Item 58.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00001

Process: CD1

Emission Source: C029B

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 58.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Owner shall determine compliance with the VOC RACT requirements of 6 NYCRR Part 212.10(c)(4)(i) by performing

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a stack test on the exhaust gas emissions of emission control C029B and comparing that to the inlet VOC concentration as determined by the following method:

$$\text{Inlet VOC} = (\% \text{residual lube on chips}) \times (\text{tons chips processed during test})$$

$$\text{Overall removal efficiency} = \frac{[(\text{inlet VOC}) - (\text{exhaust gas VOC from test})]}{(\text{inlet VOC})} \times 100$$

Parameter Monitored: VOC

Lower Permit Limit: 81 percent reduction by weight

Reference Test Method: EPA RM 18 or 25A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 59: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.11(b)(1)

Item 59.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00001

Process: CD1

Emission Source: C029B

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 59.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Owners and/or operators of any source equipped with a thermal incinerator for emissions control equipment must install a continuous monitor and data recorder for exhaust gas temperature. The continuous monitor must be operated at all times when the associated process equipment is operating except during any quality assurance and routine maintenance activities. The Continuous Monitoring System (CMS) will be operated and maintained according to a CMS Operation and Maintenance (CMS O&M) Plan that will be submitted to the Department for review and approval. The



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CMS O&M Plan will be updated as needed and any changes will be submitted to the Department for approval.

In order to ensure Process CD1 maintains 81% destruction of VOC, the afterburner (emission control C029B) must be operated with a minimum exhaust gas temperature of 1200 degrees Fahrenheit.

Parameter Monitored: TEMPERATURE
Lower Permit Limit: 1200 degrees Fahrenheit
Monitoring Frequency: CONTINUOUS
Averaging Method: 2-HOUR BLOCK AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/03.
Subsequent reports are due every 6 calendar month(s).

Condition 60: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.4(a)

Item 60.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00001 Emission Point: I0029
Process: CD1

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

Item 60.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Carbon Monoxide emissions from the facility were given an environmental rating of "C". Measured emissions at emission point I0029 (#1 Chip Dryer) were 13.3 pounds per hour which requires 70% control or Best Available Control Technology (BACT). A BACT analysis shall be submitted within 120 days of the permit issue date to show compliance with 212.5(d).

Upper Permit Limit: 10.0 pounds per hour
Reference Test Method: EPA method 10



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Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 61: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.4(a)

Item 61.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00001 Emission Point: I0029

Process: CD1

Regulated Contaminant(s):

CAS No: 000111-42-2 ETHANOL, 2,2'-IMINOBI-

Item 61.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

As required by 6 NYCRR Part 212.4(a) diethanolamine has been issued an environmental rating of B. The emission rate potential of diethanolamine from each emission source in this process shall remain less than 10 pounds per hour. Emission testing shall be conducted upon request from the Department.

Upper Permit Limit: 10.0 pounds per hour

Reference Test Method: EPA RM 18

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 62: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.10(c)(3)

Item 62.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00001 Emission Point: I0030

Process: CM1 Emission Source: C0030

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Regulated Contaminant(s):

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

Item 62.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The NOx RACT compliance plan submitted to NYSDEC in 1994 determined control of NOx was not technically or economically feasible at that time. The current equipment configuration meets NOx RACT.

Reference Test Method: EPA RM 7E

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 63: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.10(f)

Item 63.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00002

Regulated Contaminant(s):

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

Item 63.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operation of the chip dryer and melter (emission sources C0044 & C0045) with low NOx burners and staged air combustion is considered RACT for the purposes of 6 NYCRR Part 212.10(f).

Reference Test Method: EPA RM 7E

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY



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Condition 64: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 231-2.2(d)(3)

Item 64.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00002

Regulated Contaminant(s):

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

Item 64.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission rate of nitrogen oxides (NO_x) from this emission unit shall not exceed 9.1 pounds per hour.

Upper Permit Limit: 9.1 pounds per hour

Reference Test Method: METHOD 7E

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

f0 Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 65: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 231-2.2(d)(3)

Item 65.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00002

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission rate of volatile organic compounds (VOC) from this emission unit shall not exceed 9.1 pounds per

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hour.

Upper Permit Limit: 9.1 pounds per hour

Reference Test Method: METHOD 25A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 66: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 52.21(i)(1), Subpart A

Item 66.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00002

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 66.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission rate of particulate matter (PM) from this
emission unit shall not exceed 3.4 pounds per hour.

Upper Permit Limit: 3.4 pounds per hour

Reference Test Method: METHOD 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 67: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.4(a)

Item 67.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00002

Process: CD2



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Facility DEC ID: 6405800003

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 67.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

As required by 6 NYCRR Part 212.4(a) carbon monoxide (CO) has been issued an environmental rating of C. The emission rate potential of carbon monoxide from each emission source in this process shall remain less than 10 pounds per hour. Compliance testing shall be conducted upon request from the Department.

Upper Permit Limit: 10.0 pounds per hour

Reference Test Method: EPA RM 10

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 68: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.4(a)

Item 68.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00002

Process: CD2

Regulated Contaminant(s):

CAS No: 000111-42-2 ETHANOL, 2,2'-IMINOBI-

Item 68.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

As required by 6 NYCRR Part 212.4(a) diethanolamine has been issued an environmental rating of B. The emission rate potential of diethanolamine from each emission source in this process shall remain less than 10 pounds per hour. Emission testing shall be conducted upon request from the Department.

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Upper Permit Limit: 10.0 pounds per hour

Reference Test Method: EPA RM 18

Monitoring Frequency: AS REQUIRED - SEE MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 69: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.10(c)(4)(i)

Item 69.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00002

Process: CD2 Emission Source: C044B

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 69.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Owner shall determine compliance with the VOC RACT requirements of 6 NYCRR Part 212.10(c)(4)(i) by performing a stack test on the exhaust gas emissions of emission control C044B and comparing that to the inlet VOC concentration as determined by the following method:

$$\text{Inlet VOC} = (\% \text{residual lube on chips}) \times (\text{tons chips processed during test})$$

$$\text{Overall removal efficiency} = \frac{[(\text{inlet VOC}) - (\text{exhaust gas VOC from test})]}{(\text{inlet VOC})} \times 100$$

Parameter Monitored: VOC

Lower Permit Limit: 81 percent

Reference Test Method: EPA RM 18 or 25A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

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Condition 70: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.11(b)(1)

Item 70.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00002

Process: CD2

Emission Source: C044B

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 70.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Owners and/or operators of any source equipped with a thermal incinerator for emissions control equipment must install a continuous monitor and data recorder for exhaust gas temperature. The continuous monitor must be operated at all times when the associated process equipment is operating except during any quality assurance and routine maintenance activities. The Continuous Monitoring System (CMS) will be operated and maintained according to a CMS Operation and Maintenance (CMS O&M) Plan that will be submitted to the Department for review and approval within 90 days of issuance of the permit. The CMS O&M Plan will be updated as needed and any changes will be submitted to the Department for approval.

In order to ensure Process CD2 maintains an acceptable level of VOC reduction, the thermal incinerator (emission control C044B) must be operated with a minimum exhaust gas temperature of 1400 degrees Fahrenheit.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 1400 degrees Fahrenheit

Monitoring Frequency: CONTINUOUS

Averaging Method: 2-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

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Condition 71: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 228.2

Item 71.1:

The Compliance Certification activity will be performed for:

Emission Unit: D-00001

Process: PRT

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 71.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For all surface coatings subject to 6NYCRR Part 228, the VOC content (as applied, minus water and exempt VOC), must be less than or equal to the limit specified in Table 1 or Table 2 for the respective surface that is coated.

The VOC content of a coating, as applied, is calculated as follows:

$$(VOC)_a = (Dc)_a \{ [(Wv)_a - (Ww)_a - (We)_a] / [1 - [(Vw)_a + (Ve)_a]] \}$$

Where:

(VOC)_a = VOC content of "as applied" coating, expressed as a mass of VOC in pounds, per gallon of coating, in gallons, minus water and exempt VOC

(Dc)_a = Coating density as applied, in pounds per gallon

(Wv)_a = The weight fraction of total volatiles in the coating, as applied

(Ww)_a = The weight fraction of water in the coating, as applied

(Vw)_a = The volume fraction of water in the coating, as applied

(We)_a = The weight fraction of exempt VOCs in the coating, as applied

(Ve)_a = The volume fraction of exempt VOCs in the coating, as applied

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Reference Test Method: Method 24 (40CFR60)

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 72: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 228.5(a)

Item 72.1:

The Compliance Certification activity will be performed for:

Emission Unit: D-00001

Process: PRT

Item 72.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Certification from the coating supplier/manufacturer which verifies the parameters used to determine the actual VOC content of the as applied coating, for each coating used at the facility, must be maintained and, upon request, be provided to the departments representative. In addition, purchase, usage and/or production records of the coating material, including solvents, must be maintained and, upon request, be submitted to the department. Records must be maintained at the facility for a period of five years.

Monitoring Frequency: AS REQUIRED - SEE MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 73: method 24 40 CFR 60
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 228.5(b)

Item 73.1:

This Condition applies to Emission Unit: D-00001

Process: PRT

Item 73.2:

Acceptable analytical methods for determining the volatile content, water content, density, volume of



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solids and weight of solids of surface coatings are presented in appendix A, method 24, of 40 CFR 60.

Condition 74: samples

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 228.5(d)

Item 74.1:

This Condition applies to Emission Unit: D-00001
Process: PRT

Item 74.2:

Representatives of the department shall be permitted, during reasonable business hours, to obtain coating samples for the purpose of determining compliance.

Condition 75: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 228.7

Item 75.1:

The Compliance Certification activity will be performed for:

Emission Unit: D-00001
Process: PRT

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

Item 75.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

Clear coats used for the surface coating of miscellaneous metal parts and products may contain a maximum of 4.3 pounds of volatile organic compounds per gallon of coating (minus water and excluded VOC) as applied.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: CLEAR COATINGS - MISCELLANEOUS METAL PARTS
Parameter Monitored: VOC CONTENT
Upper Permit Limit: 4.3 pounds per gallon
Reference Test Method: Method 24 (40CFR60)
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)

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Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 76: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 228.10

Item 76.1:

The Compliance Certification activity will be performed for:

Emission Unit: D-00001

Process: PRT

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 76.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No owner or operator of a facility subject to 6NYCRR Part 228 shall:

- (a) use open containers to store or dispose of cloth or paper impregnated with VOC and/or solvents that are used for surface preparation, cleanup, or coating removal;
- (b) store in open containers spent or fresh VOC and/or solvents to be used for surface preparation, cleanup, or coating removal;
- (c) use VOC and/or solvents to cleanup spray equipment unless equipment is used to collect the cleaning compounds and to minimize their evaporation to the atmosphere;
- (d) use open containers to store or dispense surface coatings and/or inks unless production, sampling, maintenance, or inspection procedures require operational access. This provision does not apply to the actual device or equipment designed for the purpose of applying a coating material to a substrate; or
- (e) use open containers to store or dispose of spent surface coatings, spent VOCs and/or solvents.

