



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 6-4058-00178/00001
Effective Date: 11/01/2016 Expiration Date: 10/31/2021

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

Contact: LAURA COLEMEN
ALCOA USA CORP
201 ISABELLA ST
Pittsburgh, PA 15212

Facility: ALCOA USA CORP
PARK AVE EAST
MASSENA, NY 13662

Contact: ROBERT J LENNEY
ALCOA USA CORP
PARK AVE E
MASSENA, NY 13662
(315) 764-4161

Description:
Title V permit for a new corporation operating the for Alcoa Inc primary and secondary aluminum production facilities.

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

Permit Administrator: LAWRENCE R AMBEAU
NYSDEC - REGION 6
317 WASHINGTON ST
WATERTOWN, NY 13601

Authorized Signature: _____ Date: ____ / ____ / ____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

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

Facility Level

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



DEC GENERAL CONDITIONS

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

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, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

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

Item 3.2:

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

Item 3.3

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



submitted prior to actual transfer of ownership.

Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

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

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

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

Condition 5: Submission of application for permit modification or renewal-REGION 6 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

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

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

New York State Department of Environmental Conservation

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Facility DEC ID: 6405800178



Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

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201 ISABELLA ST
PITTSBURGH, PA 15212-5858

Facility: ALCOA USA CORP
PARK AVE EAST
MASSENA, NY 13662

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

Permit Effective Date: 11/01/2016

Permit Expiration Date: 10/31/2021



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6 NYCRR 201-6.4 (a) (7): Fees
- 3 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
- 4 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
- 5 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
- 6 6 NYCRR 201-6.4 (e): Compliance Certification
- 7 6 NYCRR 202-2.1: Compliance Certification
- 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 9 6 NYCRR 215.2: Open Fires - Prohibitions
- 10 6 NYCRR 200.7: Maintenance of Equipment
- 11 6 NYCRR 201-1.7: Recycling and Salvage
- 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 15 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
- 16 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 17 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
- 18 6 NYCRR 202-1.1: Required Emissions Tests
- 19 40 CFR Part 68: Accidental release provisions.
- 20 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 21 6 NYCRR Subpart 201-6: Emission Unit Definition
- 22 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 23 6 NYCRR 201-6.4 (g): Non Applicable requirements
- 24 6 NYCRR 211.1: Air pollution prohibited
- 25 6 NYCRR 212-1.1 (a) (1): Compliance Certification
- 26 6 NYCRR 212-1.6 (a): Compliance Certification
- 27 6 NYCRR 212-2.3 (a): Compliance Certification
- 28 6 NYCRR 212-2.4 (b): Compliance Certification
- 29 6 NYCRR 212-2.4 (b): Compliance Certification
- 30 6 NYCRR 212-3.1 (c) (1): Compliance Certification
- 31 6 NYCRR 212-3.1 (c) (1): Compliance Certification
- 32 6 NYCRR 212-3.1 (c) (3): Compliance Certification
- 33 6 NYCRR 227-2.4 (d): Compliance Certification
- 34 6 NYCRR 231-2.2 (d) (3): Compliance Certification
- 35 6 NYCRR 231-3.2: Compliance Certification
- 36 6 NYCRR 249.3 (a): Compliance Certification
- 37 6 NYCRR 249.3 (a): Compliance Certification
- 38 6 NYCRR 249.3 (a): Compliance Certification
- 39 6 NYCRR Subpart 257-8: Compliance Certification
- 40 40CFR 52.21(i)(1), Subpart A: Compliance Certification
- 41 40CFR 60.40c, NSPS Subpart Dc: Applicability of Subpart Dc General Provisions
- 42 40CFR 63, Subpart A: General Provisions

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- 43 40CFR 63, Subpart LL: Compliance Certification
 - 44 40CFR 63, Subpart LL: Compliance Certification
 - 45 40CFR 63, Subpart LL: Compliance Certification
 - 46 40CFR 63.841, Subpart LL: Incorporation by Reference
 - 47 40CFR 63.847(b), Subpart LL: Compliance Provisions - Test Plan
 - 48 40CFR 63.848(f), Subpart LL: Compliance Certification
 - 49 40CFR 63.848(g), Subpart LL: Compliance Certification
 - 50 40CFR 63.849(a), Subpart LL: Reference test methods for TF and POM emissions
 - 51 40CFR 63.849(a), Subpart LL: Compliance Certification
 - 52 40CFR 63.849(e), Subpart LL: Alternative test methods for TF or POM emissions
 - 53 40CFR 63.850(b), Subpart LL: Compliance Certification
 - 54 40CFR 63.850(d), Subpart LL: Compliance Certification
 - 55 40CFR 63.850(e), Subpart LL: Compliance Certification
 - 56 40CFR 63.1500(b), Subpart RRR: Applicability
 - 57 40CFR 63.1501, Subpart RRR: Compliance Certification
 - 58 40CFR 63.1505(c)(1), Subpart RRR: Compliance Certification
 - 59 40CFR 63.1505(c)(2), Subpart RRR: Compliance Certification
 - 60 40CFR 63.1505(i), Subpart RRR: Compliance Certification
 - 61 40CFR 63.1505(i), Subpart RRR: Compliance Certification
 - 62 40CFR 63.1505(i), Subpart RRR: Compliance Certification
 - 63 40CFR 63.1505(i), Subpart RRR: Compliance Certification
 - 64 40CFR 63.1505(j)(1), Subpart RRR: Compliance Certification
 - 65 40CFR 63.1505(j)(2), Subpart RRR: Compliance Certification
 - 66 40CFR 63.1505(j)(4), Subpart RRR: Compliance Certification
 - 67 40CFR 63.1505(k)(1), Subpart RRR: SAPU PM Emission Limit Calculation
 - 68 40CFR 63.1505(k)(2), Subpart RRR: Compliance Certification
 - 69 40CFR 63.1505(k)(3), Subpart RRR: SAPU Dioxin/Furan Emission Limit Calculation
 - 70 40CFR 63.1510(b), Subpart RRR: Compliance Certification
 - 71 40CFR 63.1510(s), Subpart RRR: Site-specific requirements for secondary aluminum processing units
 - 72 40CFR 63.1511(a), Subpart RRR: Compliance Certification
 - 73 40CFR 63.1511(b), Subpart RRR: Compliance Certification
 - 74 40CFR 63.1511(c), Subpart RRR: Test Methods
 - 75 40CFR 63.1511(e), Subpart RRR: Compliance Certification
 - 76 40CFR 63.1511(f), Subpart RRR: Compliance Certification
 - 77 40CFR 63.1512(e), Subpart RRR: Compliance Certification
 - 78 40CFR 63.1512(h)(2), Subpart RRR: Compliance Certification
 - 79 40CFR 63.1512(j), Subpart RRR: Compliance Certification
 - 80 40CFR 63.1515, Subpart RRR: Compliance Certification
 - 81 40CFR 63.1515(b), Subpart RRR: Compliance Certification
 - 82 40CFR 63.1516, Subpart RRR: Compliance Certification
 - 83 40CFR 63.1517, Subpart RRR: Compliance Certification
 - 84 40CFR 63, Subpart ZZZZ: Applicability
 - 85 40 CFR Part 64: Compliance Certification
- Emission Unit Level**
- 86 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
 - 87 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
 - 88 6 NYCRR Subpart 201-7: Process Permissible Emissions

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EU=A-00003

89 40CFR 63.1505(k)(4), Subpart RRR: SAPU emission limits for individual emission units

EU=A-00003,Proc=FBB

90 40CFR 63.1512(k), Subpart RRR: Performance Test/Compliance Demonstration Requirements and Procedures - Feed/Charge Weight Measurement.

91 40CFR 63.1512(r), Subpart RRR: Compliance Certification

92 40CFR 63.1513(e), Subpart RRR: Equation to Calculate SAPU HCl emissions

93 40CFR 63.1513(e), Subpart RRR: Equation to show compliance with SAPU particulate emission limit

EU=A-00003,Proc=MH2

94 40CFR 63.1511(g), Subpart RRR: Establishment of Monitoring and Operating Parameter Values

EU=B-00002

95 40CFR 63.7500(a)(1), Subpart DDDDD: Compliance Certification

96 40CFR 63.7500(a)(3), Subpart DDDDD: Good air pollution control practices

97 40CFR 63.7501(a), Subpart DDDDD: Affirmative defense

98 40CFR 63.7550(c), Subpart DDDDD: Compliance Certification

99 40CFR 63.7555(a), Subpart DDDDD: Compliance Certification

100 40CFR 63.7560, Subpart DDDDD: Compliance Certification

EU=B-00002,Proc=BLR

101 40CFR 60.48c, NSPS Subpart Dc: Recordkeeping and reporting.

EU=C-00001

102 40CFR 63.1513(d), Subpart RRR: Conversion of D/F measurements to TEQ units

103 40CFR 63.1512(b), Subpart RRR: Compliance Certification

EU=C-00001,EP=I0029,Proc=CD1

104 6 NYCRR 212-2.3 (a): Compliance Certification

105 6 NYCRR 212-2.3 (a): Compliance Certification

EU=C-00001,EP=I0030,Proc=CM1,ES=C0030

106 6 NYCRR 212-3.1 (c) (3): Compliance Certification

EU=C-00002

107 6 NYCRR 212-2.3 (a): Compliance Certification

108 40CFR 52.21(i)(1), Subpart A: Compliance Certification

EU=C-00002,Proc=CD2

109 6 NYCRR 212-2.3 (a): Compliance Certification

110 6 NYCRR 212-2.3 (a): Compliance Certification

EU=M-00001

111 6 NYCRR 212-1.5 (e) (2): Compliance Certification

EU=M-00001,Proc=MHS,ES=M0031



- 112 6 NYCRR 231-11.2 (b): Compliance Certification
- 113 40CFR 63.1505(i), Subpart RRR: Compliance Certification
- 114 40CFR 63.1505(i), Subpart RRR: Compliance Certification
- 115 40CFR 63.1505(i), Subpart RRR: Compliance Certification

EU=M-00002

- 116 6 NYCRR 212-2.3 (a): Compliance Certification
- 117 40CFR 63.1512(o), Subpart RRR: Flux Injection Rate compliance demonstration requirements

EU=P-00001

- 118 6 NYCRR Part 226: Compliance Certification

EU=S-00001,Proc=POT

- 119 6 NYCRR 212-2.5 (b): Compliance Certification
- 120 6 NYCRR 249.3 (a): Compliance Certification
- 121 6 NYCRR 249.3 (a): Compliance Certification
- 122 40CFR 63.843(a)(1)(i), Subpart LL: Compliance Certification
- 123 40CFR 63.843(a)(2)(iv), Subpart LL: Compliance Certification
- 124 40CFR 63.843(a)(3)(i), Subpart LL: Compliance Certification
- 125 40CFR 63.843(e), Subpart LL: Compliance Certification
- 126 40CFR 63.847(d)(1), Subpart LL: Compliance Certification
- 127 40CFR 63.847(d)(3), Subpart LL: Performance Test Requirements - Previous Control Device Tests
- 128 40CFR 63.847(e)(1), Subpart LL: Compliance Certification
- 129 40CFR 63.847(e)(5), Subpart LL: Procedure to determine weights
- 130 40CFR 63.847(e)(6), Subpart LL: Calculation of aluminum production rate
- 131 40CFR 63.847(h)(1), Subpart LL: Selection of monitoring parameters - potlines and anode bake furnaces
- 132 40CFR 63.848(a), Subpart LL: Compliance Certification
- 133 40CFR 63.848(h), Subpart LL: Corrective action procedures
- 134 40CFR 63.848(i), Subpart LL: Exceedances
- 135 40CFR 63.848(j), Subpart LL: Compliance Certification

EU=S-00001,Proc=POT

- 136 40CFR 63.848(k), Subpart LL: Accuracy and calibration requirements
- 137 40CFR 63.849(c), Subpart LL: Definition of potline in Method 14
- 138 40CFR 63.849(d), Subpart LL: Installation of manifolds for potlines subject to Method 14