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The surface coating operations shall be inspected daily to determine if there are any open containers present. Open containers, if found, shall be covered.

Monitoring Frequency: DAILY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 77: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 228.4

Item 77.1:

The Compliance Certification activity will be performed for:

Emission Unit: D-00001

Process: PRT

Emission Source: DF073

Item 77.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No person shall cause or allow emissions to the outdoor atmosphere having an average opacity of 20 percent or greater for any consecutive six-minute period from any emission source subject to 6NYCRR Part 228.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA RM 5

Monitoring Frequency: AS REQUIRED - SEE MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 78: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.5(d)

Item 78.1:

The Compliance Certification activity will be performed for:



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Emission Unit: M-00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 78.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The particulate matter (PM) emissions from this emission unit, are subject to the Federal National Emission Standards for Hazardous Air Pollutants in 40 CFR part 63 Subpart RRR, which satisfy the requirements of Part 212.5(d) for PM emissions as long as the source owner continues to demonstrate that the emission unit is in compliance with the respective Federal requirements contained in this permit. Compliance testing shall be conducted upon request from the department.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 79: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 79.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00001

Item 79.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of each affected source or emission unit subject to an emission limit in kg/Mg (lb/ton) of feed/charge must:

(1) Except as provided in paragraph (3) of this condition, install and operate 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 emissions test; and

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(2) Operate each weight measurement system or other weight determination procedure in accordance with the manufacturer's recommendations.

(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.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 80: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 80.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00001

Item 80.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

When a process parameter or add-on air pollution control device operating parameter deviates from the value or range established during the emissions test, 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



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value or range of values established during the emissions test and steps to prevent the likely recurrence of the cause of a deviation.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 81: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 81.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00001

Item 81.2:

Compliance Certification 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 ug/Mg (gr/ton) of feed/charge must install, calibrate, operate, and maintain a device to measure and record the total weight of feed/charge to, or the aluminum production from, the affected source or emission unit over the same operating cycle or time period used in the initial emissions test. Feed/charge or aluminum production within SAPUs must be measured and recorded on an emission unit-by-emission unit basis. 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.

(1) The accuracy of the weight measurement device or procedure must be ± 5 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 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

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relevant emission standard.

(2) 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.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 82: Calculation of Secondary Aluminum Processing Unit PM emissions

Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 82.1:

This Condition applies to Emission Unit: M-00001

Item 82.2:

Except as provided in paragraph 40 CFR Part 63.1510(u), the owner or operator must calculate and record the 3-day, 24-hour rolling average emissions of PM for each secondary aluminum processing unit on a daily basis. To calculate the 3-day, 24-hour rolling average, the owner or operator must:

(1) Calculate and record the total weight of material charged to each emission unit in the secondary aluminum processing unit for each 24-hour day of operation using the feed/charge weight information required in paragraph (e) of this section. If the owner or operator chooses to comply on the basis of weight of aluminum produced by the emission unit, rather than weight of material charged to the emission unit, all performance test emissions results and all calculations must be conducted on the aluminum production weight basis.

(2) Multiply the total feed/charge weight to the emission unit, or the weight of aluminum produced by the emission unit, for each emission unit for the 24-hour period by the emission rate (in lb/ton of feed/charge) for that emission unit (as determined during the performance test) to provide emissions for each emission unit for the 24-hour period, in pounds.

(3) Divide the total emissions for each SAPU for the 24-hour period by the total material charged to the SAPU, or the weight of aluminum produced by the SAPU over the 24-hour period to provide the daily emission rate for the SAPU.

(4) Compute the 24-hour daily emission rate using the equation below:



$$E_{day} = \frac{\sum_{i=1}^n (T_i \times ER_i)}{\sum_{i=1}^n T_i}$$

Where,

E_{day} = The daily PM emission rate for the secondary aluminum processing unit for the 24-hour period;
 T_i = The total amount of feed, or aluminum produced, for emission unit i for the 24-hour period (tons);
 ER_i = The measured emission rate for emission unit i as determined in the performance test (lb/ton or $\mu\text{g}/\text{Mg}$ of feed/charge); and
 n = The number of emission units in the secondary aluminum processing unit.

(5) Calculate and record the 3-day, 24-hour rolling average of PM each day by summing the daily emission rates for each pollutant over the 3 most recent consecutive days and dividing by 3.

Condition 83: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 83.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00001

Item 83.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Prior to conducting an emissions test required by this permit, the owner or operator must prepare and submit a site-specific test plan meeting the requirements in 6 NYCRR Part 202-1.2 and 202-1.3. Such plan shall be submitted to the Department within 90 days of issuance of this permit. Testing of the subject source must occur within 90 days of Department approval of the site-specific test plan.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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Condition 84: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 84.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00001

Item 84.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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 to the Department within 90 days of achieving initial compliance. The owner or operator must conduct each emissions test according to the requirements of the general provisions in 40 CFR 63 subpart A and subpart RRR.

(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 flux rate.

(2) Each emissions 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 emissions 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



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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 initial emissions test is less than
or equal to the applicable emission limit or standard.

Reference Test Method: EPA RM 5

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 85: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 85.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00001

Item 85.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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.

Monitoring Frequency: AS REQUIRED - SEE MONITORING



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DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 86: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 86.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00001

Item 86.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of new or existing emission units located at secondary aluminum production facilities that are major sources must conduct an emissions test every 5 years following the initial emissions test.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 87: Testing of Representative Emission Units

Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 87.1:

This Condition applies to Emission Unit: M-00001

Item 87.2:

With the approval of the permitting authority, a single representative or similar group 1 furnace or in-line fluxer which is not controlled by an add-on control device may be tested to determine the emission rate of all like affected sources at a facility provided that:

- (1) The tested emission unit must use identical feed/charge and flux materials in the same proportions as the emission units that it represents;
- (2) The tested emission unit is subject to the same work practices and the emission units that it represents;
- (3) The tested emission unit is of the same design as the emission units that it represents;



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(4) The tested emission unit is tested under the highest load or capacity reasonably expected to occur for any of the emission units that it represents;

(5) At least one of each different style of emission unit at the facility is tested; and

(6) All add-on control devices are tested.

Condition 88: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 88.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00001

Item 88.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Establishment of monitoring and operating parameter values. The owner or operator of new or existing 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 this permit, 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), to the Department. The owner or operator may use existing data in addition to the results of emissions 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.

(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.

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(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.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 89: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 89.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 89.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must conduct emission tests as described below. The results of the emission tests are used to establish emission rates in lb/ton of feed/charge for PM from each emission unit. These emission rates are used for compliance monitoring in the calculation of the 3-day, 24-hour rolling average emission rates using the equation in 40 CFR Part 63.1510(t). An emissions test is required for:

(1) Each group 1 furnace that processes scrap other than clean charge to measure emissions of PM.

(2) Each in-line fluxer to measure emissions of PM.

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 90: Performance Test/Compliance Demonstration Requirements and Procedures - Feed/Charge Weight Measurement.
Effective between the dates of 09/01/2002 and 09/01/2007

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



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

Item 90.1:

This Condition applies to Emission Unit: M-00001

Item 90.2:

Feed/charge weight measurement. During the emission test(s) conducted to determine compliance with emission limits in a kg/Mg (lb/ton) format, the owner or operator of an affected source or emission unit, subject to an emission limit in a kg/Mg (lb/ton) of feed/charge format, must measure (or otherwise determine) and record the total weight of feed/charge to the affected source or emission unit for each of the three test runs and calculate and record the total weight. An owner or operator that chooses to demonstrate compliance on the basis of the aluminum production weight must measure the weight of aluminum produced by the emission unit or affected source instead of the feed/charge weight.

Condition 91: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.1513(b), Subpart RRR

Item 91.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00001

Item 91.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Use the Equation below to determine the emission rate of PM from the emission unit:

$$E = \frac{C \times Q \times K1}{P}$$

P

Where,

E = Emission rate of PM, kg/Mg (lb/ton) of feed;

C = Concentration of PM, g/dscm (gr/dscf);

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Q = Volumetric flow rate of exhaust gases, dscm/hr (dscf/hr);
K1 = Conversion factor, 1 kg/1,000 g (1 lb/7,000 gr); and
P = Production rate, Mg/hr (ton/hr).

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 92: Equations for Determining Compliance - Secondary Aluminum Processing Unit
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.1513(e), Subpart RRR

Item 92.1:

This Condition applies to Emission Unit: M-00001

Item 92.2:

Use the procedure below to determine compliance with emission limits for a secondary aluminum processing unit.

(1) Use the equation below to compute the mass-weighted PM emissions for a secondary aluminum processing unit. Compliance is achieved if the mass-weighted emissions for the secondary aluminum processing unit E_{CPM} is less than or equal to the emission limit for the secondary aluminum processing unit L_{CPM} calculated using Equation 1 in 40 CFR Part 63.1505(k).

$$E_{CPM} = \frac{\sum_{i=1}^n (E_{tiPM} \times T_{ti})}{\sum_{i=1}^n (T_{ti})}$$

Where,

E_{CPM} = The mass-weighted PM emissions for the secondary aluminum processing unit;

E_{tiPM} = Measured PM emissions for individual emission unit i;

T_{ti} = The average feed rate for individual emission unit i during the operating cycle or performance test period; and

n=The number of emission units in the secondary aluminum processing unit.

Condition 93: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007



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Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003

Applicable Federal Requirement: 40CFR 63.1517(b)(7), Subpart RRR

Item 93.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00001

Item 93.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each emission unit subject to an emission standard in kg/Mg (lb/ton) of feed/charge, records of feed/charge (or throughput) weights for each operating cycle or time period used in the emissions test.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 94: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.1517(b)(17), Subpart RRR

Item 94.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00001

Item 94.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each secondary aluminum processing unit, records of total charge weight, or if the owner or operator chooses to comply on the basis of aluminum production, total aluminum produced for each 24-hour period and calculations of 3-day, 24-hour rolling average emissions.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

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Condition 95: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.10(c)(3)

Item 95.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00001 Emission Point: I003C
Process: MHS Emission Source: M003C

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

Item 95.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operation of the of the #15 melting and holding furnace
with low NOx burners is considered RACT for the purposes
of 6 NYCRR Part 212.10(c)(3).

Reference Test Method: EPA RM 7E

Monitoring Frequency: AS REQUIRED - SEE 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 1/30/03.

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

Condition 96: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.10(c)(3)

Item 96.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00001 Emission Point: I024F
Process: MHA Emission Source: M024F

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



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Item 96.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operation of the of the #32 melting and holding furnace with low NOx burners is considered RACT for the purposes of 6 NYCRR Part 212.10(c)(3).

Reference Test Method: EPA RM 7E

Monitoring Frequency: AS REQUIRED - SEE 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 1/30/03.

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

Condition 97: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.5(d)

Item 97.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00002

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 97.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The particulate matter (PM) emissions from this emission unit, are subject to the Federal National Emission Standards for Hazardous Air Pollutants in 40 CFR part 63 Subpart RRR, which satisfy the requirements of Part 212.5(d) for PM emissions as long as the source owner continues to demonstrate that the emission unit is in compliance with the respective Federal requirements contained in this permit. Compliance testing shall be conducted upon request from the Department.

Monitoring Frequency: AS REQUIRED - SEE MONITORING

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DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 98: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 98.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00002

Item 98.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of each affected source or emission unit subject to an emission limit in kg/Mg (lb/ton) of feed/charge must:

(1) Except as provided in paragraph (3) of this condition, install and operate 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 emissions test; and

(2) Operate each weight measurement system or other weight determination procedure in accordance with the manufacturer's recommendation.

(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.

Monitoring Frequency: AS REQUIRED - SEE MONITORING

DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

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Condition 99: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 99.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00002

Item 99.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

When a process parameter or add-on air pollution control device operating parameter deviates from the value or range established during the emissions test, 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 emissions test and steps to prevent the likely recurrence of the cause of a deviation.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 100: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 100.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00002

Item 100.2:

Compliance Certification shall include the following monitoring:

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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 ug/Mg (gr/ton) of feed/charge must install, calibrate, operate, and maintain a device to measure and record the total weight of feed/charge to, or the aluminum production from, the affected source or emission unit over the same operating cycle or time period used in the initial emissions test. Feed/charge or aluminum production within SAPUs must be measured and recorded on an emission unit-by-emission unit basis. 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.

(1) The accuracy of the weight measurement device or procedure must be ± 5 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 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.

(2) 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.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 101: Calculation of Secondary Aluminum Processing Unit PM emissions

Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 101.1:

This Condition applies to Emission Unit: M-00002



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Item 101.2:

Except as provided in paragraph 40 CFR Part 63.1510(u), the owner or operator must calculate and record the 3-day, 24-hour rolling average emissions of PM for each secondary aluminum processing unit on a daily basis. To calculate the 3-day, 24-hour rolling average, the owner or operator must:

(1) Calculate and record the total weight of material charged to each emission unit in the secondary aluminum processing unit for each 24-hour day of operation using the feed/charge weight information required in paragraph (e) of this section. If the owner or operator chooses to comply on the basis of weight of aluminum produced by the emission unit, rather than weight of material charged to the emission unit, all performance test emissions results and all calculations must be conducted on the aluminum production weight basis.

(2) Multiply the total feed/charge weight to the emission unit, or the weight of aluminum produced by the emission unit, for each emission unit for the 24-hour period by the emission rate (in lb/ton of feed/charge) for that emission unit (as determined during the performance test) to provide emissions for each emission unit for the 24-hour period, in pounds.

(3) Divide the total emissions for each SAPU for the 24-hour period by the total material charged to the SAPU, or the weight of aluminum produced by the SAPU over the 24-hour period to provide the daily emission rate for the SAPU.

(4) Compute the 24-hour daily emission rate using the equation below:

$$E_{day} = \frac{\sum_{i=1}^n (T_i \times ER_i)}{\sum_{i=1}^n T_i}$$

Where,

E_{day} = The daily PM emission rate for the secondary aluminum processing unit for the 24-hour period;

T_i = The total amount of feed, or aluminum produced, for emission unit i for the 24-hour period (tons);

ER_i = The measured emission rate for emission unit i as determined in the performance test (lb/ton or $\mu\text{g}/\text{Mg}$ of feed/charge); and

n = The number of emission units in the secondary aluminum processing unit.

(5) Calculate and record the 3-day, 24-hour rolling average of PM each day by summing the daily emission rates for each pollutant over the 3 most recent consecutive days and dividing by 3.

Condition 102: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

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

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Item 102.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00002

Item 102.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Prior to conducting an emissions test required by this permit, the owner or operator must prepare and submit a site-specific test plan meeting the requirements in 6 NYCRR Part 202-1.2 and 202-1.3. Such plan shall be submitted to the Department within 90 days of issuance of this permit. Testing of the subject source must occur within 90 days of Department approval of the site-specific test plan.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 103: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 103.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00002

Item 103.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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 to the Department within 90 days of achieving initial compliance. The owner or operator must conduct each emissions test according to the requirements of the general provisions in subpart A of this part and this subpart.

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(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 emissions 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 emissions 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 initial emissions test is less than or equal to the applicable emission limit or standard.

Reference Test Method: EPA RM 5

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 104: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 104.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00002

Item 104.2:

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Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 105: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 105.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00002

Item 105.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of new or existing emission units located at secondary aluminum production facilities that are major sources must conduct an emissions test every 5 years following the initial emissions test.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION



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Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 106: Testing of Representative Emission Units
Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 106.1:

This Condition applies to Emission Unit: M-00002

Item 106.2:

With the approval of the permitting authority, a single representative or similar group 1 furnace or in-line fluxer which is not controlled by an add-on control device may be tested to determine the emission rate of all like affected sources at a facility provided that:

- (1) The tested emission unit must use identical feed/charge and flux materials in the same proportions as the emission units that it represents;
- (2) The tested emission unit is subject to the same work practices and the emission units that it represents;
- (3) The tested emission unit is of the same design as the emission units that it represents;
- (4) The tested emission unit is tested under the highest load or capacity reasonably expected to occur for any of the emission units that it represents;
- (5) At least one of each different style of emission unit at the facility is tested; and
- (6) All add-on control devices are tested.

Condition 107: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 107.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00002

Item 107.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Establishment of monitoring and operating parameter values. The owner or operator of new or existing emission units must establish a minimum or maximum operating

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parameter value, or an operating parameter range for each parameter to be monitored, as required by this permit, 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), to the Department . The owner or operator may use existing data in addition to the results of emissions 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.

(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.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 108: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

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

Item 108.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00002

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 108.2:

Compliance Certification shall include the following monitoring:

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must conduct emission tests as described below. The results of the emission tests are used to establish emission rates in lb/ton of feed/charge for PM from each emission unit. These emission rates are used for compliance monitoring in the calculation of the 3-day, 24-hour rolling average emission rates using the equation in 40 CFR Part 63.1510(t). An emissions test is required for:

(1) Each group 1 furnace that processes scrap other than clean charge to measure emissions of PM.

(2) Each in-line fluxer to measure emissions of PM.

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 109: Performance Test/Compliance Demonstration Requirements and Procedures - Feed/Charge Weight Measurement.
Effective between the dates of 09/01/2002 and 09/01/2007**

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

Item 109.1:

This Condition applies to Emission Unit: M-00002

Item 109.2:

Feed/charge weight measurement. During the emission test(s) conducted to determine compliance with emission limits in a kg/Mg (lb/ton) format, the owner or operator of an affected source or emission unit, subject to an emission limit in a kg/Mg (lb/ton) of feed/charge format, must measure (or otherwise determine) and record the total weight of feed/charge to the affected source or emission unit for each of the three test runs and calculate and record the total weight. An owner or operator that chooses to demonstrate compliance on the basis of the aluminum production weight must measure the weight of aluminum produced by the emission unit or affected source instead of the feed/charge weight.

Condition 110: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.1513(b), Subpart RRR

Item 110.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00002

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Item 110.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Use the Equation below to determine the emission rate of PM from the emission unit:

$$E = \frac{C \times Q \times K1}{P}$$

P

Where,

E = Emission rate of PM, kg/Mg (lb/ton) of feed;

C = Concentration of PM, g/dscm (gr/dscf);

Q = Volumetric flow rate of exhaust gases, dscm/hr (dscf/hr);

K1 = Conversion factor, 1 kg/1,000 g (1 lb/7,000 gr); and

P = Production rate, Mg/hr (ton/hr).

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 111: Equations for Determining Compliance - Secondary Aluminum Processing Unit

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.1513(e), Subpart RRR

Item 111.1:

This Condition applies to Emission Unit: M-00002

Item 111.2:

Use the procedure below to determine compliance with emission limits for a secondary aluminum processing unit.

(1) Use the equation below to compute the mass-weighted PM emissions for a secondary aluminum processing unit. Compliance is achieved if the mass-weighted emissions for the secondary

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aluminum processing unit E_{CPM} is less than or equal to the emission limit for the secondary aluminum processing unit L_{CPM} calculated using Equation 1 in 40 CFR Part 63.1505(k).

$$E_{CPM} = \frac{\sum_{i=1}^n (E_{tiPM} \times T_{ti})}{\sum_{i=1}^n (T_{ti})}$$

Where,

E_{CPM} = The mass-weighted PM emissions for the secondary aluminum processing unit;

E_{tiPM} = Measured PM emissions for individual emission unit i ;

T_{ti} = The average feed rate for individual emission unit i during the operating cycle or performance test period; and

n = The number of emission units in the secondary aluminum processing unit.

Condition 112: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.1517(b)(7), Subpart RRR

Item 112.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00002

Item 112.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each emission unit subject to an emission standard in kg/Mg (lb/ton) of feed/charge, records of feed/charge (or throughput) weights for each operating cycle or time period used in the emissions test.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 113: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.1517(b)(17), Subpart RRR

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Item 113.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00002

Item 113.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each secondary aluminum processing unit, records of total charge weight, or if the owner or operator chooses to comply on the basis of aluminum production, total aluminum produced for each 24-hour period and calculations of 3-day, 24-hour rolling average emissions.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 114: General requirements

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 226.2

Item 114.1:

This Condition applies to Emission Unit: P-00001
Process: PWS

Item 114.2:

No person shall conduct solvent metal cleaning unless:

- (1) Solvent is stored in covered containers and waste solvent is transferred or disposed of in such a manner that less than 20 percent of the waste solvent, by weight, can evaporate into the atmosphere;
- (2) Equipment used in solvent metal cleaning is maintained to minimize leaks and fugitive emissions;
- (3) Equipment used in solvent metal cleaning displays a conspicuous summary of proper operating procedures consistent with minimizing emissions of volatile organic compounds; and
- (4) Equipment covers are closed when the solvent metal cleaning unit is not in service.
- (5) A record of solvent consumption shall be maintained for each year and made available to the commissioner or his representative upon request.



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Condition 115: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 226.3(a)

Item 115.1:

The Compliance Certification activity will be performed for:

Emission Unit: P-00001

Process: PWS

Item 115.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except where otherwise permitted by the commissioner, the following devices are required by a source owner conducting solvent metal cold cleaning degreasing:

(1) A cover shall be provided which can be operated easily.

(2) The drainage facility shall be internal (under cover), if practical.

(3) A control system that limits VOC emissions to those achievable with equipment having a freeboard ratio greater than or equal to 0.7, or a water cover where the solvent is insoluble in and heavier than water, where the solvent being used has a vapor pressure greater than 33mm Hg at 38° C (100° F) or where the solvent is heated above 50° C (120°F).