EU=S-00002,Proc=BAK

- 139 40CFR 63.843(c)(1), Subpart LL: Compliance Certification
- 140 40CFR 63.843(c)(2), Subpart LL: Compliance Certification
- 141 40CFR 63.843(c)(3), Subpart LL: Compliance Certification
- 142 40CFR 63.843(c)(4), Subpart LL: Compliance Certification
- 143 40CFR 63.847(d)(4), Subpart LL: Compliance Certification
- 144 40CFR 63.847(e)(3), Subpart LL: Compliance Certification
- 145 40CFR 63.847(e)(7), Subpart LL: Compliance Certification
- 146 40CFR 63.847(h)(1), Subpart LL: Selection of monitoring parameters - potlines and anode bake furnaces
- 147 40CFR 63.848(c), Subpart LL: Compliance Certification



EU=S-00002,EP=S0078,Proc=BAK,ES=SS078

- 148 6 NYCRR 212-3.1 (c) (1): Compliance Certification
- 149 6 NYCRR 212-3.1 (c) (3): Compliance Certification

EU=S-00003,Proc=GMS

- 150 40CFR 63.843(b), Subpart LL: Emission Limits for Existing Sources -
Paste Production Plants
- 151 40CFR 63.843(b)(4), Subpart LL: Compliance Certification
- 152 40CFR 63.847(h)(2), Subpart LL: Selection of monitoring parameters
- paste production plants

EU=S-00004,Proc=M16

- *153 6 NYCRR Subpart 201-7: Capping Monitoring Condition

EU=S-00005,Proc=PST

- 154 6 NYCRR 212-3.1 (c) (1): Compliance Certification
- 155 40CFR 63.843(d), Subpart LL: Compliance Certification

EU=S-00005,Proc=PUN

- 156 6 NYCRR 212-3.1 (c) (1): Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 157 ECL 19-0301: Contaminant List
- 158 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 159 6 NYCRR Part 209: Compliance Demonstration
- 160 6 NYCRR 209.4: Emissions other than total fluorides
- 161 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 162 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 163 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 164 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 165 6 NYCRR 212-2.3 (b): Compliance Demonstration

Emission Unit Level

EU=C-00001,Proc=CD1

- 166 6 NYCRR 212-2.3 (b): Compliance Demonstration

EU=C-00002,Proc=CD2

- 167 6 NYCRR 212-2.3 (b): Compliance Demonstration

EU=M-00002

- 168 6 NYCRR 212-2.3 (b): Compliance Demonstration

NOTE: * preceding the condition number indicates capping.



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: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10 (b)**
The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.
- Item B: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.2 (a) (4)**
Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.
- Item C: Certification by a Responsible Official - 6 NYCRR 201-6.2 (d) (12)**
Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- Item D: Requirement to Comply With All Conditions - 6 NYCRR 201-6.4 (a) (2)**
The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- Item E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.4 (a) (3)**
This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and



reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Item F: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4 (a) (5)

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

Item G: Property Rights - 6 NYCRR 201-6.4 (a) (6)

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

Item H: Severability - 6 NYCRR 201-6.4 (a) (9)

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

Item I: Permit Shield - 6 NYCRR 201-6.4 (g)

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

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



facility for any violation of applicable requirements prior to or at the time of permit issuance;

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

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

Item J: Reopening for Cause - 6 NYCRR 201-6.4 (i)

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

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



a shorter time period in the case of an emergency.

Item K: Permit Exclusion - ECL 19-0305

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

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

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

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS
SUBJECT TO ANNUAL CERTIFICATIONS AT ALL TIMES**

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements at all times.

**Condition 1: Acceptable Ambient Air Quality
Effective between the dates of 11/01/2016 and 10/31/2021**

Applicable Federal Requirement: 6 NYCRR 200.6

Item 1.1:

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.

Condition 2: Fees
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (7)

Item 2.1:

The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0303.

Condition 3: Recordkeeping and Reporting of Compliance Monitoring
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (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 201-6.2 of Part 201.

Condition 4: Records of Monitoring, Sampling, and Measurement
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (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.



Condition 5: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement: 6 NYCRR 201-6.4 (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 (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 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 above paragraphs (1) or (2) 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) and (2) 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 201-6.2(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. 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. Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

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 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 may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.4(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 6: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement: 6 NYCRR 201-6.4 (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;
 - 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 annual compliance certifications may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). The mailing addresses for the above referenced persons are:

Chief – Stationary Source Compliance Section
USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer
State Office Building
317 Washington Street
Watertown, NY 13601-3787

The address for the BQA is as follows:

NYSDEC
Bureau of Quality Assurance

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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 1/30/2017.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 202-2.1

Item 7.1:

The Compliance Certification activity will be performed for the Facility.

Item 7.2:

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. Statements are to be mailed to: New York State Department of Environmental Conservation, Division of Air Resources, Bureau of Air Quality Planning, 625 Broadway, Albany NY 12233-3251

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due by April 15th for previous calendar year

Condition 8: Recordkeeping requirements
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 8.1:

(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 9: Open Fires - Prohibitions
Effective between the dates of 11/01/2016 and 10/31/2021



Applicable Federal Requirement:6 NYCRR 215.2

Item 9.1:

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

Item 9.2

Per Section 215.3, burning in an open fire, provided it is not contrary to other law or regulation, will be allowed as follows:

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.
- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.
- (d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.
- (e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.
- (f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.
- (g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.
- (h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.
- (i) Prescribed burns performed according to Part 194 of this Title.
- (j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.
- (k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.
- (l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS
SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE**



The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements only if effectuated during the reporting period.

[NOTE: The corresponding annual compliance certification for those conditions not effectuated during the reporting period shall be specified as "not applicable".]

Condition 10: Maintenance of Equipment
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 200.7

Item 10.1:

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

Condition 11: Recycling and Salvage
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 11.1:

Where practical, the owner or operator of an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of the ECL.

Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 12.1:

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.

Condition 13: Exempt Sources - Proof of Eligibility
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 201-3.2 (a)

Item 13.1:

The owner or operator of an emission source or activity that is listed as being exempt may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all records necessary for demonstrating compliance with this Subpart on-site for a period of five years, and make them available to representatives of the department upon request.



Condition 14: Trivial Sources - Proof of Eligibility
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 201-3.3 (a)

Item 14.1:

The owner or operator of an emission source or activity that is listed as being trivial in this Section may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request.

Condition 15: Requirement to Provide Information
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (4)

Item 15.1:

The owner and/or operator 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. Upon request, the permittee shall also furnish to the department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

Condition 16: Right to Inspect
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (8)

Item 16.1:

The department or an authorized representative shall be allowed upon presentation of credentials and other documents as may be required by law to:

(i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart 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 emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and

(iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.



Condition 17: Off Permit Changes
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (f) (6)

Item 17.1:

No permit revision will be required for operating changes 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 provision 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 as required below in advance of the proposed changes within a minimum of seven days. The facility owner or operator, and the department shall attach each such notice to their copy of the relevant permit.

(i) For each such change, the written notification required above shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

(ii) The permit shield described in section 6 NYCRR 201-6.4 shall not apply to any change made pursuant to this paragraph.

Condition 18: Required Emissions Tests
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 18.1:

For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the commissioner may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time.

Condition 19: Accidental release provisions.
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40 CFR Part 68

Item 19.1:

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 Tables 1,2,3 or 4, 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 at the time of permit issuance (if not previously



submitted) one of the following, if such quantities are present:

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:

Risk Management Plan Reporting Center
C/O CSC
8400 Corporate Dr
Carrollton, Md. 20785

Condition 20: Recycling and Emissions Reduction
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement: 40 CFR 82, Subpart F

Item 20.1:

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

The following conditions are subject to annual compliance certification requirements for Title V permits only.

Condition 21: Emission Unit Definition
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 21.1:

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): 222

Item 21.2:

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

Emission Unit: A-00003

Emission Unit Description:

This emission unit contains three processes: HM1, FBB and MH2. Process HM1: Process heaters treat solid aluminum and emit small quantities of process emissions due to

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residuals on the aluminum. Emissions co-mingle with products-of-combustion (poc) from natural gas burners.

Process MH2: Molten aluminum melting and holding furnaces which are permitted to use salt fluxes. All furnaces are reverberatory, center charged. No gas fluxing is done in any furnace.

Process FBB: In-line filter box fluxing units use a mixture of argon and chlorine gas to purify molten aluminum as it is being cast into ingots or rod.

Building(s): 221
222

Item 21.3:

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

Emission Unit: B-00002

Emission Unit Description:

Two (2) 12.533 MMBtu/hr natural gas fired package boilers sharing a common stack and two (2) 3.0 MMBtu/hr natural gas fired package boilers sharing a common stack.

Building(s): 356

Item 21.4:

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 21.5:

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 afterburner) and chip melter #2.

Building(s): 221

Item 21.6:

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

Emission Unit: D-00001

Emission Unit Description:

Miscellaneous point sources.

Building(s): 220



222

Item 21.7:

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

Emission Unit: F-00001

Emission Unit Description:

Alcoa Fabricating and Extrusion (AFE) fugitives.

Building(s): 220

222

Item 21.8:

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. Furnaces charge molten aluminum, uniform, non-uniform and clean scrap, alloying ingredients and salt. No gas fluxing is done in any furnace.

Building(s): 221

Item 21.9:

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, individually or not at all in the case of an inerted filterbox, however, only one filter box is fluxing at any time since there is only one casting apparatus per complex.

Building(s): 221

Item 21.10:

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 21.11:

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

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prebake-1 (CWPB-1) as described in the definitions section of EPA's Primary Aluminum NESHAP regulations.

Building(s): 401

Item 21.12:

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 21.13:

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): 351
354
354C

Item 21.14:

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
351
354B
354C
378
380
435
440A
440E
440H
441
441C
446A
446B
446C
469

Item 21.15:

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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 21.16:

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 NESHAP regulations).

Condition 22: Progress Reports Due Semiannually
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (d) (4)

Item 22.1:

Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by the department. 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.

Condition 23: Non Applicable requirements
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (g)

Item 23.1:

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.

6 NYCRR 212-2.4 (b)

Emission Unit: M00001

Reason: This emission unit will be complying with the particulate matter (PM) emission limits contained in the Secondary Aluminum Production NESHAP (40 CFR 63 Subpart RRR) and thus is exempt from the PM limits codified at 6

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NYCRR Part 212.4(c) as allowed for at 6 NYCRR Part 212.5(d).

6 NYCRR 212-2.4 (b)

Emission Unit: M00002

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

6 NYCRR 212-2.4 (b)

Emission Unit: A00003 Process: MH2

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

6 NYCRR 212-3.1 (f)

Reason: Emission Unit: F00001 and S00003 Emission Point: S0100 Process: GMS Source: SS100

The emissions of volatile organic compounds (VOC) from the Greenmill Petroleum Coke Dry Scrubber (Emission Unit - S-00003; Emission Source - SS100) are less than 3.0 lb/hr. Therefore the reasonably available control technology

(RACT) requirements for VOC contained in 6 NYCRR Part 212.10(f) do not apply to this emission source. Emissions of polycyclic organic matter (POM) are not considered VOC for the purposes of this RACT determination.

Condition 24: Air pollution prohibited
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 211.1

Item 24.1:

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 25: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021



Applicable Federal Requirement:6 NYCRR 212-1.1 (a) (1)

Item 25.1:

The Compliance Certification activity will be performed for the Facility.

Item 25.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The requirements of 6 NYCRR Part 212, Process Operations, were revised in 2015 and facilities with process emissions are required to comply with the revised requirements at the time of applying for a permit. The facility will conduct a site-wide evaluation of all process emissions and confirm compliance with all applicable portions of 6 NYCRR Part 212 within 180 days following the issuance of this permit.

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 26: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 212-1.6 (a)

Item 26.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00001
Process: HMO

Emission Unit: A-00003

Emission Unit: C-00001

Emission Unit: C-00002

Emission Unit: M-00001

Emission Unit: M-00002

Emission Unit: S-00004

Emission Unit: S-00005
Process: PST

Emission Point: S0088

Emission Unit: S-00005
Process: PST

Emission Point: S0089

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Emission Unit: S-00005
Process: PUN

Emission Point: S0073

Emission Unit: S-00005
Process: PUN

Emission Point: S0077

Emission Unit: S-00005
Process: PUN

Emission Point: S073A

Item 26.2:

Compliance Certification shall include the following monitoring:

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

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.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2017.

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

Condition 27: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 212-2.3 (a)

Item 27.1:

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):
CAS No: 007446-09-5 SULFUR DIOXIDE
CAS No: 000630-08-0 CARBON MONOXIDE

Item 27.2:

Compliance Certification 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. 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 2.5% on an annual average basis rolled monthly. The sulfur content shall be determined from vendor test data for each lot of coke received for processing. 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 CONTENT
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 60 days after the reporting period.
The initial report is due 3/1/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 28: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement: 6 NYCRR 212-2.4 (b)

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Item 28.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: ONY075-00-0 PARTICULATES

Item 28.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

All emission sources (other than exempt and trivial activities) that employ control devices to limit particulate emissions, shall be monitored and maintained according to the Operation and Maintenance (O & M) plan 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. Monitoring parameter measurements made outside the normal operating ranges will trigger additional reporting according to the O&M Plan. Records shall be maintained for a minimum of five years.

Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 29: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 212-2.4 (b)

Item 29.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00001

Process: HMO

Emission Unit: A-00003

Process: HM1

Emission Unit: C-00001

Emission Unit: C-00002

Emission Unit: S-00002

Process: BAK



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Emission Unit: S-00003
Process: ANC

Emission Point: S0101

Emission Unit: S-00003
Process: GMS

Emission Point: S0100

Emission Unit: S-00003
Process: GMS

Emission Point: S0101

Emission Unit: S-00004

Emission Unit: S-00005
Process: PUN

Emission Unit: S-00005
Process: PUN

Emission Point: S0088

Emission Unit: S-00005
Process: PUN

Emission Point: S0089

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

Item 29.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

No person will cause or allow emissions of solid particulates, with an environmental rating of B or C, that exceed 0.050 grains per dry standard cubic foot of exhaust gas. Stack testing will be conducted on these or similar sources to determine compliance upon the request of the Department.

Upper Permit Limit: 0.05 grains per dscf

Reference Test Method: epa method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 30: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 212-3.1 (c) (1)

Item 30.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

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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

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

Item 30.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission rate potential of oxides of nitrogen (NOx) from each process and emission point listed above shall remain less than 3.0 pounds per hour. A reasonably available control technology (RACT) analysis is not required for emission points with NOx 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.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 3.0 pounds per hour

Reference Test Method: EPA RM 7E

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 31: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 212-3.1 (c) (1)

Item 31.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00003 Emission Point: I0047



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Emission Unit: F-00001

Emission Unit: S-00005

Process: PUN

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 31.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission rate potential of Volatile Organic Compounds (VOCs) from each process and emission point listed above 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.

Parameter Monitored: VOC

Upper Permit Limit: 3.0 pounds per hour

Reference Test Method: EPA RM 18 or equivalent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 32: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 212-3.1 (c) (3)

Item 32.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00001

Process: HMO

Emission Source: AI043

Emission Unit: A-00001

Process: HMO

Emission Source: AI046

Emission Unit: A-00003

Process: HM1

Emission Source: AI047

Emission Unit: A-00003

Process: MH2

Emission Source: M004A



Emission Unit: C-00002 Process: CD2	Emission Source: C0044
Emission Unit: C-00002 Process: CM2	Emission Source: C0045
Emission Unit: M-00001 Process: MHS	Emission Source: M0031
Emission Unit: M-00001 Process: MHS	Emission Source: M003A
Emission Unit: M-00001 Process: MHS	Emission Source: M003C
Emission Unit: M-00001 Process: MHS	Emission Source: M024D
Emission Unit: M-00001 Process: MHS	Emission Source: M024F
Regulated Contaminant(s): CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Low NOx burners are used on the above listed sources. Low NOx burners have been determined to meet the NOx RACT requirements of 6 NYCRR Part 212.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 33: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement: 6 NYCRR 227-2.4 (d)

Item 33.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: B-00002 Process: BLR	
Regulated Contaminant(s): CAS No: 0NY210-00-0	OXIDES OF NITROGEN

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Item 33.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a small boiler, small combustion turbine, or small internal combustion engine must perform an annual tune-up of their equipment. This tune-up should be performed in accordance with the requirements of the DAR-5 guidance document. Records of each tune-up must be kept on-site for a minimum of five years.

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 34: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 34.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: C-00002

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 34.2:

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. Compliance testing shall be conducted upon request from the Department.

Upper Permit Limit: 9.1 pounds per hour

Reference Test Method: EPA Method 25A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

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Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 35: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 231-3.2

Item 35.1:

The Compliance Certification activity will be performed for the Facility.

Item 35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Under the requirements of 6 NYCRR Part 231, the Alcoa USA Facility (DEC ID# 6405800178) and the Arconic facility (DEC ID# 6405800003) will be treated as one facility. Any subsequent modifications at either facility will be considered against the emissions from both facilities together as one.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 36: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 249.3 (a)

Item 36.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: S-00002

Process: BAK

Regulated Contaminant(s):

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

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The current emission source configuration is considered BART for emissions of PM-10. The current emissions of 24 tons per year is the emission limit effective January 1, 2014. Testing shall be completed under an approved



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protocol within 6 months after the emission limit effective date above. Emission factors established during the stack test shall be used to calculate emissions on an annual basis rolled monthly. Monitoring of the control device is accomplished under the requirements of the primary aluminum MACT within Alcoa's Title V permit and also satisfies CAM requirements.

Upper Permit Limit: 24 tons per year
Reference Test Method: EPA Method 201A
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 37: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 249.3 (a)

Item 37.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: S-00002
Process: BAK

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

Item 37.2:
Compliance Certification shall include the following monitoring:

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

Upper Permit Limit: 203 tons per year
Reference Test Method: EPA Method 201A
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

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Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 38: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement: 6 NYCRR 249.3 (a)

Item 38.1:

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

Emission Unit: S-00001

Emission Unit: S-00002

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 38.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The specification of % sulfur by weight in the coke used
t the plant shall be 2.5% on an annual average
basis
rolled monthly. This 2.5% limit is approved as the BART
limit for sulfur emissions for these two emission
units.
The sulfur content shall be determined from vendor test
data for each lot of coke received for processing.
The
current annual average and any excursions above the limit
shall be reported semiannually on a calendar year basis.

Process Material: COKE

Parameter Monitored: SULFUR CONTENT

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 60 days after the reporting period.

The initial report is due 3/1/2017.

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

Condition 39: Compliance Certification

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Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR Subpart 257-8

Item 39.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 068188-85-2 FLUORIDES

Item 39.2:

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. 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 and it's amendments.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 40: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 40.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: C-00001

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

Item 40.2:

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. Compliance testing shall be conducted upon request from the Department.

Upper Permit Limit: 5.6 pounds per hour

Reference Test Method: Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 41: Applicability of Subpart Dc General Provisions
Effective between the dates of 11/01/2016 and 10/31/2021**

Applicable Federal Requirement:40CFR 60.40c, NSPS Subpart Dc

Item 41.1:

This Condition applies to:

Emission Unit: B00002
Process: BLR

Item 41.2:

For any emission sources that are subject to the applicable General Provisions of 40 CFR 60 Subpart Dc, the facility owner is responsible for reviewing these general provisions in detail and complying with all applicable technical, administrative and reporting requirements.

**Condition 42: General Provisions
Effective between the dates of 11/01/2016 and 10/31/2021**

Applicable Federal Requirement:40CFR 63, Subpart A

Item 42.1:

This Condition applies to:

Emission Unit: A00003
Process: FBB

Emission Unit: A00003



Process: MH2

Emission Unit: C00001

Emission Unit: C00002

Emission Unit: M00001

Emission Unit: M00002

Emission Unit: S00001

Emission Unit: S00002

Emission Unit: S00003

Item 42.2:

This emission source is subject to the applicable provisions of 40 CFR 63 Subpart A. The facility owner is responsible for complying with all applicable technical, administrative and reporting requirements.

Condition 43: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63, Subpart LL

Item 43.1:

The Compliance Certification activity will be performed for the Facility.

Item 43.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If you own or operate a new or existing primary aluminum reduction affected source, you must comply with the requirements of paragraphs (a)(1) through (8) and (b)(1) through (4) of this section during periods of startup for each affected potline.

(1) Develop a potline startup schedule before starting up the potline.

(2) Keep records of the number of pots started each day.

(3) Inspect potlines daily and adjust pot parameters to their optimum levels, as specified in the operating plan described in paragraph (b)(4) of this section, including, but not limited to: alumina addition rate, exhaust air flow rate, cell voltage, feeding level, anode current and liquid and solid bath levels.



(4) Prepare a written operating plan to minimize emissions during startup to include, but not limited to, the requirements in (b)(1) through (3) of this section. The operating plan must include a specified high temperature limit for pots that will trigger corrective action.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 44: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63, Subpart LL

Item 44.1:

The Compliance Certification activity will be performed for the Facility.

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If you own or operate a new or existing primary aluminum reduction affected source, you must comply with the requirements of paragraphs (a)(1) through (8) of this section during periods of operation other than startup.

(1) Ensure the potline scrubbers and exhaust fans are operational at all times.

(2) Ensure that the primary capture and control system is operating at all times.

(3) Hood covers should be replaced as soon as possible after each potroom operation.

(4) Inspect potlines daily and perform the work practices specified in paragraphs (a)(4)(i) through (iii) of this section.

(i) Identify unstable pots as soon as practicable but in no case more than 12 hours from the time the pot became unstable;

(ii) Reduce cell temperatures to as low as practicable, and follow the written operating plan described in

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paragraph (b)(4) of this section if the cell temperature exceeds the specified high temperature limit; and

(iii) Reseal pot crusts that have been broken as often and as soon as practicable.

(5) Ensure that hood covers fit properly and are in good condition.

(6) If the exhaust system is equipped with an adjustable damper system, the hood exhaust rate for individual pots must be increased whenever hood covers are removed from a pot, provided that the exhaust system will not be overloaded by placing too many pots on high exhaust.

(7) Dust entrainment must be minimized during material handling operations and sweeping of the working aisles.

(8) Only tapping crucibles with functional aspirator air return systems (for returning gases under the collection hooding) can be used, unless the regulatory authority approves an alternative tapping crucible.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 45: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63, Subpart LL

Item 45.1:

The Compliance Certification activity will be performed for the Facility.

Item 45.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

At all times, the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the

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Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records and inspection of the source.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 46: Incorporation by Reference
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.841, Subpart LL

Item 46.1:

This Condition applies to:

Emission Unit: S00001

Emission Unit: S00002

Emission Unit: S00003

Item 46.2:

(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 (Dioctyl 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:

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Industrial telephone (1) Customer Service Department, American Conference of Governmental Hygienists (ACGIH), 1330 Kemper Meadow Drive, Cincinnati, Ohio 45240, 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.

**Condition 47: Compliance Provisions - Test Plan
Effective between the dates of 11/01/2016 and 10/31/2021**

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

Item 47.1:

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;

(5) 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 48: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021**

Applicable Federal Requirement:40CFR 63.848(f), Subpart LL

Item 48.1:

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

Emission Unit: S-00001
Process: POT

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Emission Unit: S-00002
Process: BAK

Emission Unit: S-00003
Process: GMS

Regulated Contaminant(s):
CAS No: 068188-85-2 FLUORIDES

Item 48.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall install, operate, calibrate, and maintain a continuous parameter monitoring system for each emission control device. The owner or operator shall submit for approval by the regulatory authority 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 regulatory authority. Except as provided in paragraph (1) of this section, the following monitoring devices shall be installed:

- (1) For dry alumina scrubbers, devices for the measurement of alumina flow and air flow;
- (2) For dry coke scrubbers, devices for the measurement of coke flow and air flow;
- (3) For wet scrubbers as the primary control system, devices for the measurement of water flow and air flow;
- (4) For electrostatic precipitators, devices for the measurement of voltage and secondary current; and
- (5) For wet roof scrubbers for secondary emission control:
 - (i) A device for the measurement of total water flow; and
 - (ii) The owner or operator shall inspect each control device at least once each operating day to ensure the control device is operating properly and record the



results of each inspection.