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

46 Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

Condition 116: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.9(d)



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Item 116.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Process: POT

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 116.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The following equation shall be used to determine permissible solid particulate emissions (based on process weight:

for sources up to 100,000 lb/hr - $E = 0.024P^{(0.67)}$;

where:

E - is the permissible emission rate, and

P - is process weight in lb/hr.

Reference Test Method: EPA Method 5

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

Condition 117: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.843(a)(1)(i), Subpart LL

Item 117.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Process: POT

Regulated Contaminant(s):



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Facility DEC ID: 6405800003

CAS No: 068188-85-2 FLUORIDES

Item 117.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall not discharge or cause to be discharged into the atmosphere any emissions of Total Fluorides (TF) in excess of the applicable limit below:

- 1.9 lb/ton of aluminum produced for each CWPB1 potline;

Monitoring Frequency: MONTHLY

Averaging Method: CALENDAR MONTH AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

Condition 118: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.847(d)(1), Subpart LL

Item 118.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Process: POT

Regulated Contaminant(s):

CAS No: 068188-85-2 FLUORIDES

Item 118.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The initial performance test and all subsequent performance tests shall be conducted in accordance with the requirements of the general provisions in 40 CFR Part 63 Subpart A, the approved test plan, and the procedures in 40 CFR Part 63.847.

For each potline, the owner or operator shall measure and

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record the emission rate of TF exiting the outlet of the primary control system for each potline and the rate of secondary emissions exiting through each roof monitor. Using the equation in 40 CFR Part 63.847(e)(1), the owner or operator shall compute and record the average of at least three runs each month for secondary emissions and at least three runs each year for the primary control system to determine compliance with the applicable emission limit. Compliance is demonstrated when the emission rate of TF is equal to or less than the applicable emission limit in 40 CFR Part 63.843(a)(1).

Parameter Monitored: FLUORIDES

Upper Permit Limit: 1.9 pounds per ton

Reference Test Method: EPA RM 13B or ALT

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

Condition 119: Performance Test Requirements - Previous Control Device Tests

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.847(d)(3), Subpart LL

Item 119.1:

This Condition applies to Emission Unit: S-00001
Process: POT

Item 119.2:

If the owner or operator has performed more than one test of primary emission control device(s) for a potline or for a bake furnace during the previous consecutive 12 months, the average of all runs performed in the previous 12-month period shall be used to determine the contribution from the primary emission control system.

Condition 120: Potline TF emission rate calculation

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.847(e)(1), Subpart LL

Item 120.1:

This Condition applies to Emission Unit: S-00001
Process: POT



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Item 120.2:

The owner/operator shall determine compliance with the applicable TF emission limits by computing the emission rate (E_p) of TF from each potline using the following equation (Equation 1):

$$E_p = [(C_{s1} \times Q_{sd})_1 + (C_{s2} \times Q_{sd})_2] / (P \times K)$$

Where:

E_p = emission rate of TF from a potline, kg/Mg (lb/ton);

C_{s1} = concentration of TF from the primary control system, mg/dscm (mg/dscf);

Q_{sd} = volumetric flowrate of effluent gas corresponding to the appropriate subscript location, dscm/hr (dscf/min);

C_{s2} = concentration of TF as measured for roof monitor emissions, mg/dscm (mg/dscf);

P = aluminum production rate Mg/hr (ton/hr);

K = conversion factor, 10^6 mg/kg (453,600 mg/lb);

1 = subscript for primary control system effluent gas; and

2 = subscript for secondary control system or roof monitor effluent gas

Condition 121: Procedure to determine weights

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.847(e)(5), Subpart LL

Item 121.1:

This Condition applies to Emission Unit: S-00001

Process: POT

Item 121.2:

The owner/operator shall determine compliance with the applicable TF and POM emission limits by determining the weight of the aluminum tapped from the potline and the weight of the green anode material placed in the anode bake furnace using the monitoring devices required in §63.848(j).

Condition 122: Calculation of aluminum production rate

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.847(e)(6), Subpart LL

Item 122.1:

This Condition applies to Emission Unit: S-00001

Process: POT

Item 122.2:

The owner/operator shall determine compliance with the applicable TF and POM emission limits by determining the aluminum production rate (P). This shall be done by dividing the number of hours in the



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calendar month into the weight of aluminum tapped from the potline during the calendar month that includes the three runs of a performance test.

**Condition 123: Selection of monitoring parameters - potlines and anode
bake furnaces
Effective between the dates of 09/01/2002 and 09/01/2007**

Applicable Federal Requirement: 40CFR 63.847(h)(1), Subpart LL

Item 123.1:

This Condition applies to Emission Unit: S-00001
Process: POT

Item 123.2:

The owner/operator shall determine the operating limits and monitoring frequency for each control device that is to be monitored as required in §63.848(f). For potlines and anode bake furnaces, the owner/operator shall determine upper and/or lower operating limits, as appropriate, for each monitoring device for the emission control system from the values recorded during each of the runs performed during the initial performance test and from historical data from previous performance tests conducted by the methods specified in subpart LL.

**Condition 124: Selection of monitoring parameters - redetermining
operating limits
Effective between the dates of 09/01/2002 and 09/01/2007**

Applicable Federal Requirement: 40CFR 63.847(h)(3), Subpart LL

Item 124.1:

This Condition applies to Emission Unit: S-00001
Process: POT

Item 124.2:

The owner/operator shall determine the operating limits and monitoring frequency for each control device that is to be monitored as required in §63.848(f). The owner/operator may redetermine the upper and/or lower operating limits, as appropriate, based on historical data or other information and submit an application to the New York State DEC to change the applicable limit(s). The redetermined limits shall become effective upon approval by the New York State DEC.

**Condition 125: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007**

Applicable Federal Requirement: 40CFR 63.848(a), Subpart LL

Item 125.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001
Process: POT



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1) Submit data from 24 consecutive months of sampling that show the average TF emissions are less than 60 percent of the applicable limit and that no monthly performance test in the 24 months of sampling exceeds 75 of the applicable limit; or

2) Submit data and a statistical analysis that the New York State DEC may evaluate based on the approach used in "Primary Aluminum: Statistical Analysis of Potline Fluoride Emissions and Alternative Sampling Frequency" (EPA-450-86-012, October 1986).

**Condition 127: Reduced sampling frequency request - contents of the approved alternative requirement
Effective between the dates of 09/01/2002 and 09/01/2007**

Applicable Federal Requirement: 40CFR 63.848(e)(2), Subpart LL

Item 127.1:

This Condition applies to Emission Unit: S-00001
Process: POT

Item 127.2:

The owner/operator may submit a written request to the New York State DEC to establish an alternative testing requirement to reduce the sampling of secondary TF emissions from potlines from monthly to quarterly.

An approved alternative requirement must include a test schedule and the method to be used to measure emissions for performance tests.

**Condition 128: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007**

Applicable Federal Requirement: 40CFR 63.848(f)(1), Subpart LL

Item 128.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001
Process: POT

Regulated Contaminant(s):
CAS No: 068188-85-2 FLUORIDES

Item 128.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall install, operate, calibrate, and maintain a continuous parameter monitoring system for each emission control device. The owner/operator shall submit



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for approval by the New York State DEC a description of the parameter(s) to be monitored, the operating limits, and the monitoring frequency to ensure that the control device is being properly operated and maintained. An explanation of the criteria used for selection of the parameter(s), the operating limits, and the monitoring frequency, including how these relate to emission control also shall be submitted to the New York State DEC.

Except as provided in §63.848(1), for dry alumina scrubbers, a device for the measurement of air flow shall be installed, monitored and recorded in accordance with the parametric monitoring plan.

Reference Test Method: 4075-TF

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 129: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(f)(1), Subpart LL

Item 129.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Process: POT

Regulated Contaminant(s):

CAS No: 068188-85-2 FLUORIDES

Item 129.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall install, operate, calibrate, and maintain a continuous parameter monitoring system for each 20emission control device. The owner/operator shall submit for approval by the New York State DEC a description of the parameter(s) to be monitored, the operating limits, and the monitoring frequency to ensure that the control device is being properly operated and maintained. An explanation of the criteria used for selection of the parameter(s), the operating limits, and the monitoring



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frequency, including how these relate to emission control also shall be submitted to the New York State DEC.

Except as provided in §63.848(1), for dry alumina scrubbers, a device for the measurement of alumina flow shall be installed, monitored and recorded in accordance with the parametric monitoring plan.

Reference Test Method: 4075-TF

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 130: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(g), Subpart LL

Item 130.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Process: POT

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 130.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall visually inspect the exhaust stack(s) of each control device on a daily basis for evidence of any visible emissions indicating abnormal operation.

Monitoring Frequency: DAILY

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

Condition 131: Corrective action procedures

Effective between the dates of 09/01/2002 and 09/01/2007

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Applicable Federal Requirement: 40CFR 63.848(h), Subpart LL

Item 131.1:

This Condition applies to Emission Unit: S-00001
Process: POT

Item 131.2:

If a monitoring device for a primary control device measures an operating parameter outside the limit(s) established pursuant to §63.847(h), or if visible emissions indicating abnormal operation are observed from the exhaust stack of a control device during a daily inspection, the owner/operator shall initiate the corrective action procedures identified in the startup, shutdown, and malfunction plan within 1 hour. Failure to initiate the corrective action procedures within 1 hour or to take the necessary corrective actions to remedy the problem is a violation.

Condition 132: Exceedances

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(i), Subpart LL

Item 132.1:

This Condition applies to Emission Unit: S-00001
Process: POT

Item 132.2:

If the limit for a given operating parameter associated with monitoring a specific control device is exceeded six times in any semiannual reporting period, then any subsequent exceedance in that reporting period is a violation. For the purpose of determining the number of exceedances, no more than one exceedance shall be attributed in any given 24-hour period.

Condition 133: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(j), Subpart LL

Item 133.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001
Process: POT

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

Item 133.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES



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Monitoring Description:

The owner/operator of a new or existing potline or anode bake furnace shall install, operate, and maintain a monitoring device to determine the daily weight of aluminum produced and the weight of green anode material placed in the anode bake furnace. The weight of green anode material may be determined by monitoring the weight of all anodes or by monitoring the number of anodes placed in the furnace and determining an average weight from measurements of a representative sample of anodes.

Monitoring Frequency: DAILY

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

Condition 134: Accuracy and calibration requirements
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(k), Subpart LL

Item 134.1:

This Condition applies to Emission Unit: S-00001
Process: POT

Item 134.2:

The owner/operator shall submit recommended accuracy requirement to the New York State DEC for review and approval. All monitoring devices required by §63.848 must be certified by the owner/operator to meet the accuracy requirements and must be calibrated in accordance with the manufacturer's instructions.

Condition 135: Alternative operating parameters
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(l), Subpart LL

Item 135.1:

This Condition applies to Emission Unit: S-00001
Process: POT

Item 135.2:

The owner/operator may monitor alternative control device operating parameters subject to prior written approval by the New York State DEC.