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 49: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement: 40CFR 63.848(g), Subpart LL

Item 49.1:

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

Emission Unit: S-00003
Process: GMS

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

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an existing affected source that is equipped with a control device and is subject to a PM limit shall:

- (1) Install and operate a bag leak detection system in accordance with paragraph (f)(6) of this section;
or
- (2) Install and operate a PM CEMS in accordance with paragraph (f)(7) of this section; or
- (3) Visually inspect the exhaust stack(s) of each fabric filter using Method 22 on a twice daily basis (at least 4 hours apart) for evidence of any visible emissions indicating abnormal operations and, must initiate corrective actions within 1 hour of a visible emissions inspection that indicates abnormal operation. Corrective actions shall include, at a minimum, isolating, shutting down and conducting an internal inspection of the baghouse compartment that is the source of the visible emissions that indicate abnormal operations.

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 50: Reference test methods for TF and POM emissions
Effective between the dates of 11/01/2016 and 10/31/2021**

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

Item 50.1:

This Condition applies to:

Emission Unit: S00001
Process: POT

Emission Unit: S00002
Process: BAK

Item 50.2:

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
- 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 51: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021**

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

Item 51.1:

The Compliance Certification activity will be performed for the Facility.

Item 51.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall use the following reference



methods to determine compliance with the applicable emission limits for TF, POM, PM, nickel, arsenic, mercury, and PCB 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
- 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. Method 315 need not be set up as required in the method. Instead, when using Method 14A, replace the Method 14A monitor cassette filter with the filter specified by Method 315. Recover and analyze the filter according to Method 315. When using Method 14, test at ambient conditions, do not heat the filter and probe, and do not analyze the back half of the sampling train;
- (a)(8) Method 5 in appendix A to part 60 of this chapter or an approved alternative method for the concentration of PM where stack or duct emissions are sampled;
- (a)(9) Method 17 and Method 14 or Method 14A in appendix A to part 60 of this chapter or an approved alternative method for the concentration of PM where emissions are sampled from roof monitors not employing wet roof scrubbers. Method 17 need not be set up as required in the method. Instead, when using Method 14A, replace the Method 14A monitor cassette filter with the filter specified by Method 17. Recover and analyze the filter according to Method 17. When using Method 14, test at ambient conditions, do not heat the filter and probe, and do not analyze the back half of the sampling train;
- (a)(10) Method 29 in appendix A to part 60 of this chapter or an approved alternative method for the concentration of mercury, nickel and arsenic where stack or duct emissions are sampled;
- (a)(11) Method 29 and Method 14 or Method 14A in appendix A to part 60 of this chapter or an approved alternative method for the concentration of nickel and arsenic where emissions are sampled from roof monitors not employing wet



roof scrubbers. Method 29 need not be set up as required in the method. Instead, replace the Method 14A monitor cassette filter with the filter specified by Method 29. Recover and analyze the filter according to Method 29. When using Method 14, test at ambient conditions, do not heat the filter and probe, and do not analyze the back half of the sampling train;

(a)(12) Method 22 in Appendix A to part 60 of this chapter or an approved alternative method for determination of visual emissions;

(a)(13) Method 428 of the California Air Resources Board (incorporated by reference; see §63.14) for the measurement of PCB where stack or duct emissions are sampled; and

(a)(14) Method 428 of the California Air Resources Board (incorporated by reference; see §63.14) and Method 14 or Method 14A in appendix A to part 60 of this chapter or an approved alternative method for the concentration of PCB where emissions are sampled from roof monitors not employing wet roof scrubbers.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 52: Alternative test methods for TF or POM emissions
Effective between the dates of 11/01/2016 and 10/31/2021**

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

Item 52.1:

This Condition applies to:

Emission Unit: S00001
Process: POT

Emission Unit: S00002
Process: BAK

Item 52.2:

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:

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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 53: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.850(b), Subpart LL

Item 53.1:

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

Emission Unit: S-00003
Process: GMS

Item 53.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Within 60 days after the date of completing each performance test (as defined in §63.2) required by this subpart, you must submit the results of the performance tests following the procedure specified in either paragraph (b)(1) or (b)(2) of this section.

(1) For data collected using test methods supported by the EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT Web site (<http://www.epa.gov/ttn/chief/ert/index.html>) at the time of the test, you must submit the results of the performance test to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI). CEDRI can be accessed through the EPA's Central Data Exchange (CDX) (https://cdx.epa.gov/epa_home.asp). Performance test data must be submitted in a file format generated through the use of the EPA's ERT. Alternatively, you may submit performance test data in an electronic file format consistent with the extensible markup language (XML) schema listed on the EPA's ERT Web site once the XML schema is available. If you claim that some of the performance test information being submitted is confidential business information (CBI), you must submit a complete file generated through the use of the EPA's ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT Web site, including

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information claimed to be CBI, on a compact disc, flash drive, or other commonly used electronic storage media to the EPA. The electronic media must be clearly marked as CBI and mailed to U.S. EPA/OAQPS/CORE CBI Office, Attention: Group Leader, Measurement Policy Group, MD C404-02, 4930 Old Page Rd., Durham, NC 27703. The same ERT or alternate file with the CBI omitted must be submitted to the EPA via the EPA's CDX as described earlier in this paragraph.

(2) For data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT Web site at the time of the test, you must submit the results of the performance test to the Administrator at the appropriate address listed in §63.13.

(3) For data collected which requires summation of results from both ERT and non-ERT supported test methods in order to demonstrate compliance with an emission limit, you must submit the results of the performance test(s) used to demonstrate compliance with that emission limit to the Administrator at the appropriate address listed in §63.13.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 54: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.850(d), Subpart LL

Item 54.1:

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

Emission Unit: S-00003
Process: GMS

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

Item 54.2:

Compliance Certification shall include the following monitoring:

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In addition to the information required under §63.10 of the General Provisions, the owner or operator must provide semiannual reports containing the information specified in paragraphs (d)(1) and (2) of this section to the Administrator or designated authority:

(d)(1) Excess emissions report. As required by §63.10(e)(3), the owner or operator must submit a report (or a summary report) if measured emissions are in excess of the applicable standard. The report must 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.

(d)(2) If there was a malfunction during the reporting period, the owner or operator must submit a report that includes the number, duration and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with §§63.843(f) and 63.844(f), including actions taken to correct a malfunction.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 55: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.850(e), Subpart LL

Item 55.1:

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

Emission Unit: S-00003

Process: GMS

Item 55.2:



Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall maintain files of all information (including all reports and notifications) required by §63.10(b) and by this subpart.

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

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

(3) The owner or operator may report required information on paper or on a labeled computer disc using commonly available and compatible computer software; and

(4) In addition to the general records required by §63.10(b), the owner or operator shall maintain records of the following information:

(i) Daily production rate of aluminum;

(ii) Daily production rate of green anode material placed in the anode bake furnace;

(iii) [Reserved]

(iv) Records of design information for paste production plant capture systems;

(v) Records of design information for an alternative emission control device for a paste production plant;

(vi) Records supporting the monitoring of similar potlines demonstrating that the performance of similar potlines is the same as or better than that of potlines sampled by manual methods;

(vii) Records supporting a request for reduced sampling of potlines;

(viii) Records supporting the correlation of emissions measured by a continuous emission monitoring system to emissions measured by manual methods and the derivation of



the alternative emission limit derived from the measurements;

(ix) The current implementation plan for emission averaging and any subsequent amendments;

(x) Records, such as a checklist or the equivalent, demonstrating that the daily inspection of a potline with wet roof scrubbers for secondary emission control has been performed as required in §63.848(f)(5)(ii), including the results of each inspection;

(xi) 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;

(xii) For a potline equipped with an HF continuous emission monitor, records of information and data required by §63.10(c);

(xiii) Records documenting the corrective actions taken when the limit(s) for an operating parameter established under §63.847(h) were exceeded, when visible emissions indicating abnormal operation were observed from a control device stack during a daily inspection required under §63.848(g), or when a problem was detected during the daily inspection of a wet roof scrubber for potline secondary control required in §63.848(f)(5)(ii);

(xiv) Records documenting any POM data that are invalidated due to the installation and startup of a cathode;

(xv) 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;

(xvi) Records of the occurrence and duration of each malfunction of operation (i.e. process equipment) or the air pollution control equipment and monitoring equipment; and

(xvii) Records of actions taken during periods of malfunction to minimize emissions in accordance with §§63.843(f) and 63.844(f), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 56: Applicability
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 56.1:

The requirements of this subpart apply to the following affected sources, located at a secondary aluminum production facility that is a major source of hazardous air pollutants (HAPs) as defined in 40 CFR Part 63.2:

- (1) Each new and existing aluminum scrap shredder;
- (2) Each new and existing thermal chip dryer;
- (3) Each new and existing scrap dryer/delacquering kiln/decoating kiln;
- (4) Each new and existing group 2 furnace;
- (5) Each new and existing sweat furnace;
- (6) Each new and existing dross-only furnace;
- (7) Each new and existing rotary dross cooler; and
- (8) Each new and existing secondary aluminum processing unit.

Condition 57: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.1501, Subpart RRR

Item 57.1:

The Compliance Certification activity will be performed for the Facility.

Item 57.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

- (a) An affected source constructed before February 11, 1999, must comply with the requirements of this subpart by March 24, 2003, except as provided in paragraphs (b) and (c).
- (b) The owner or operator of an affected source constructed before February 14, 2012, must comply with the following requirements of this subpart by March 16, 2016: §63.1505(k) introductory text, (k)(1) through (k)(5),



other than the emission standards for HF in (k)(2); §63.1506 (a)(1), (c)(1), (g)(5), (k)(3), (m)(4), (m)(7), (n)(1); §63.1510 (b)(5), (b)(9), (d)(2), (d)(3), (f)(1)(ii), (i)(4), (j)(4), (n)(1), (o)(1), (o)(1)(ii), (s)(2)(iv), (t) introductory text, (t)(2)(i), (t)(2)(ii), (t)(4), (t)(5); §63.1511(a) introductory text, (b) introductory text, (b)(1), (b)(3), (b)(6), (c)(9), (g)(5); §63.1512(e)(1), (e)(2), (e)(3), (h)(2), (j), (j)(1)(i), (j)(2)(i), (o) introductory text, (o)(1), (o)(3), (p)(2); §63.1513 (b)(1), (e)(1), (e)(2), (e)(3), (f); §63.1516 (b) introductory text, (b)(2)(vii), (b)(3)(i); §63.1517(b)(1)(iii), (b)(4)(ii), (b)(14), (b)(19).

(c) The owner or operator of an affected source constructed before February 14, 2012, must comply with the following requirements of this subpart by September 18, 2017: §63.1505(i)(4) and (k)(2) emission standards for HF; §63.1512(e)(4) through (7) requirements for testing existing uncontrolled group 1 furnaces (that is, group 1 furnaces without add-on air pollution control devices); and §63.1514 requirements for change of furnace classification.

(d) An affected source that commenced construction or reconstruction after February 11, 1999 but before February 14, 2012 must comply with the requirements of this subpart by March 24, 2000 or upon startup, whichever is later, except as provided in paragraphs (b), (c), (e), and (f) of this section.

(e) The owner or operator of an affected source that commences construction or reconstruction after February 14, 2012, must comply with all the requirements of this subpart by September 18, 2015 or upon startup, whichever is later.

(f) The owner or operator of any affected source which is constructed or reconstructed after February 11, 1999, but before February 14, 2012 at any existing aluminum die casting facility, aluminum foundry, or aluminum extrusion facility which otherwise meets the applicability criteria set forth in §63.1500 must comply with the requirements of this subpart by March 24, 2003 or upon startup, whichever is later, except as provided in paragraphs (b) and (c) of this section. The owner or operator of any affected source which is constructed or reconstructed after February 14, 2012, at any existing aluminum die casting facility, aluminum foundry, or aluminum extrusion facility which otherwise meets the applicability criteria set forth in §63.1500 must comply with the requirements by September 18, 2015 or upon startup, whichever is later.