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Condition 136: Definition of potline in Method 14
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.849(c), Subpart LL

Item 136.1:

This Condition applies to Emission Unit: S-00001
Process: POT

Item 136.2:

Except as provided in §63.845(g)(1), references to "potroom" or "potroom group" in Method 14 in appendix A to part 60 shall be interpreted as "potline" for the purposes of subpart LL.

Condition 137: Installation of manifolds for potlines subject to Method 14
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.849(d), Subpart LL

Item 137.1:

This Condition applies to Emission Unit: S-00001
Process: POT

Item 137.2:

For sampling using Method 14 in Appendix A to part 60, the owner/operator shall install one Method 14 manifold per potline in a potroom that is representative of the entire potline, and this manifold shall meet the installation requirements specified in section 2.2.1 of Method 14 in appendix A to part 60.

Condition 138: Performance test reports
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(b), Subpart LL

Item 138.1:

This Condition applies to Emission Unit: S-00001
Process: POT

Item 138.2:

The owner/operator shall report the results of the initial performance test as part of the notification of compliance status required in §63.850(a)(6). Except as provided in §63.850(d), the owner/operator shall submit a summary of all subsequent performance tests to the New York State DEC on an annual basis.

Condition 139: Startup, shutdown, and malfunction plan and reports
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(c)(1), Subpart LL

Item 139.1:



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This Condition applies to Emission Unit: S-00001
Process: POT

Item 139.2:

The owner/operator shall develop and implement a written plan as described in §63.6(e)(3) that contains specific procedures to be followed for operating the source and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and control systems used to comply with the standard. The plan does not have to be submitted with the permit application or included in the operating permit. The New York State DEC may review the plan upon request. In addition to the information required in §63.6(e)(3), the plan shall include procedures, including corrective actions, to be followed if a monitoring device measures an operating parameter outside the limit(s) established under §63.847(h), or if visible emissions from an exhaust stack indicating abnormal operation of a control device are observed by the owner/operator during the daily inspection required in §63.848(g).

Condition 140: Startup, shutdown, and malfunction plan and reports
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(c)(2), Subpart LL

Item 140.1:

This Condition applies to Emission Unit: S-00001
Process: POT

Item 140.2:

The owner/operator shall develop and implement a written plan as described in §63.6(e)(3) that contains specific procedures to be followed for operating the source and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and control systems used to comply with the standard. The plan does not have to be submitted with the permit application or included in the operating permit. The New York State DEC may review the plan upon request. In addition to the information required in §63.6(e)(3), the plan shall include records of each event as required by §63.10(b) and the owner/operator shall 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)(iv).

Condition 141: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(d), Subpart LL

Item 141.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001
Process: POT

Regulated Contaminant(s):
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Item 141.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

As required in §63.10(e)(3), the owner/operator shall submit a report (or a summary report) if measured emissions are in excess of the applicable standard. The report shall contain the information specified in §63.10(e)(3)(v) and be submitted semiannually unless quarterly reports are required as a result of excess emissions.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

Condition 142: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(e)(1), Subpart LL

Item 142.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Process: POT

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 142.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall maintain files of all information (including all reports and notifications) required by §63.10(b) and by Subpart LL. Records must be retained 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 offsite.

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Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 143: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(e)(2), Subpart LL

Item 143.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Process: POT

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 143.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator may retain records on microfilm, on a computer, on computer disks, on magnetic tape, or on microfiche.

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 144: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(e)(3), Subpart LL

Item 144.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Process: POT

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 144.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator may report required information on

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paper or on a labeled computer disc using commonly available and compatible computer software.

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 145: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(e)(4), Subpart LL

Item 145.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Process: POT

Item 145.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In addition to the general records required by §63.10(b), the owner/operator shall maintain records of the following information:

- 1) Daily production rate of aluminum;
- 2) A copy of the startup, shutdown, and malfunction plan;
- 3) Records supporting a request for reduced sampling of potlines;
- 4) Records, such as a checklist or the equivalent, demonstrating that the daily visual inspection of the exhaust stack for each control device has been performed as required in §63.848(g), including the results of each inspection;
- 5) Records documenting the corrective actions taken when the limit(s) for an operating parameter established under §63.847(h) were exceeded, or when visible emissions indicating abnormal operation were observed from a control device stack during a daily inspection required under §63.848(g);
- 6) Records documenting the portion of TF that is measured as particulate matter and the portion that is measured as



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gaseous when the particulate and gaseous fractions are quantified separately using an approved test method.

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 146: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.843(c)(1), Subpart LL

Item 146.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Process: BAK

Regulated Contaminant(s):

CAS No: 068188-85-2 FLUORIDES

Item 146.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall not discharge or cause to be discharged into the atmosphere any emissions of TF in excess of the limit specified below:

- TF shall not exceed 0.20 lb/ton of green anode.

Reference Test Method: EPA Method 13A

Monitoring Frequency: ANNUALLY

Averaging Method: CALENDAR YEAR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

Condition 147: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.843(c)(2), Subpart LL

Item 147.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002



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Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003

Process: BAK

Regulated Contaminant(s):

CAS No: 0NY505-00-0 40 CFR 63 SUBPART LL - POM

Item 147.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall not discharge or cause to be discharged into the atmosphere any emissions of POM in excess of the limit specified below:

- POM shall not exceed 0.18 lb/ton of green anode.

Reference Test Method: EPA Method 315

Monitoring Frequency: ANNUALLY

Averaging Method: CALENDAR YEAR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

Condition 148: Performance Test Requirements - Previous Control Device Tests

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.847(d)(3), Subpart LL

Item 148.1:

This Condition applies to Emission Unit: S-00002

Process: BAK

Item 148.2:

If the owner or operator has performed more than one test of primary emission control device(s) for a potline or for a bake furnace during the previous consecutive 12 months, the average of all runs performed in the previous 12-month period shall be used to determine the contribution from the primary emission control system.

Condition 149: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.847(d)(4), Subpart LL

Item 149.1:

The Compliance Certification activity will be performed for:

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Facility DEC ID: 6405800003



Emission Unit: S-00002

Process: BAK

Regulated Contaminant(s):

CAS No: 0NY505-00-0 40 CFR 63 SUBPART LL - POM

Item 149.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The initial performance test and all subsequent performance tests shall be conducted in accordance with the requirements of the general provisions in 40 CFR Part 63 Subpart A, the approved test plan, and the procedures in 40 CFR Part 63.847.

For each anode bake furnace, the owner or operator shall measure and record the emission rate of POM exiting the exhaust stack(s) of the primary emission control system for each anode bake furnace. Using the equation in 40 CFR Part 63.847(e)(4), the owner or operator shall compute and record the average of at least three runs each year to determine compliance with the applicable emission limit for POM. Compliance is demonstrated when the emission rate of POM is equal to or less than the applicable POM emission limit in 40 CFR Part 63.843(c)(2).

n0 Parameter Monitored: 40 CFR 63 SUBPART LL - POM
Upper Permit Limit: 0.18 pounds per ton
Reference Test Method: EPA RM 315
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/03.
Subsequent reports are due every 6 calendar month(s).

Condition 150: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.847(d)(4), Subpart LL

Item 150.1:

The Compliance Certification activity will be performed for:

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



Emission Unit: S-00002

Process: BAK

Regulated Contaminant(s):

CAS No: 068188-85-2 FLUORIDES

Item 150.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The initial performance test and all subsequent performance tests shall be conducted in accordance with the requirements of the general provisions in 40 CFR Part 63 Subpart A, the approved test plan, and the procedures in 40 CFR Part 63.847.

For each anode bake furnace, the owner or operator shall measure and record the emission rate of TF exiting the exhaust stack(s) of the primary emission control system for each anode bake furnace. Using the equation in 40 CFR Part 63.847(e)(3), the owner or operator shall compute and record the average of at least three runs each year to determine compliance with the applicable emission limit for TF. Compliance is demonstrated when the emission rate of TF is equal to or less than the applicable TF emission limit in 40 CFR Part 63.843(c)(1).

Parameter Monitored: FLUORIDES

Upper Permit Limit: 0.20 pounds per ton

Reference Test Method: EPA RM 13B or ALT

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

**Condition 151: Calculation of anode bake furnace TF emission rate
Effective between the dates of 09/01/2002 and 09/01/2007**

Applicable Federal Requirement: 40CFR 63.847(e)(3), Subpart LL

Item 151.1:

This Condition applies to Emission Unit: S-00002

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Process: BAK

Item 151.2:

The owner/operator shall determine compliance with the applicable TF emission limits by computing the emission rate (E_b) from each anode bake furnace using the following equation (Equation 2):

$$E_b = (C_s \times Q_{sd}) / (P_b \times K)$$

E_b =emission rate of TF, kg/mg (lb/ton) of green anodes produced;

C_s =concentration of TF, mg/dscm (mg/dscf);

Q_{sd} =volumetric flowrate of effluent gas, dscm/hr (dscf/hr);

P_b =quantity of green anode material placed in the furnace, mg/hr (ton/hr); and

K = conversion factor, 10^6 mg/kg (453,600 mg/lb)

**Condition 152: Calculation of anode bake furnace POM emission rate
Effective between the dates of 09/01/2002 and 09/01/2007**

Applicable Federal Requirement: 40CFR 63.847(e)(4), Subpart LL

Item 152.1:

This Condition applies to Emission Unit: S-00002
Process: BAK

Item 152.2:

The owner/operator shall determine compliance with the applicable POM emission limits by computing the emission rate (E_b) from each anode bake furnace using the following equation (Equation 2):

$$E_b = (C_s \times Q_{sd}) / (P_b \times K)$$

E_b =emission rate of POM, kg/mg (lb/ton) of green anodes produced;

C_s =concentration of POM, mg/dscm (mg/dscf);

Q_{sd} =volumetric flowrate of effluent gas, dscm/hr (dscf/hr);

P_b =quantity of green anode material placed in the furnace, mg/hr (ton/hr); and

K = conversion factor, 10^6 mg/kg (453,600 mg/lb)

**Condition 153: Procedure to determine weights
Effective between the dates of 09/01/2002 and 09/01/2007**

Applicable Federal Requirement: 40CFR 63.847(e)(5), Subpart LL

Item 153.1:

This Condition applies to Emission Unit: S-00002
Process: BAK

Item 153.2:

The owner/operator shall determine compliance with the applicable TF and POM emission limits by



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determining the weight of the aluminum tapped from the potline and the weight of the green anode material placed in the anode bake furnace using the monitoring devices required in §63.848(j).

Condition 154: Determination of rate of green anode introduction into furnace
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.847(e)(7), Subpart LL

dItem 154.1:

This Condition applies to Emission Unit: S-00002
Process: BAK

Item 154.2:

The owner/operator shall determine compliance with the applicable TF and POM emission limits by calculating the rate that green anode material is introduced into the anode bake furnace. This shall be determined by dividing the number of operating hours in the calendar month into the weight of green anode material used during the calendar month in which the performance test was conducted.

Condition 155: Selection of monitoring parameters - potlines and anode bake furnaces
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.847(h)(1), Subpart LL

Item 155.1:

This Condition applies to Emission Unit: S-00002
Process: BAK

Item 155.2:

The owner/operator shall determine the operating limits and monitoring frequency for each control device that is to be monitored as required in §63.848(f). For potlines and anode bake furnaces, the owner/operator shall determine upper and/or lower operating limits, as appropriate, for each monitoring device for the emission control system from the values recorded during each of the runs performed during the initial performance test and from historical data from previous performance tests conducted by the methods specified in subpart LL.

Condition 156: Selection of monitoring parameters - redetermining operating limits
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.847(h)(3), Subpart LL

Item 156.1:

This Condition applies to Emission Unit: S-00002
Process: BAK

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Item 156.2:

The owner/operator shall determine the operating limits and monitoring frequency for each control device that is to be monitored as required in §63.848(f). The owner/operator may redetermine the upper and/or lower operating limits, as appropriate, based on historical data or other information and submit an application to the New York State DEC to change the applicable limit(s). The redetermined limits shall become effective upon approval by the New York State DEC.

Condition 157: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(c), Subpart LL

Item 157.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Process: BAK

Regulated Contaminant(s):

CAS No: 0NY505-00-0 40 CFR 63 SUBPART LL - POM

Item 157.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Using the procedures in §63.847 and in the approved test plan, the owner/operator shall monitor POM emissions from each anode bake furnace on an annual basis. The owner/operator shall compute and record the annual average of POM emissions from at least three runs to determine compliance with the applicable emission limits. The owner/operator must include all valid runs in the annual average.

Parameter Monitored: 40 CFR 63 SUBPART LL - POM

Upper Permit Limit: 0.18 pounds per ton

Reference Test Method: EPA METHOD 315

Monitoring Frequency: ANNUALLY

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

Condition 158: Compliance Certification



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Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(c), Subpart LL

Item 158.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Process: BAK

Regulated Contaminant(s):

CAS No: 068188-85-2 FLUORIDES

Item 158.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Using the procedures in §63.847 and in the approved test plan, the owner/operator shall monitor TF emissions from each anode bake furnace on an annual basis. The owner/operator shall compute and record the annual average of TF emissions from at least three runs to determine compliance with the applicable emission limits. The owner/operator must include all valid runs in the annual average.

Parameter Monitored: FLUORIDES

Upper Permit Limit: 0.20 pounds per ton

Monitoring Frequency: ANNUALLY

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

Condition 159: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(f)(1), Subpart LL

Item 159.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Process: BAK



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Facility DEC ID: 6405800003

Regulated Contaminant(s):
CAS No: 068188-85-2 FLUORIDES

Item 159.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall install, operate, calibrate, and maintain a continuous parameter monitoring system for each emission control device. The owner/operator shall submit for approval by the New York State DEC a description of the parameter(s) to be monitored, the operating limits, and the monitoring frequency to ensure that the control device is being properly operated and maintained. An explanation of the criteria used for selection of the parameter(s), the operating limits, and the monitoring frequency, including how these relate to emission control also shall be submitted to the New York State DEC.

Except as provided in §63.848(1), for dry alumina scrubbers, a device for the measurement of air flow shall be installed, monitored and recorded in accordance with the parametric monitoring plan.

Reference Test Method: 4075-TF

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 160: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(f)(1), Subpart LL

Item 160.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002
Process: BAK

Regulated Contaminant(s):
CAS No: 068188-85-2 FLUORIDES

Item 160.2:

Compliance Certification shall include the following monitoring:



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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall install, operate, calibrate, and maintain a continuous parameter monitoring system for each emission control device. The owner/operator shall submit for approval by the New York State DEC a description of the parameter(s) to be monitored, the operating limits, and the monitoring frequency to ensure that the control device is being properly operated and maintained. An explanation of the criteria used for selection of the parameter(s), the operating limits, and the monitoring frequency, including how these relate to emission control also shall be submitted to the New York State DEC.

Except as provided in §63.848(1), for dry alumina scrubbers, a device for the measurement of alumina flow shall be installed, monitored and recorded in accordance with the parametric monitoring plan.

Reference Test Method: 4075-TF

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 161: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(g), Subpart LL

Item 161.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Process: BAK

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 161.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall visually inspect the exhaust stack(s) of each control device on a daily basis for evidence of any visible emissions indicating abnormal operation.



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Monitoring Frequency: DAILY
Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/03.
Subsequent reports are due every 6 calendar month(s).

Condition 162: Corrective action procedures
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(h), Subpart LL

Item 162.1:

This Condition applies to Emission Unit: S-00002
Process: BAK

Item 162.2:

If a monitoring device for a primary control device measures an operating parameter outside the limit(s) established pursuant to §63.847(h), or if visible emissions indicating abnormal operation are observed from the exhaust stack of a control device during a daily inspection, the owner/operator shall initiate the corrective action procedures identified in the startup, shutdown, and malfunction plan within 1 hour. Failure to initiate the corrective action procedures within 1 hour or to take the necessary corrective actions to remedy the problem is a violation.

Condition 163: Exceedances
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(i), Subpart LL

Item 163.1:

This Condition applies to Emission Unit: S-00002
Process: BAK

Item 163.2:

If the limit for a given operating parameter associated with monitoring a specific control device is exceeded six times in any semiannual reporting period, then any subsequent exceedance in that reporting period is a violation. For the purpose of determining the number of exceedances, no more than one exceedance shall be attributed in any given 24-hour period.

Condition 164: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(j), Subpart LL

Item 164.1:

The Compliance Certification activity will be performed for:

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Facility DEC ID: 6405800003



Emission Unit: S-00002

Process: BAK

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 164.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator of a new or existing potline or anode bake furnace shall install, operate, and maintain a monitoring device to determine the daily weight of aluminum produced and the weight of green anode material placed in the anode bake furnace. The weight of green anode material may be determined by monitoring the weight of all anodes or by monitoring the number of anodes placed in the furnace and determining an average weight from measurements of a representative sample of anodes.

Monitoring Frequency: DAILY

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

Condition 165: Accuracy and calibration requirements

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(k), Subpart LL

Item 165.1:

This Condition applies to Emission Unit: S-00002

Process: BAK

Item 165.2:

The owner/operator shall submit recommended accuracy requirement to the New York State DEC for review and approval. All monitoring devices required by §63.848 must be certified by the owner/operator to meet the accuracy requirements and must be calibrated in accordance with the manufacturer's instructions.

Condition 166: Alternative operating parameters

Effective between the dates of 09/01/2002 and 09/01/2007



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Applicable Federal Requirement: 40CFR 63.848(l), Subpart LL

Item 166.1:

This Condition applies to Emission Unit: S-00002
Process: BAK

Item 166.2:

The owner/operator may monitor alternative control device operating parameters subject to prior written approval by the New York State DEC.

Condition 167: Performance test reports

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(b), Subpart LL

Item 167.1:

This Condition applies to Emission Unit: S-00002
Process: BAK

Item 167.2:

The owner/operator shall report the results of the initial performance test as part of the notification of compliance status required in §63.850(a)(6). Except as provided in §63.850(d), the owner/operator shall submit a summary of all subsequent performance tests to the New York State DEC on an annual basis.

Condition 168: Startup, shutdown, and malfunction plan and reports

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(c)(1), Subpart LL

Item 168.1:

This Condition applies to Emission Unit: S-00002
Process: BAK

Item 168.2:

The owner/operator shall develop and implement a written plan as described in §63.6(e)(3) that contains specific procedures to be followed for operating the source and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and control systems used to comply with the standard. The plan does not have to be submitted with the permit application or included in the operating permit. The New York State DEC may review the plan upon request. In addition to the information required in §63.6(e)(3), the plan shall include procedures, including corrective actions, to be followed if a monitoring device measures an operating parameter outside the limit(s) established under §63.847(h), or if visible emissions from an exhaust stack indicating abnormal operation of a control device are observed by the owner/operator during the daily inspection required in §63.848(g).

Condition 169: Startup, shutdown, and malfunction plan and reports

Effective between the dates of 09/01/2002 and 09/01/2007

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Permit ID: 6-4058-00003/00365

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Applicable Federal Requirement: 40CFR 63.850(c)(2), Subpart LL

Item 169.1:

This Condition applies to Emission Unit: S-00002
Process: BAK

Item 169.2:

The owner/operator shall develop and implement a written plan as described in §63.6(e)(3) that contains specific procedures to be followed for operating the source and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and control systems used to comply with the standard. The plan does not have to be submitted with the permit application or included in the operating permit. The New York State DEC may review the plan upon request. In addition to the information required in §63.6(e)(3), the plan shall include records of each event as required by §63.10(b) and the owner/operator shall 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)(iv).

Condition 170: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(d), Subpart LL

Item 170.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002
Process: BAK

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

Item 170.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

As required in §63.10(e)(3), the owner/operator shall submit a report (or a summary report) if measured emissions are in excess of the applicable standard. The report shall contain the information specified in §63.10(e)(3)(v) and be submitted semiannually unless quarterly reports are required as a result of excess emissions.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.



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The initial report is due 1/30/03.

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

Condition 171: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(e)(1), Subpart LL

Item 171.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Process: BAK

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 171.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall maintain files of all information (including all reports and notifications) required by §63.10(b) and by Subpart LL. Records must be retained 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 offsite.

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 172: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(e)(2), Subpart LL

Item 172.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Process: BAK

Regulated Contaminant(s):

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Item 172.2:



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Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator may retain records on microfilm, on a computer, on computer disks, on magnetic tape, or on microfiche.

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 173: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(e)(3), Subpart LL

Item 173.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Process: BAK

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 173.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator may report required information on paper or on a labeled computer disc using commonly available and compatible computer software.

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 174: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(e)(4), Subpart LL

Item 174.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

0 Process: BAK

Item 174.2:

Compliance Certification shall include the following monitoring:

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In addition to the general records required by §63.10(b), the owner/operator shall maintain records of the following information:

- 1) Daily production rate of green anode material placed in the anode bake furnace;
- 2) A copy of the startup, shutdown, and malfunction plan;
- 3) Records, such as a checklist or the equivalent, demonstrating that the daily visual inspection of the exhaust stack for each control device has been performed as required in §63.848(g), including the results of each inspection;
- 4) Records documenting the corrective actions taken when the limit(s) for an operating parameter established under §63.847(h) were exceeded, or when visible emissions indicating abnormal operation were observed from a control device stack during a daily inspection required under §63.848(g);
- 5) Records documenting the portion of TF that is measured as particulate matter and the portion that is measured as gaseous when the particulate and gaseous fractions are quantified separately using an approved test method.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 175: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.10(c)(3)

Item 175.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002 Emission Point: S0078
Process: BAK Emission Source: SS078

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

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Item 175.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Control of VOC emissions from this source were shown to be technically infeasible in the RACT analysis submitted to the Department in September of 1998. The Alumina dry scrubber will continue to be operated and reported under the guidelines of 40 CFR 63 Subpart LL for Primary Aluminum Production.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 176: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.10(c)(3)

Item 176.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002 Emission Point: S0078
Process: BAK Emission Source: SS078

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

Item 176.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The NOx RACT Compliance Plan submitted to NYSDEC in 1994 determined that control of NOx is not technically feasible due to the nature and configuration of the anode bake furnace burners. Thus the current equipment configuration is considered RACT. Monitoring consists of re-certification that the fuel used during the previous reporting period was natural gas.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.