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 58: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.1505(c)(1), Subpart RRR

Item 58.1:

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

Emission Unit: C-00001
Process: CD1

Emission Unit: C-00002
Process: CD2

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

Item 58.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

On and after the compliance date established by §63.1501, the owner or operator of a thermal chip dryer must not discharge or cause to be discharged to the atmosphere emissions in excess of 0.40 kilogram (kg) of THC, as propane, per megagram (Mg) (0.80 lb of THC, as propane, per ton) of feed/charge from a thermal chip dryer at a secondary aluminum production facility that is a major source. This limit is applicable at all times, including periods of startup and shutdown. Compliance testing shall be conducted upon request from the Department.

Upper Permit Limit: 0.40 kilograms THC, as propane per
Mg

Reference Test Method: EPA Method 25a

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 59: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021



Applicable Federal Requirement:40CFR 63.1505(c)(2), Subpart RRR

Item 59.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: C-00001

Process: CD1

Emission Unit: C-00002

Process: CD2

Regulated Contaminant(s):

CAS No: 001746-01-6	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
CAS No: 040321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN
CAS No: 003268-87-9	1,2,3,4,6,7,8,9-OCTACHLORODIBENZODIOXIN
CAS No: 019408-74-3	1,2,3,7,8-HEXACHLORODIBENZO-P-DIOXIN
CAS No: 035822-46-9	1,2,3,4,6,7,8-HEPTACHLORODIBENZODIOXIN
CAS No: 039001-02-0	OCTACHLORODIBENZOFURANS, TOTAL
CAS No: 039227-28-6	1,2,3,4,7,8-HEXACHLORODIBENZO[B,E][1,4]DIOXIN
CAS No: 055673-89-7	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN
CAS No: 057117-31-4	2,3,4,7,8-PENTACHLORODIBENZOFURAN
CAS No: 057117-41-6	1,2,3,7,8-PENTACHLORODIBENZOFURAN
CAS No: 057117-44-9	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN
CAS No: 057653-85-7	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN
CAS No: 060851-34-5	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN
CAS No: 067562-39-4	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN
CAS No: 070648-26-9	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN
CAS No: 072918-21-9	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN
CAS No: 051207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN

Item 59.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

On and after the compliance date established by §63.1501, the owner or operator of a thermal chip dryer must not discharge or cause to be discharged to the atmosphere emissions in excess of 2.50 micrograms (μg) of D/F TEQ per Mg (3.5×10^{-5} gr per ton) of feed/charge from a thermal chip dryer at a secondary aluminum production facility that is a major or area source. This limit is applicable at all times, including periods of startup and shutdown.

Compliance testing shall be performed upon request from the Department.

Upper Permit Limit: 2.5 micrograms of D/F TEQ per Mg

Reference Test Method: EPA Method 23

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING



New York State Department of Environmental Conservation

Permit ID: 6-4058-00178/00001

Facility DEC ID: 6405800178

DESCRIPTION
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 60: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 60.1:

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

Emission Unit: A-00001

Emission Unit: A-00003

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

Item 60.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The owner or operator of a group 1 furnace must use the limits in this paragraph to determine the emission standards for a SAPU.

(5) The owner or operator of a group 1 furnace at a secondary aluminum production facility that is a major source must not discharge or cause to be discharged to the atmosphere visible emissions in excess of 10 percent opacity from any PM add-on air pollution control device if a COM is chosen as the monitoring option.

Parameter Monitored: OPACITY
Upper Permit Limit: 10 percent
Reference Test Method: EPA Method 9
Monitoring Frequency: DAILY
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 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 61: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

New York State Department of Environmental Conservation

Permit ID: 6-4058-00178/00001

Facility DEC ID: 6405800178



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

Item 61.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00001

Emission Unit: A-00003

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 61.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or operator of a group 1 furnace must use the limits in this paragraph to determine the emission standards for a SAPU.

(1) 0.20 kg of PM per Mg (0.40 lb of PM per ton) of feed/charge from a group 1 furnace, that is not a melting/holding furnace processing only clean charge, at a secondary aluminum production facility that is a major source;

Upper Permit Limit: 0.40 pounds per ton

Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 62: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 62.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00001

Emission Unit: A-00003

Regulated Contaminant(s):

CAS No: 007647-01-0 HYDROGEN CHLORIDE

New York State Department of Environmental Conservation

Permit ID: 6-4058-00178/00001

Facility DEC ID: 6405800178



CAS No: 007664-39-3 HYDROGEN FLUORIDE

Item 62.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or operator of a group 1 furnace must use the limits in this paragraph to determine the emission standards for a SAPU.

(4) 0.20 kg of HF per Mg (0.40 lb of HF per ton) of feed/charge from an uncontrolled group 1 furnace and 0.20 kg of HCl per Mg (0.40 lb of HCl per ton) of feed/charge or, if the furnace is equipped with an add-on air pollution control device, 10 percent of the uncontrolled HCl emissions, by weight, for a group 1 furnace at a secondary aluminum production facility that is a major source.

Upper Permit Limit: 0.40 pounds per ton

Reference Test Method: EPA Method 26

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 63: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 63.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00001

Emission Unit: A-00003

Regulated Contaminant(s):

CAS No: 001746-01-6 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

Item 63.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or operator of a group 1 furnace must use the limits in this paragraph to determine the emission standards for a SAPU. The limit for Dioxins/Furans is 15

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µg of D/F TEQ per Mg (2.1×10^{-4} gr of D/F TEQ per ton) of feed/charge from a group 1 furnace at a secondary aluminum production facility that is a major or area source. This limit is applicable at all times, including periods of startup and shutdown. This limit does not apply if the furnace processes only clean charge

Upper Permit Limit: 15 micrograms of D/F TEQ per Mg

Reference Test Method: EPA Method 23

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 64: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement: 40CFR 63.1505(j)(1), Subpart RRR

Item 64.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00003

Process: FBB

Regulated Contaminant(s):

CAS No: 007647-01-0 HYDROGEN CHLORIDE

Item 64.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Except as provided in paragraph (j)(3) of this section for an in-line fluxer using no reactive flux material, the owner or operator of an in-line fluxer must use the limits in this paragraph to determine the emission standards for a SAPU. This limit is applicable at all times, including periods of startup and shutdown.

Hydrogen Chloride (HCl) emission limit = 0.02 kg of HCl per Mg (0.04 lb of HCl per ton) of feed/charge

The owner or operator may determine the emission standards for a SAPU by applying the in-line fluxer limits on the basis of the aluminum production weight in each in-line fluxer, rather than on the basis of feed/charge.

Upper Permit Limit: 0.04 pounds per ton



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Permit ID: 6-4058-00178/00001

Facility DEC ID: 6405800178

Reference Test Method: EPA Method 26A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

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 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.1505(j)(2), Subpart RRR

Item 65.1:

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

Emission Unit: A-00003

Process: FBB

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Except as provided in 40 CFR Part 63.1505 (j)(3) for an in-line fluxer using no reactive flux material, the owner or operator of an in-line fluxer must use the limits in this paragraph to determine the emission standards for a SAPU. This limit is applicable at all times, including periods of startup and shutdown.

Particulate Matter (PM) emission limit = 0.005 kg of PM per Mg (0.01 lb of PM per ton) of feed/charge

The owner or operator may determine the emission standards for a SAPU by applying the in line fluxer limits on the basis of the aluminum production weight in each in line fluxer, rather than on the basis of feed/charge.

Upper Permit Limit: 0.01 pounds per ton

Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 66: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021



Applicable Federal Requirement:40CFR 63.1505(j)(4), Subpart RRR

Item 66.1:

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

Emission Unit: A-00003
Process: FBB

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:

Except as provided in 40 CFR Part 63.1505 (j)(3) for an in-line fluxer using no reactive flux material, the owner or operator of an in-line fluxer must use the limits in this paragraph to determine the emission standards for a SAPU. This limit is applicable at all times, including periods of startup and shutdown.

Particulate Matter (PM) emission limit = 0.005 kg of PM per Mg (0.01 lb of PM per ton) of feed/charge

The owner or operator may determine the emission standards for a SAPU by applying the in line fluxer limits on the basis of the aluminum production weight in each in line fluxer, rather than on the basis of feed/charge.

Upper Permit Limit: 10 percent

Reference Test Method: EPA Method 9

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: SAPU PM Emission Limit Calculation
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.1505(k)(1), Subpart RRR

Item 67.1:

On and after the compliance date established by §63.1501, the facility must comply with the emission limit calculated using the equation for PM in §63.1505(k)(1) for each secondary aluminum processing unit at a secondary aluminum facility that is a major source of HAP emissions. The facility may not discharge or allow to be discharged to the atmosphere any 3-day, 24-hour rolling average emissions of PM in excess of the PM emission limit as calculated in equation 1 of §63.1501(k)(1).



The secondary aluminum processing unit shall be monitored according to the procedures in §63.1510(t) to determine compliance with this PM limit.

Note: In-line fluxers using no reactive flux materials cannot be included in this calculation since they are not subject to the PM limit.

Condition 68: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.1505(k)(2), Subpart RRR

Item 68.1:

The Compliance Certification activity will be performed for the Facility.

Item 68.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must comply with the emission limit calculated using the equation for HCl and HF in §63.1505(k)(2) for each secondary aluminum processing unit at a secondary aluminum facility that is a major source of HAP emissions. The facility may not discharge or allow to be discharged to the atmosphere any 3-day, 24-hour rolling average emissions of HCl or HF is excess of the HCl emission limit as calculated in equation 2 of §63.1505(k)(2).

The Secondary Aluminum Processing units shall be monitored according to the procedures in 63.1510(t) to determine compliance with the HCl (and HF for uncontrolled group 1 furnaces) limit.

Note: Only uncontrolled group 1 furnaces are included in the limit calculation for HF. In-line fluxers using no reactive flux materials cannot be included in this calculation since they are not subject to the HCL or HF limit

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 69: SAPU Dioxin/Furan Emission Limit Calculation
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.1505(k)(3), Subpart RRR



Item 69.1:

On and after the compliance date established by §63.1501, the facility must comply with the emission limit calculated using the equation for dioxins/furans (D/F) in §63.1505(k)(3) for each secondary aluminum processing unit at a secondary aluminum facility that is a major or area source of HAP emissions. The facility may not discharge or allow to be discharged to the atmosphere any 3-day, 24-hour rolling average emissions of D/F in excess of the D/F emission limit as calculated in equation 3 of §63.1501(k)(3).

The secondary aluminum processing unit shall be monitored according to the procedures in §63.1510(t) to determine compliance with this D/F limit.

Note: Clean charge furnaces cannot be included in this calculation since they are not subject to the D/F limit.

Condition 70: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 70.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00003

Process: FBB

Emission Unit: A-00003

Process: MH2

Emission Unit: C-00001

Emission Unit: C-00002

Emission Unit: M-00001

Emission Unit: M-00002

Item 70.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operation, maintenance, and monitoring (OM&M) plan. The owner or operator must prepare and implement for each new or existing affected source and emission unit, a written OM&M plan. The owner or operator of an existing affected source must submit the OM&M plan to the permitting authority for major sources, or the Administrator for area sources no later than the compliance date established by §63.1501(a). The owner or operator of any new affected



source must submit the OM&M plan to the permitting authority for major sources, or the Administrator for area sources within 90 days after a successful initial performance test under §63.1511(b), or within 90 days after the compliance date established by §63.1501(b) if no initial performance test is required. The plan must be accompanied by a written certification by the owner or operator that the OM&M plan satisfies all requirements of this section and is otherwise consistent with the requirements of this subpart. The owner or operator must comply with all of the provisions of the OM&M plan as submitted to the permitting authority for major sources, or the Administrator for area sources, unless and until the plan is revised in accordance with the following procedures. If the permitting authority for major sources, or the Administrator for area sources determines at any time after receipt of the OM&M plan that any revisions of the plan are necessary to satisfy the requirements of this section or this subpart, the owner or operator must promptly make all necessary revisions and resubmit the revised plan. If the owner or operator determines that any other revisions of the OM&M plan are necessary, such revisions will not become effective until the owner or operator submits a description of the changes and a revised plan incorporating them to the permitting authority for major sources, or the Administrator for area sources. Each plan must contain the following information:

- (1) Process and control device parameters to be monitored to determine compliance, along with established operating levels or ranges, as applicable, for each process and control device.
- (2) A monitoring schedule for each affected source and emission unit.
- (3) Procedures for the proper operation and maintenance of each process unit and add-on control device used to meet the applicable emission limits or standards in §63.1505.
- (4) Procedures for the proper operation and maintenance of monitoring devices or systems used to determine compliance, including:
 - (i) Calibration and certification of accuracy of each monitoring device, at least once every 6 months, according to the manufacturer's instructions; and
 - (ii) Procedures for the quality control and quality assurance of continuous emission or opacity monitoring



systems as required by the general provisions in subpart A of this part.

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

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

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

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

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

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

(9) Procedures to be followed when changing furnace classifications under the provisions of §63.1514.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 71: Site-specific requirements for secondary aluminum processing units

Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 71.1:

(1) An owner or operator of a secondary aluminum processing unit at a facility must include, within the OM&M plan prepared in accordance with 40 CFR Part 63.1510(b), the following information:



(i) The identification of each emission unit in the secondary aluminum processing unit;

(ii) The specific control technology or pollution prevention measure to be used for each emission unit in the secondary aluminum processing unit and the date of its installation or application;

(iii) The emission limit calculated for each secondary aluminum processing unit and performance test results with supporting calculations demonstrating initial compliance with each applicable emission limit;

(iv) Information and data demonstrating compliance for each emission unit with all applicable design, equipment, work practice or operational standards of this subpart; and

(v) The monitoring requirements applicable to each emission unit in a secondary aluminum processing unit and the monitoring procedures for daily calculation of the 3-day, 24-hour rolling average using the procedure in 40 CFR Part 63.1510(t).

(2) The SAPU compliance procedures within the OM&M plan may not contain any of the following provisions:

(i) Any averaging among emissions of differing pollutants;

(ii) The inclusion of any affected sources other than emission units in a secondary aluminum processing unit;

(iii) The inclusion of any emission unit while it is shutdown; or

(iv) The inclusion of any periods of startup, shutdown, or malfunction in emission calculations.

(3) To revise the SAPU compliance provisions within the OM&M plan prior to the end of the permit term, the owner or operator must submit a request to the applicable permitting authority containing the information required by paragraph (1) of this condition and obtain approval of the applicable permitting authority prior to implementing any revisions.

Condition 72: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 72.1:

The Compliance Certification activity will be performed for the Facility.

Item 72.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Prior to conducting any performance test required by this subpart, the owner or operator must prepare a



site-specific test plan which satisfies all of the rule requirements, and must obtain approval of the plan pursuant to the procedures set forth in §63.7. Performance tests shall be conducted under such conditions as the Administrator specifies to the owner or operator based on representative performance of the affected source for the period being tested. Upon request, the owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 73: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 73.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 73.2:

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 in the notification of compliance status report as described in §63.1515(b). The owner or operator of any affected source constructed before February 14, 2012, for which an initial performance test is required to demonstrate compliance must conduct this initial performance test no later than the date for compliance established by §63.1501(a), (b), or (c). The owner or operator of any affected source constructed after February 14, 2012, for which an initial performance test is required must conduct this initial performance test within 180 days after the date for compliance established by §63.1501(e) or (f). Except for the date by which the performance test must be conducted, the owner or operator must conduct each performance test in accordance with the requirements and procedures set forth in §63.7(c). Owners or operators of affected sources located at facilities which are area sources are subject only to those



performance testing requirements pertaining to D/F. Owners or operators of sweat furnaces meeting the specifications of §63.1505(f)(1) are not required to conduct a performance test.

(1) The performance tests must be conducted under representative conditions expected to produce the highest level of HAP emissions expressed in the units of the emission standards for the HAP (considering the extent of feed/charge contamination, reactive flux addition rate and feed/charge rate). If a single test condition is not expected to produce the highest level of emissions for all HAP, testing under two or more sets of conditions (for example high contamination at low feed/charge rate, and low contamination at high feed/charge rate) may be required. Any subsequent performance tests for the purposes of establishing new or revised parametric limits shall be allowed upon pre-approval from the permitting authority for major sources, or the Administrator for area sources. These new parametric settings shall be used to demonstrate compliance for the period being tested.

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

(3) Each performance test for a batch process must consist of three separate runs; pollutant sampling for each run must be conducted over the entire process operating cycle. Additionally, for batch processes where the length of the process operating cycle is not known in advance, and where isokinetic sampling must be conducted based on the procedures in Method 5 in appendix A to part 60, use the following procedure to ensure that sampling is conducted over the entire process operating cycle:

(i) Choose a minimum operating cycle length and begin sampling assuming this minimum length will be the run time (e.g., if the process operating cycle is known to last from four to six hours, then assume a sampling time of four hours and divide the sampling time evenly between the required number of traverse points);

(ii) After each traverse point has been sampled once, begin sampling each point again for the same time per point, in the reverse order, until the operating cycle is complete. All traverse points as required by Method 1 of appendix A to part 60, must be sampled at least once during each test run;



(iii) In order to distribute the sampling time most evenly over all the traverse points, do not perform all runs using the same sampling point order (e.g., if there are four ports and sampling for run 1 began in port 1, then sampling for run 2 could begin in port 4 and continue in reverse order.)

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

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

(6) Apply paragraphs (b)(1) through (5) of this section for each pollutant separately if a different production rate, charge material or, if applicable, reactive fluxing rate would apply and thereby result in a higher expected emissions rate for that pollutant.

(7) The owner or operator may not conduct performance tests during periods of malfunction.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 74: Test Methods
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 74.1:

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.

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(6) Method 9 for visible emission observations.

(7) Method 23 for the concentration of D/F.

(8) Method 25A for the concentration of THC, as propane.

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

Condition 75: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 75.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00003
Process: FBB

Emission Unit: A-00003
Process: MH2

Emission Unit: M-00001

Emission Unit: M-00002

Item 75.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 76: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 76.1:

The Compliance Certification activity will be performed for the facility:

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Permit ID: 6-4058-00178/00001

Facility DEC ID: 6405800178



The Compliance Certification applies to:

Emission Unit: A-00003
Process: FBB

Emission Unit: A-00003
Process: MH2

Emission Unit: M-00001

Emission Unit: M-00002

Item 76.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

With the prior approval of the permitting authority for major sources, or the Administrator for area sources, an owner or operator may utilize emission rates obtained by testing a particular type of group 1 furnace that does not have an add-on air pollution control device, or by testing an in-line flux box that does not have an add-on air pollution control device, to determine the emission rate for other units of the same type at the same facility. Such emission test results may only be considered to be representative of other units if all of the following criteria are satisfied:

- (1) The tested emission unit must use feed materials and charge rates which are comparable to the emission units that it represents;
- (2) The tested emission unit must use the same type of flux materials in the same proportions as the emission units it represents;
- (3) The tested emission unit must be operated utilizing the same work practices as the emission units that it represents;
- (4) The tested emission unit must be of the same design as the emission units that it represents; and
- (5) The tested emission unit must be tested under the highest load or capacity reasonably expected to occur for any of the emission units that it represents.
- (6) All 3 separate runs of a performance test must be conducted on the same emission unit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING



DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 77: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 77.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00003

Process: MH2

Emission Unit: M-00001

Process: MHS

Item 77.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Group 1 furnace (including melting holding furnaces) without add-on air pollution control devices. In the site-specific monitoring plan required by §63.1510(o), the owner or operator of a group 1 furnace (including a melting/holding furnaces) without add-on air pollution control devices must include data and information demonstrating compliance with the applicable emission limits.

(1) If the group 1 furnace processes other than clean charge material, the owner or operator must conduct emission tests to measure emissions of PM, HCl, HF, and D/F at the furnace exhaust outlet.

(2) If the group 1 furnace processes only clean charge, the owner or operator must conduct emission tests to simultaneously measure emissions of PM, HCl and HF. A D/F test is not required. Each test must be conducted while the group 1 furnace (including a melting/holding furnace) processes only clean charge.

(3) The owner or operator may choose to determine the rate of reactive flux addition to the group 1 furnace and assume, for the purposes of demonstrating compliance with the SAPU emission limit, that all chlorine and fluorine contained in reactive flux added to the group 1 furnace is emitted as HCl and HF. Under these circumstances, the owner or operator is not required to conduct an emission test for HCl or HF.



(4) When testing an existing uncontrolled furnace, the owner or operator must comply with the requirements of either paragraphs (e)(4)(i), (ii) or (iii) of this section at the next required performance test required by §63.1511(e).

(i) Install hooding that meets ACGIH Guidelines (incorporated by reference, see §63.14), or

(ii) At least 180 days prior to testing petition the permitting authority for major sources, or the Administrator for area sources, that such hoods are impractical under the provisions of paragraph (e)(6) of this section and propose testing procedures that will minimize unmeasured emissions during the performance test according to the paragraph (e)(7) of this section, or

(iii) Assume an 80-percent capture efficiency for the furnace exhaust (i.e., multiply emissions measured at the furnace exhaust outlet by 1.25). If the source fails to demonstrate compliance using the 80-percent capture efficiency assumption, the owner or operator must re-test with a hood that meets the ACGIH Guidelines within 180 days, or petition the permitting authority for major sources, or the Administrator for area sources, within 180 days that such hoods are impractical under the provisions of paragraph (e)(6) of this section and propose testing procedures that will minimize unmeasured emissions during the performance test according to paragraph (e)(7) of this section.

(iv) The 80-percent capture efficiency assumption is not applicable in the event of testing conducted under an approved petition submitted pursuant to paragraphs (e)(4)(ii) or (iii) of this section.

(v) Round top furnaces constructed before February 14, 2012, and reconstructed round top furnaces are exempt from the requirements of paragraphs (e)(4)(i) and (ii) of this section. Round top furnaces must be operated to minimize unmeasured emissions according to paragraph (e)(7) of this section.

(5) When testing a new uncontrolled furnace constructed after February 14, 2012, the owner or operator must install hooding that meets ACGIH Guidelines (incorporated by reference, see §63.14) or petition the permitting authority for major sources, or the Administrator for area sources, that such hoods are impracticable under the provisions of paragraph (e)(6) of this section and propose



testing procedures that will minimize unmeasured emissions during the performance test according to the provisions of paragraph (e)(7).

(6) The installation of hooding that meets ACGIH Guidelines (incorporated by reference, see §63.14) is considered impractical if any of the following conditions exist:

(i) Building or equipment obstructions (for example, wall, ceiling, roof, structural beams, utilities, overhead crane or other obstructions) are present such that the temporary hood cannot be located consistent with acceptable hood design and installation practices;

(ii) Space limitations or work area constraints exist such that the temporary hood cannot be supported or located to prevent interference with normal furnace operations or avoid unsafe working conditions for the furnace operator; or

(iii) Other obstructions and limitations subject to agreement of the permitting authority for major sources, or the Administrator for area sources.

(7) Testing procedures that will minimize unmeasured emissions may include, but are not limited to the following:

(i) Installing a hood that does not entirely meet ACGIH guidelines;

(ii) Using the building as an enclosure, and measuring emissions exhausted from the building if there are no other furnaces or other significant sources in the building of the pollutants to be measured;

(iii) Installing temporary baffles on those sides or top of furnace opening if it is practical to do so where they will not interfere with material handling or with the furnace door opening and closing;

(iv) Minimizing the time the furnace doors are open or the top is off;

(v) Delaying gaseous reactive fluxing until charging doors are closed and, for round top furnaces, until the top is on;

(vi) Agitating or stirring molten metal as soon as practicable after salt flux addition and closing doors as soon as possible after solid fluxing operations, including



mixing and dross removal;

(vii) Keeping building doors and other openings closed to the greatest extent possible to minimize drafts that would divert emissions from being drawn into the furnace;

(viii) Maintaining burners on low-fire or pilot operation while the doors are open or the top is off;

(ix) Use of fans or other device to direct flow into a furnace when door is open; or

(x) Removing the furnace cover one time in order to add a smaller but representative charge and then replacing the cover.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 78: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.1512(h)(2), Subpart RRR

Item 78.1:

The Compliance Certification activity will be performed for the Facility.