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Permit ID: 6-4058-00003/00365

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The initial report is due 1/30/03.

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

Condition 177: Emission Limits for Existing Sources - Paste Production Plants
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.843(b), Subpart LL

Item 177.1:

This Condition applies to Emission Unit: S-00003

Item 177.2:

The owner or operator shall install, operate, and maintain equipment to capture and control POM emissions from each paste production plant.

(1) The emission capture system shall be installed and operated to meet the generally accepted 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 Sec. 63.841 of this part); and

(2) Captured emissions shall be routed through a closed system to a dry coke scrubber.

Condition 178: Initial compliance provisions for paste production plants
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.847(f), Subpart LL

Item 178.1:

This Condition applies to Emission Unit: S-00003

Item 178.2:

Initial compliance with the standards for existing and new paste production plants in §§63.843(b) and 63.844(b) will be demonstrated through site inspection(s) and review of site records by the applicable regulatory authority.

Condition 179: Selection of monitoring parameters - paste production plants
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.847(h)(2), Subpart LL

Item 179.1:

This Condition applies to Emission Unit: S-00003

Item 179.2:

The owner/operator shall determine the operating limits and monitoring frequency for each control device that is to be monitored as required in §63.848(f). For a paste production plant, the owner/operator shall



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specify and provide the basis or rationale for selecting parameters to be monitored and the associated operating limits for the emission control device.

Condition 180: Selection of monitoring parameters - redetermining operating limits
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.847(h)(3), Subpart LL

Item 180.1:

This Condition applies to Emission Unit: S-00003

Item 180.2:

The owner/operator shall determine the operating limits and monitoring frequency for each control device that is to be monitored as required in §63.848(f). The owner/operator may redetermine the upper and/or lower operating limits, as appropriate, based on historical data or other information and submit an application to the New York State DEC to change the applicable limit(s). The redetermined limits shall become effective upon approval by the New York State DEC.

Condition 181: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(f)(2), Subpart LL

Item 181.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00003

Regulated Contaminant(s):

CAS No: 0NY505-00-0 40 CFR 63 SUBPART LL - POM

Item 181.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall install, operate, calibrate, and maintain a continuous parameter monitoring system for each emission control device. The owner/operator shall submit for approval by the New York State DEC a description of the parameter(s) to be monitored, the operating limits, and the monitoring frequency to ensure that the control device is being properly operated and maintained. An explanation of the criteria used for selection of the parameter(s), the operating limits, and the monitoring frequency, including how these relate to emission control also shall be submitted to the New York State

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DEC.

Except as provided in §63.848(1), for dry coke scrubbers, a device for the measurement of air flow shall be installed, monitored and recorded in accordance with the parametric monitoring plan.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 182: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(f)(2), Subpart LL

Item 182.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00003

Regulated Contaminant(s):

CAS No: ONY505-00-0 40 CFR 63 SUBPART LL - POM

Item 182.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall install, operate, calibrate, and maintain a continuous parameter monitoring system for each emission control device. The owner/operator shall submit for approval by the New York State DEC a description of the parameter(s) to be monitored, the operating limits, and the monitoring frequency to ensure that the control device is being properly operated and maintained. An explanation of the criteria used for selection of the parameter(s), the operating limits, and the monitoring frequency, including how these relate to emission control also shall be submitted to the New York State DEC.

Except as provided in §63.848(1), for dry coke scrubbers, a device for the measurement of coke flow shall be installed, monitored and recorded in accordance with the parametric monitoring plan.

Monitoring Frequency: AS REQUIRED - SEE MONITORING



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Facility DEC ID: 6405800003

DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 183: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(g), Subpart LL

Item 183.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00003

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 183.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall visually inspect the exhaust stack(s) of each control device on a daily basis for evidence of any visible emissions indicating abnormal operation.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

Condition 184: Corrective action procedures

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(h), Subpart LL

Item 184.1:

This Condition applies to Emission Unit: S-00003

Item 184.2:

If a monitoring device for a primary control device measures an operating parameter outside the limit(s) established pursuant to §63.847(h), or if visible emissions indicating abnormal operation are observed from the exhaust stack of a control device during a daily inspection, the owner/operator shall initiate the corrective action procedures identified in the startup, shutdown, and malfunction plan within 1 hour. Failure to initiate the corrective action procedures within 1 hour or to take the necessary corrective actions to remedy the problem is a violation.



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Condition 185: Exceedances

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(i), Subpart LL

Item 185.1:

This Condition applies to Emission Unit: S-00003

Item 185.2:

If the limit for a given operating parameter associated with monitoring a specific control device is exceeded six times in any semiannual reporting period, then any subsequent exceedance in that reporting period is a violation. For the purpose of determining the number of exceedances, no more than one exceedance shall be attributed in any given 24-hour period.

Condition 186: Accuracy and calibration requirements

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(k), Subpart LL

Item 186.1:

This Condition applies to Emission Unit: S-00003

Item 186.2:

The owner/operator shall submit recommended accuracy requirement to the New York State DEC for review and approval. All monitoring devices required by §63.848 must be certified by the owner/operator to meet the accuracy requirements and must be calibrated in accordance with the manufacturer's instructions.

Condition 187: Alternative operating parameters

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.848(l), Subpart LL

Item 187.1:

This Condition applies to Emission Unit: S-00003

Item 187.2:

The owner/operator may monitor alternative control device operating parameters subject to prior written approval by the New York State DEC.

Condition 188: Startup, shutdown, and malfunction plan and reports

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(c)(1), Subpart LL

Item 188.1:

This Condition applies to Emission Unit: S-00003



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Item 188.2:

The owner/operator shall develop and implement a written plan as described in §63.6(e)(3) that contains specific procedures to be followed for operating the source and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and control systems used to comply with the standard. The plan does not have to be submitted with the permit application or included in the operating permit. The New York State DEC may review the plan upon request. In addition to the information required in §63.6(e)(3), the plan shall include procedures, including corrective actions, to be followed if a monitoring device measures an operating parameter outside the limit(s) established under §63.847(h), or if visible emissions from an exhaust stack indicating abnormal operation of a control device are observed by the owner/operator during the daily inspection required in §63.848(g).

Condition 189: Startup, shutdown, and malfunction plan and reports
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(c)(2), Subpart LL

Item 189.1:

This Condition applies to Emission Unit: S-00003

Item 189.2:

The owner/operator shall develop and implement a written plan as described in §63.6(e)(3) that contains specific procedures to be followed for operating the source and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and control systems used to comply with the standard. The plan does not have to be submitted with the permit application or included in the operating permit. The New York State DEC may review the plan upon request. In addition to the information required in §63.6(e)(3), the plan shall include records of each event as required by §63.10(b) and the owner/operator shall 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)(iv).

Condition 190: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(d), Subpart LL

Item 190.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00003

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 190.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

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Monitoring Description:

As required in §63.10(e)(3), the owner/operator shall submit a report (or a summary report) if measured emissions are in excess of the applicable standard. The report shall contain the information specified in §63.10(e)(3)(v) and be submitted semiannually unless quarterly reports are required as a result of excess emissions.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

Condition 191: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(e)(1), Subpart LL

Item 191.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00003

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 191.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall maintain files of all information (including all reports and notifications) required by §63.10(b) and by Subpart LL. Records must be retained 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 offsite.

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 192: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(e)(2), Subpart LL



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Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003

Item 192.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00003

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 192.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator may retain records on microfilm, on a computer, on computer disks, on magnetic tape, or on microfiche.

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 193: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(e)(3), Subpart LL

Item 193.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00003

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

Item 193.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator may report required information on paper or on a labeled computer disc using commonly available and compatible computer software.

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 194: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 63.850(e)(4), Subpart LL

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Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



Item 194.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00003

Item 194.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In addition to the general records required by §63.10(b), the owner/operator shall maintain records of the following information:

- 1) A copy of the startup, shutdown, and malfunction plan;
- 2) Records of design information for paste production plant capture systems;
- 3) Records, such as a checklist or the equivalent, demonstrating that the daily visual inspection of the exhaust stack for each control device has been performed as required in §63.848(g), including the results of each inspection;
- 4) Records documenting the corrective actions taken when the limit(s) for an operating parameter established under §63.847(h) were exceeded, or when visible emissions indicating abnormal operation were observed from a control device stack during a daily inspection required under §63.848(g).

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 195: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.10(f)

Item 195.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00003 Emission Point: S0100

Regulated Contaminant(s):

New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



CAS No: 0NY998-00-0 VOC

Item 195.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This source must be operated in such a manner to achieve an overall volatile organic compound (VOC) removal efficiency of at least 81%. For the purposes of determining compliance with this condition emissions of polycyclic organic matter (POM) shall be included in the total VOC emissions from the source.

Lower Permit Limit: 81 percent

Reference Test Method: 18 or 25A and 315

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

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 1/30/03.

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

Condition 196: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.3(b)

Item 196.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00004

Process: M01

Emission Source: SS017

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 196.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions of solid particulates are limited to less than 0.150 grains of particulates per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis. Compliance testing will be conducted at the discretion of the Department.

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Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



Parameter Monitored: PARTICULATES
Upper Permit Limit: 0.15 grains per dscf
Reference Test Method: EPA Method 5
Monitoring Frequency: AS REQUIRED - SEE 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 1/30/03.
Subsequent reports are due every 6 calendar month(s).

Condition 197: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 40CFR 52.21(i)(1), Subpart A

Item 197.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00004
Process: M16

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

Item 197.2:

Compliance Certification shall include the following monitoring:

Capping: Yes
Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
Particulate emissions from this emission source shall not exceed 15 tons during any 12 month period. Source owner must maintain records that demonstrate compliance with this emission limit. Records should include: any stack test reports, the number of hours the spent potliner handling is being performed, the number of hours that the baghouse is not in operation while spent potliner handling is occurring, and information that shows the baghouse is being operated with the manufacturer's specifications for pressure drop and air/cloth ratio.

Upper Permit Limit: 15 tons per year
Reference Test Method: EPA RM 5
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY



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Facility DEC ID: 6405800003

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/03.
Subsequent reports are due every 6 calendar month(s).

Condition 198: Compliance Certification
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.10(c)(1)

Item 198.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00005
Process: PST

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

Item 198.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The emission rate potential of volatile organic compound (VOC) from each emission point in this process shall remain less than 3.0 pounds per hour. A reasonably available control technology (RACT) analysis is not required for emission points with VOC emission rate potentials less than 3.0 pounds per hour at facilities located outside of the Lower Orange County and New York City metropolitan areas.