Item 78.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator may choose to limit the rate at which reactive flux is added to an in-line fluxer and assume, for the purposes of demonstrating compliance with the SAPU emission limit, that all chlorine in the reactive flux added to the in-line fluxer is emitted as HCl. Under these circumstances, the owner or operator is not required to conduct an emission test for HCl. If the owner or operator of any in-line flux box that has no ventilation ductwork manifolded to any outlet or emission control device chooses to demonstrate compliance with the emission limits for HCl by limiting use of reactive flux and assuming that all chlorine in the flux is emitted as HCl, compliance with the HCl limit shall also constitute compliance with the emission limit for PM and no separate emission test for PM is required. In this case, the owner or operator of the unvented in-line flux box must use the maximum permissible PM emission rate for the in-line flux boxes when determining the total emissions for any SAPU



which includes the flux box.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 79: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 79.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00003
Process: FBB

Emission Unit: A-00003
Process: MH2

Emission Unit: M-00001

Emission Unit: M-00002

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

Item 79.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must conduct performance tests as described below. The results of the performance tests are used to establish emission rates in lb/ton of feed/charge for PM and HCl and ug TEQ/Mg of feed charge for D/F emissions 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). A performance test is required for:

(1) Each group 1 furnace processing only clean charge to measure emissions of PM and either:

(i) Emissions of HCl (for the emission limit); or

(ii) The mass flow rate of HCl at the inlet to and outlet from the control device (for the percent reduction standard).

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(2) Each group 1 furnace that processes other than clean charge to measure emissions of PM and D/F and either:

(i) Emissions of HCl (for the emission limit); or

(ii) The mass flow rate of HCl at the inlet to and outlet from the control device (for the percent reduction standard).

(3) Each in-line fluxer to measure emissions of PM and HCl.

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 80: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.1515, Subpart RRR

Item 80.1:

The Compliance Certification activity will be performed for the Facility.

Item 80.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Alcoa must submit initial notifications to the permitting authority as described below:

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

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



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notification of opacity or visible emission observations for a performance test must be provided at least 30 days before the observations are scheduled to take place.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 81: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 81.1:

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

Emission Unit: A-00003
Process: FBB

Emission Unit: A-00003
Process: MH2

Emission Unit: C-00001

Emission Unit: C-00002

Emission Unit: M-00001

Emission Unit: M-00002

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

Item 81.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Each owner or operator of an existing affected source must submit a notification of compliance status report within 60 days after the compliance date established by §63.1501(a). Each owner or operator of a new affected source must submit a notification of compliance status report within 90 days after conducting the initial performance test required by §63.1511(b), or within 90 days after the compliance date established by §63.1501(b) if no initial performance test is required. The notification must be signed by the responsible official who must certify its accuracy. A complete notification of compliance status report must include the information specified in paragraphs (a)(1) through (10) of this



section. The required information may be submitted in an operating permit application, in an amendment to an operating permit application, in a separate submittal, or in any combination. In a State with an approved operating permit program where delegation of authority under section 112(l) of the CAA has not been requested or approved, the owner or operator must provide duplicate notification to the applicable Regional Administrator. If an owner or operator submits the information specified in this section at different times or in different submittals, later submittals may refer to earlier submittals instead of duplicating and resubmitting the information previously submitted. A complete notification of compliance status report must include:

- (1) All information required in §63.9(h). The owner or operator must provide a complete performance test report for each affected source and emission unit for which a performance test is required. A complete performance test report includes all data, associated measurements, and calculations (including visible emission and opacity tests).
- (2) The approved site-specific test plan and performance evaluation test results for each continuous monitoring system (including a continuous emission or opacity monitoring system).
- (3) Unit labeling as described in §63.1506(b), including process type or furnace classification and operating requirements.
- (4) The compliant operating parameter value or range established for each affected source or emission unit with supporting documentation and a description of the procedure used to establish the value (e.g., lime injection rate, total reactive chlorine flux injection rate, total reactive fluorine flux injection rate for uncontrolled group 1 furnaces, afterburner operating temperature, fabric filter inlet temperature), including the operating cycle or time period used in the performance test.
- (5) Design information and analysis, with supporting documentation, demonstrating conformance with the requirements for capture/collection systems in §63.1506(c).
- (6) If applicable, analysis and supporting documentation demonstrating conformance with EPA guidance and specifications for bag leak detection systems in §63.1510(f).



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

(8) Manufacturer's specification or analysis documenting the design residence time of no less than 0.8 seconds and design operating temperature of no less than 1,600 °F for each afterburner used to control emissions from a sweat furnace that is not subject to a performance test.

(9) The OM&M plan (including site-specific monitoring plan for each group 1 furnace with no add-on air pollution control device).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 82: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.1516, Subpart RRR

Item 82.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00003
Process: FBB

Emission Unit: A-00003
Process: MH2

Emission Unit: C-00001
Process: CD1

Emission Unit: C-00001
Process: CM1

Emission Unit: C-00002
Process: CD2

Emission Unit: C-00002
Process: CM2

Emission Unit: M-00001
Process: MHS

Emission Unit: M-00002



Process: FBA

Item 82.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Excess emissions/summary report. The owner or operator of a major or area source must submit semiannual reports according to the requirements in §63.10(e)(3).

Each report must contain the information specified in §63.10(c), as well as the applicable certifications listed in §63.1516(b)(2). When no deviations of parameters have occurred, the owner or operator must submit a report stating that no excess emissions occurred during the reporting period. A report must be submitted if any of the conditions listed in 40 CFR §63.1516(b)(1) occur during a 6-month reporting period.

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

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

(1) Any period of excess emissions, as defined in paragraph (b)(1) of this section, that occurred during the year were reported as required by this subpart; and

(2) All monitoring, recordkeeping, and reporting requirements were met during the year.

Malfunction Reporting: If there was a malfunction during the reporting period, the owner or operator must submit a report that includes the emission unit ID, monitor ID, pollutant or parameter monitored, beginning date and time of the event, end date and time of the event, cause of the deviation or exceedance and corrective action taken for each malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must include a list of the affected source or equipment, an estimate of the quantity of each regulated pollutant

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emitted over any emission limit, and a description of the method used to estimate the emissions, including, but not limited to, product-loss calculations, mass balance calculations, measurements when available, or engineering judgment based on known process parameters. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with §63.1506(a)(5).

Submittal of Reports. All reports required by 40 CFR 63 Subpart RRR (with the exception of the Excess Emissions Summary Report) must be sent to the USEPA at the appropriate address listed in §63.13. If acceptable to both the USEPA and the owner or operator of a source, these reports may be submitted on electronic media. The Administrator retains the right to require submittal of reports subject to paragraph (b) of this section in paper format.

Monitoring Frequency: MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 83: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.1517, Subpart RRR

Item 83.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: A-00003

Process: FBB

Emission Unit: A-00003

Process: MH2

Emission Unit: C-00001

Emission Unit: C-00002

Emission Unit: M-00001

Emission Unit: M-00002

Item 83.2:

Compliance Certification shall include the following monitoring:

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

a) As required by §63.10(b), the owner or operator shall maintain files of all information (including all reports and notifications) required by the general provisions and this subpart.

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

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

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

(b) In addition to the general records required by §63.10(b), the owner or operator of a new or existing affected source (including an emission unit in a secondary aluminum processing unit) must maintain additional records listed in 40 CFR §63.1517(b)(1) through (b)(20) as applicable.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 84: Applicability

Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63, Subpart ZZZZ

Item 84.1:

Facilities that have reciprocating internal combustion engines must comply with applicable portions of 40 CFR 63 subpart ZZZZ.

Condition 85: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40 CFR Part 64

Item 85.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: S-00004



Process: M04	Emission Source: SS090
Emission Unit: S-00004 Process: M06	Emission Source: SS23A
Emission Unit: S-00004 Process: M06	Emission Source: SS23B
Emission Unit: S-00004 Process: M06	Emission Source: SS23C
Emission Unit: S-00004 Process: M07	Emission Source: SS041
Emission Unit: S-00004 Process: M09	Emission Source: SS049
Emission Unit: S-00004 Process: M09	Emission Source: SS050
Emission Unit: S-00004 Process: M09	Emission Source: SS051
Emission Unit: S-00004 Process: M09	Emission Source: SS052
Emission Unit: S-00004 Process: M09	Emission Source: SS053
Emission Unit: S-00004 Process: M09	Emission Source: SS060
Emission Unit: S-00004 Process: M11	Emission Source: SS092
Emission Unit: S-00004 Process: M11	Emission Source: SS093
Emission Unit: S-00004 Process: M12	Emission Source: SS043

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 85.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The emission sources and emission control devices listed above shall be monitored and maintained according to



the most recently submitted and Department approved Compliance Assurance Monitoring (CAM) plan for this facility in order to ensure proper operation and control. The CAM plan will be changed and improved over time. Each change shall be submitted to the department for approval. Monitoring parameter measurements made outside normal operating ranges will trigger additional reporting according to the CAM Plan. Records shall be maintained for a minimum of five years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

**Condition 86: Emission Point Definition By Emission Unit
Effective between the dates of 11/01/2016 and 10/31/2021**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 86.1:

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

Emission Unit: A-00001

Emission Point: I0026			
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		
NYTMN (km.): 4976.66	NYTME (km.): 509.387	Building: 222	

Item 86.2:

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

Emission Unit: A-00003

Emission Point: I0047			
Height (ft.): 62	Diameter (in.): 54		
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 222	

Emission Point: I0048			
Height (ft.): 82	Diameter (in.): 79		

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NYTMN (km.): 4977. NYTME (km.): 508.9 Building: 221

Item 86.3:

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

Emission Unit: B-00002

Emission Point: B001A
Height (ft.): 45 Diameter (in.): 20
NYTMN (km.): 4976.66 NYTME (km.): 509.387 Building: 356

Item 86.4:

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 86.5:

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

Emission Unit: C-00002

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 86.6:

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

Emission Unit: D-00001

Emission Point: I0042
Height (ft.): 50 Diameter (in.): 22
NYTMN (km.): 4977. NYTME (km.): 509.9 Building: 222

Item 86.7:

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

Emission Unit: M-00001

Emission Point: I001A

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Height (ft.): 67	Diameter (in.): 32	
NYTMN (km.): 4977.645	NYTME (km.): 508.314	Building: 221
Emission Point: I001B		
Height (ft.): 67	Diameter (in.): 32	
NYTMN (km.): 4977.604	NYTME (km.): 508.318	Building: 221
Emission Point: I001C		
Height (ft.): 68	Diameter (in.): 20	
NYTMN (km.): 4977.641	NYTME (km.): 508.316	Building: 221
Emission Point: I001D		
Height (ft.): 68	Diameter (in.): 20	
NYTMN (km.): 4977.626	NYTME (km.): 508.316	Building: 221
Emission Point: I0031		
Height (ft.): 74	Diameter (in.): 50	
NYTMN (km.): 4976.66	NYTME (km.): 509.387	Building: 221
Emission Point: I0034		
Height (ft.): 74	Diameter (in.): 32	
NYTMN (km.): 4976.66	NYTME (km.): 509.387	Building: 221
Emission Point: I0035		
Height (ft.): 74	Diameter (in.): 32	
NYTMN (km.): 4976.66	NYTME (km.): 509.387	Building: 221
Emission Point: I003A		
Height (ft.): 67	Diameter (in.): 33	
NYTMN (km.): 4976.66	NYTME (km.): 509.387	Building: 221
Emission Point: I003C		
Height (ft.): 67	Diameter (in.): 79	
NYTMN (km.): 4976.66	NYTME (km.): 509.387	Building: 221
Emission Point: I024D		
Height (ft.): 74	Diameter (in.): 50	
NYTMN (km.): 4976.66	NYTME (km.): 509.387	Building: 221
Emission Point: I024F		
Height (ft.): 82	Diameter (in.): 79	
NYTMN (km.): 4976.66	NYTME (km.): 509.387	Building: 221

Item 86.8:

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

Emission Unit: M-00002

Emission Point: I001E		
Height (ft.): 67	Diameter (in.): 42	
NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 221

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Emission Point: I003E
Height (ft.): 67 Diameter (in.): 42
NYTMN (km.): 4977. NYTME (km.): 508.9 Building: 221

Emission Point: I024E
Height (ft.): 46 Diameter (in.): 8
NYTMN (km.): 4977.223 NYTME (km.): 508.928 Building: 221

Item 86.9:

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

Emission Unit: S-00001

Emission Point: PRV01
Height (ft.): 70 Length (in.): 204 Width (in.): 120
NYTMN (km.): 4976.66 NYTME (km.): 509.387 Building: 401

Emission Point: SA398
Height (ft.): 78 Diameter (in.): 48
NYTMN (km.): 4977. NYTME (km.): 508.9 Building: 401

Item 86.10:

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

Item 86.11:

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

Emission Unit: S-00003

Emission Point: S0100
Height (ft.): 11 Diameter (in.): 42
NYTMN (km.): 4977. NYTME (km.): 508.9 Building: 354C

Emission Point: S0101
Height (ft.): 34 Diameter (in.): 42
NYTMN (km.): 4976.66 NYTME (km.): 509.387 Building: 354C

Item 86.12:

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

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Emission Point: S0016 Height (ft.): 23 NYTMN (km.): 4977.	Length (in.): 12 NYTME (km.): 508.9	Width (in.): 12 Building: 332
Emission Point: S0039 Height (ft.): 79 NYTMN (km.): 4977.	Length (in.): 40 NYTME (km.): 508.9	Width (in.): 27 Building: 354B
Emission Point: S0041 Height (ft.): 42 NYTMN (km.): 4977.	Diameter (in.): 15 NYTME (km.): 508.9	Building: 441
Emission Point: S0043 Height (ft.): 91 NYTMN (km.): 4977.	Diameter (in.): 15 NYTME (km.): 508.9	Building: 441C
Emission Point: S0046 Height (ft.): 79 NYTMN (km.): 4977.	Diameter (in.): 10 NYTME (km.): 508.9	Building: 446A
Emission Point: S0047 Height (ft.): 79 NYTMN (km.): 4977.	Diameter (in.): 10 NYTME (km.): 508.9	Building: 446B
Emission Point: S0048 Height (ft.): 79 NYTMN (km.): 4977.	Diameter (in.): 10 NYTME (km.): 508.9	Building: 446C
Emission Point: S0049 Height (ft.): 106 NYTMN (km.): 4977.	Diameter (in.): 15 NYTME (km.): 508.9	Building: 354C
Emission Point: S0050 Height (ft.): 106 NYTMN (km.): 4977.	Diameter (in.): 15 NYTME (km.): 508.9	Building: 354C
Emission Point: S0051 Height (ft.): 106 NYTMN (km.): 4977.	Diameter (in.): 13 NYTME (km.): 508.9	Building: 354C
Emission Point: S0052 Height (ft.): 106 NYTMN (km.): 4977.	Diameter (in.): 21 NYTME (km.): 508.9	Building: 354C
Emission Point: S0053 Height (ft.): 106 NYTMN (km.): 4977.	Diameter (in.): 13 NYTME (km.): 508.9	Building: 354C
Emission Point: S0060 Height (ft.): 105 NYTMN (km.): 4977.	Diameter (in.): 16 NYTME (km.): 508.9	Building: 354C



Emission Point: S0061	Height (ft.): 105	Diameter (in.): 9	
	NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 354C
Emission Point: S0086	Height (ft.): 22	Diameter (in.): 15	
	NYTMN (km.): 4977.	NYTME (km.): 508.9	Building: 440A
Emission Point: S0090	Height (ft.): 4	Diameter (in.): 13	
	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.): 4978.44	NYTME (km.): 508.308	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 86.13:

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

Emission Unit: S-00005			
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.): 4978.571 NYTME (km.): 508.973 Building: 352F

Emission Point: S073A
Height (ft.): 37 Diameter (in.): 8
NYTMN (km.): 4977. NYTME (km.): 508.9 Building: 352B

Condition 87: Process Definition By Emission Unit
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 87.1:

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

Emission Unit: A-00001
Process: HMO Source Classification Code: 3-04-001-12
Process Description:
TWO (2) 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: AI043 - Process

Emission Source/Control: AI046 - Process

Item 87.2:

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

Emission Unit: A-00003
Process: FBB Source Classification Code: 3-04-001-06
Process 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.

Emission Source/Control: M004D - Process

Item 87.3:

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



Emission Unit: A-00003
Process: HM1 Source Classification Code: 3-04-001-12
Process Description:

One (1) homogenizer heat treat furnace. It 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: AI047 - Process

Item 87.4:

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

Emission Unit: A-00003
Process: MH2 Source Classification Code: 3-04-001-03
Process Description:

Molten aluminum melting and holding furnaces which are permitted to use salt fluxes. All furnaces are reverberatory, center charged. No gas fluxing is done in any furnace.

Emission Source/Control: M004A - Process

Item 87.5:

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

Emission Unit: B-00002
Process: BLR Source Classification Code: 1-02-006-02
Process Description:

2 natural gas package boilers sharing a common stack.

Emission Source/Control: 0B00A - Combustion
Design Capacity: 12.4 million Btu per hour

Emission Source/Control: B000B - Combustion
Design Capacity: 12.4 million Btu per hour

Item 87.6:

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: C0029 - Process

Item 87.7:

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

Emission Unit: C-00001

New York State Department of Environmental Conservation
Permit ID: 6-4058-00178/00001 Facility DEC ID: 6405800178



Process: CM1 Source Classification Code: 3-04-001-02
Process Description:
CHIP MELTER #1 MELTS CLEAN ALUMINUM
MACHINING CHIPS.

Emission Source/Control: C0030 - Process

Item 87.8:

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: C0044 - Process

Item 87.9:

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

Emission Unit: C-00002
Process: CM2 Source Classification Code: 3-04-001-02
Process Description:
CHIP MELTER #2 MELTS CLEAN ALUMINUM
MACHINING CHIPS.

Emission Source/Control: C0045 - Process

Item 87.10:

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

Emission Unit: D-00001
Process: CCT Source Classification Code: 3-04-001-99
Process Description:
EMULSIFIED OIL AND WATER SYSTEM FOR THE
CONTINUOUS CASTER.

Emission Source/Control: DII42 - Process

Item 87.11:

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

Emission Unit: D-00001
Process: SKD Source Classification Code: 3-04-001-99
Process Description:
FUGITIVES FROM SKIM AND DROSS AREA USED
FOR PASSIVE COOLING OF SKIM AND DROSS.

Emission Source/Control: DI116 - Process

Item 87.12:



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

Emission Unit: F-00001
Process: FC1 Source Classification Code: 3-04-001-99
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 87.13:

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

Emission Unit: F-00001
Process: FC3 Source Classification Code: 3-04-001-99
Process Description:
TWO (2) MOLD SHOP BAKE OVENS. SMALL OVEN IS USED TO VOLATILIZE OIL IMPREGNATED IN GHRAPHITE RINGS. EMISSIONS VENT INTO THE MILL AND ESTIMATED TO BE INSIGNIFICANT.

Emission Source/Control: FIFC3 - Process

Item 87.14:

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

Emission Unit: M-00001
Process: MHS Source Classification Code: 3-04-001-03
Process Description:
Molten aluminum melting and holding furnaces which are permitted to use salt fluxes. All furnaces are reverberatory, center charged. No gas fluxing is done in any furnace.

Emission Source/Control: M001A - Process

Emission Source/Control: M001B - Process

Emission Source/Control: M001C - Process

Emission Source/Control: M001D - Process

Emission Source/Control: M0031 - Process

Emission Source/Control: M0034 - Process

Emission Source/Control: M0035 - Process

Emission Source/Control: M003A - Process

New York State Department of Environmental Conservation

Permit ID: 6-4058-00178/00001

Facility DEC ID: 6405800178



Emission Source/Control: M003C - Process

Emission Source/Control: M024D - Process

Emission Source/Control: M024F - Process

Item 87.15:

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

Emission Unit: M-00002

Process: FBA

Source Classification Code: 3-04-001-06

Process Description:

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, INDIVIDUALLY OR NOT AT ALL IN THE CASE OF AN INERTED FILTERBOX. HOWEVER, ONLY ONE FILTERBOX IS FLUXING AT ANY TIME SINCE THERE IS ONLY ONE CASTING APPARATUS PER COMPLEX.

Emission Source/Control: M001E - Process

Emission Source/Control: M0036 - Process

Emission Source/Control: M003E - Process

Emission Source/Control: M005E - Process

Emission Source/Control: M024E - Process

Item 87.16:

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

Emission Unit: P-00001

Process: PWS

Source Classification Code: 4-01-002-51

Process Description:

THIS PROCESS CONSISTS OF ALL THE COLD CLEANING PARTS WASHERS.

Emission Source/Control: PARTS - Process

Item 87.17:

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

New York State Department of Environmental Conservation

Permit ID: 6-4058-00178/00001

Facility DEC ID: 6405800178



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: SS398 - Control
Control Type: SCRUBBER - DRY ALUMINA INJECTION

Emission Source/Control: SPRV1 - Process

Emission Source/Control: SS198 - Process

Item 87.18:

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 87.19:

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

Emission Unit: S-00003
Process: ANC Source Classification Code: 3-03-001-11
Process Description: W354 Anode cooling tower

Emission Source/Control: SS101 - Process

Item 87.20:

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

Emission Unit: S-00003
Process: GMS Source Classification Code: 3-03-001-99
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 87.21:



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

Emission Unit: S-00004
Process: M01 Source Classification Code: 3-03-001-99
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.

Emission Source/Control: SS015 - Control
Control Type: FABRIC FILTER

Emission Source/Control: SS415 - Process

Item 87.22:

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

Emission Unit: S-00004
Process: M03 Source Classification Code: 3-03-001-99
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 87.23:

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 ALUMINUM LOADING AND UNLOADING
AREA.

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

Emission Source/Control: SS490 - Process

Item 87.24:

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

Emission Unit: S-00004
Process: M05 Source Classification Code: 3-03-001-99
Process Description: ROUGH CLEANING OF SPENT ANODES.

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

Emission Source/Control: 423AB - Process



Item 87.25:

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

Emission Unit: S-00004
Process: M06 Source Classification Code: 3-03-001-99
Process Description:
BATH HANDLING, CRUSHING AND CRUCIBLE
DIGGING OPERATIONS.

Emission Source/Control: SS23A - Control
Control Type: FABRIC FILTER

Emission Source/Control: SS23B - Control
Control Type: FABRIC FILTER

Emission Source/Control: SS23C - Control
Control Type: FABRIC FILTER

Emission Source/Control: 423AA - Process

Emission Source/Control: 423AC - Process

Item 87.26:

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 87.27:

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

Emission Unit: S-00004
Process: M08 Source Classification Code: 3-03-001-99
Process Description: BUTT CRUSHING.

Emission Source/Control: SS039 - Control
Control Type: FABRIC FILTER

Emission Source/Control: SS438 - Process

Item 87.28:

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



Emission Unit: S-00004
Process: M09 Source Classification Code: 3-03-001-04
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 87.29:

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

Emission Unit: S-00004
Process: M10 Source Classification Code: 3-03-000-03
Process Description: STORAGE TANK 440A AND 440B FLUIDIZER FOR ALUMINA.

Emission Source/Control: SS086 - Control
Control Type: FABRIC FILTER

Emission Source/Control: SS486 - Process

Item 87.30:

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

Emission Unit: S-00004
Process: M11 Source Classification