While unloading pitch from rail cars the vent from the tank receiving the pitch must be vented to the other pitch storage tank which must be empty. The empty tank will in effect be a condenser for the semi-volatile pitch fumes emitted during the pitch rail car unloading. Failure to operate this process in this manner may cause VOC emissions greater than 3.0 pounds per hour.

Reference Test Method: EPA RM 18 or 25A

Monitoring Frequency: AS REQUIRED - SEE 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.



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Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003

The initial report is due 1/30/03.

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

Condition 199: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.4(a)

Item 199.1:

The Compliance Certification activity will be performed for:

Emission Unit: W-00001

Process: WWT

Regulated Contaminant(s):

CAS No: 000074-90-8 HYDROCYANIC ACID

Item 199.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

As required by 6 NYCRR Part 212.4(a) hydrogen cyanide has been issued an environmental rating of A. The emission rate potential of hydrogen cyanide from each emission source in this process shall remain less than 1 pound per hour. Compliance testing shall be conducted upon request from the Department.

Upper Permit Limit: 1.0 pounds per hour

Reference Test Method: EPA Method 18

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 200: Compliance Certification

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable Federal Requirement: 6NYCRR 212.4(a)

Item 200.1:

The Compliance Certification activity will be performed for:

Emission Unit: W-00001

Process: WWT

Regulated Contaminant(s):

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Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003



CAS No: 007664-41-7 AMMONIA

Item 200.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

As required by 6 NYCRR Part 212.4(a) ammonia has been issued an environmental rating of C. The emission rate potential of ammonia from each emission source in this process shall remain less than 10 pounds per hour.

Compliance testing shall be conducted upon request from the Department.

Upper Permit Limit: 10 pounds per hour

Reference Test Method: EPA CTM-027

Monitoring Frequency: AS REQUIRED - SEE MONITORING

DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST

METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY



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: 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 and are not subject to annual compliance certification requirements for Title V permits.

Condition 201: Contaminant List

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable State Requirement: ECL 19-301.

Item 201.1:

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

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CAS No: 0NY505-00-0
Name: 40 CFR 63 SUBPART LL - POM

CAS No: 007664-41-7
Name: AMMONIA

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

CAS No: 000463-58-1
Name: CARBONYL SULFIDE

CAS No: 007782-50-5
Name: CHLORINE

CAS No: 000111-42-2
Name: ETHANOL, 2,2'-IMINOBIS-

CAS No: 068188-85-2
Name: FLUORIDES

CAS No: 000050-00-0
Name: FORMALDEHYDE

CAS No: 0NY100-00-0
Name: HAP

CAS No: 000074-90-8
Name: HYDROCYANIC ACID

CAS No: 007647-01-0
Name: HYDROGEN CHLORIDE

CAS No: 007664-39-3
Name: HYDROGEN FLUORIDE

CAS No: 007439-92-1
Name: LEAD

CAS No: 000067-56-1
Name: METHYL ALCOHOL

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

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



New York State Department of Environmental Conservation

Permit ID: 6-4058-00003/00365

Facility DEC ID: 6405800003

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

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

Condition 202: Unavoidable noncompliance and violations
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable State Requirement: 6NYCRR 201-1.4

Item 202.1:

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

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

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

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

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air



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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 203: Compliance Demonstration

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable State Requirement: 6NYCRR 209.

Item 203.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: S-00001

Process: POT

Emission Unit: S-00002

Process: BAK

Regulated Contaminant(s):

CAS No: 0NY505-00-0 40 CFR 63 SUBPART LL - POM

CAS No: 068188-85-2 FLUORIDES

Item 203.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The more stringent requirements of 40 CFR 63 subpart LL apply to the emissions of Fluorides, Polycyclic Organic Matter (POMs) and opacity at this facility. As long as the facility is in compliance with the requirements in subpart LL, then it is in compliance with the requirements of 6 NYCRR part 209. See subpart LL requirements for monitoring and reporting frequencies.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 204: Emissions other than total fluorides

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable State Requirement: 6NYCRR 209.4



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Item 204.1:

Emissions of air contaminants other than total fluorides from any air contamination source in a primary aluminum reduction plant are regulated by all other applicable Parts of this Subchapter.

Condition 205: Air pollution prohibited

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable State Requirement: 6NYCRR 211.2

Item 205.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

Condition 206: Compliance Demonstration

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable State Requirement: 6NYCRR 212.4(a)

Item 206.1:

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

Emission Unit: A-00001
Process: HMO

Emission Unit: A-00001
Process: HT1

Emission Unit: A-00001
Process: HT2 Emission Source: AF014

Emission Unit: A-00001
Process: HT2 Emission Source: AF015

Emission Unit: A-00001
Process: HT2 Emission Source: AF02A

Emission Unit: A-00001
Process: HT2 Emission Source: AF02B

Regulated Contaminant(s):
CAS No: 007664-39-3 HYDROGEN FLUORIDE

Item 206.2:



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Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

As required by 6 NYCRR 212.4(a), Hydrogen Fluoride has been issued an environmental rating of "B". The emission rate potential of Hydrogen Fluoride from each of these emission sources shall remain less than 10 pounds per hour. Compliance testing shall be conducted upon request from the Department.

Upper Permit Limit: 10 pounds per hour

Reference Test Method: method 4075-TF

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 207: Compliance Demonstration

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable State Requirement: 6NYCRR 212.4(a)

Item 207.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: C-00002

Process: CD2

Emission Unit: M-00001

Emission Unit: M-00002

Emission Unit: C-00001

Process: CD1

Regulated Contaminant(s):

CAS No: 007647-01-0 HYDROGEN CHLORIDE

Item 207.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

As required by 6 NYCRR 212.4(a), Hydrogen Chloride has been issued an environmental rating of "B". The emission

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rate potential of Hydrogen Chloride from each of these emission sources shall remain less than 10 pounds per hour.

Upper Permit Limit: 10 pounds per hour

Reference Test Method: EPA method 26

Monitoring Frequency: AS REQUIRED - SEE MONITORING

DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST

20 METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 208: Compliance Demonstration

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable State Requirement: 6NYCRR 212.5(d)

Item 208.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: S-00001

Process: POT

Emission Unit: S-00002

Process: BAK

Regulated Contaminant(s):

CAS No: 000463-58-1 CARBONYL SULFIDE

CAS No: 000630-08-0 CARBON MONOXIDE

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 208.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Where a source owner can demonstrate to the satisfaction of the commissioner that he will apply best available control technology (BACT), the commissioner may specify a less restrictive permissible emission rate, emission standard or degree of air cleaning for such source than required under this Part provided that the less restrictive requirement is equivalent to that which can be achieved through the application of best available control technology.



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Carbon Monoxide (CO), Carbonyl Sulfide (COS), and Sulfur Dioxide (SO₂) emissions from the anode bake furnace and the potline shall be controlled according to the BACT analysis submitted to the Department July 9, 2001 and approved by Albany staff.

The specification of % sulfur by weight in the coke used at the plant shall be lowered from 3% to 2.5% on an annual average basis rolled monthly. The sulfur content shall be determined from vendor test data for each delivery of coke. The current annual average and any excursions above the limit shall be reported semiannually on a calendar year basis.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: COKE

Parameter Monitored: SULFUR

Upper Permit Limit: 2.5 percent by weight

Monitoring Frequency: MONTHLY

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

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

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

Condition 209: Compliance Demonstration

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable State Requirement: 6NYCRR 227-1.4(a)

Item 209.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: B-00001

Process: OIL

Item 209.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Any person who owns a stationary combustion installation



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(excluding gas turbines), with a total maximum heat input capacity exceeding 250 million Btu per hour shall install, operate in accordance with manufacturer's instructions, and properly maintain, accurate instruments satisfying the criteria in appendix B of title 40, part 60 of the Code of Federal Regulations, or approved by the commissioner on an individual case basis, for continuously monitoring and recording opacity, and when sulfur dioxide continuous monitoring is required by Part 225 of this Title, for continuously monitoring and recording either the percent oxygen or carbon dioxide in the flue gases from such installations at all times that the combustion installation is in service. Where gas is the only fuel burned, monitoring and recording of opacity is not required.

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: Appendix B, 40 CFR 60
Monitoring Frequency: CONTINUOUS
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/02.
Subsequent reports are due every 3 calendar month(s).

Condition 210: Compliance Demonstration
Effective between the dates of 09/01/2002 and 09/01/2007

Applicable State Requirement: 6NYCRR 212.4(a)

Item 210.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: C-00001 Emission Point: I0029
Process: CD1

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

Item 210.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
As required by 6 NYCRR Part 212.4(a) sulfur dioxide (SO₂) has been issued an environmental rating of B. The emission rate potential of sulfur dioxide from each emission source



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in this process shall remain less than 10 pounds per hour.
Compliance testing shall be conducted upon request from
the Department.

Upper Permit Limit: 10.0 pounds per hour

Reference Test Method: EPA RM 6C

Monitoring Frequency: AS REQUIRED - SEE MONITORING

DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 211: Compliance Demonstration

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable State Requirement: 6NYCRR 212.4(a)

Item 211.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: C-00002

Process: CD2

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 211.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

As required by 6 NYCRR Part 212.4(a) sulfur dioxide (SO₂)
has been issued an environmental rating of B. The emission
rate potential of sulfur dioxide from each emission source
in this process shall remain less than 10 pounds per hour.
Compliance testing shall be conducted upon request from
the Department.

Upper Permit Limit: 10.0 pounds per hour

Reference Test Method: EPA RM 6C

Monitoring Frequency: AS REQUIRED - SEE MONITORING

DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 212: Compliance Demonstration

Effective between the dates of 09/01/2002 and 09/01/2007

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Applicable State Requirement: 6NYCRR 212.4(a)

Item 212.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: M-00001

Regulated Contaminant(s):

CAS No: 007782-50-5 CHLORINE

Item 212.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

As required by 6 NYCRR Part 212.4(a) chlorine has been issued an environmental rating of B. The emission rate potential of chlorine from each emission source in this emission unit shall remain less than 10 pounds per hour.

Compliance testing shall be conducted upon request from the Department.

Upper Permit Limit: 10.0 pounds per hour

Reference Test Method: EPA RM 18

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 213: Compliance Demonstration

Effective between the dates of 09/01/2002 and 09/01/2007

Applicable State Requirement: 6NYCRR 212.4(a)

Item 213.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: M-00002

Regulated Contaminant(s):

CAS No: 007782-50-5 CHLORINE

Item 213.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:



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As required by 6 NYCRR Part 212.4(a) chlorine has been issued an environmental rating of B. The emission rate potential of chlorine from each emission source in this emission unit shall remain less than 10 pounds per hour. Compliance testing shall be conducted upon request from the Department.

Upper Permit Limit: 10.0 pounds per hour

Reference Test Method: EPA RM 18

Monitoring Frequency: AS REQUIRED - SEE MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY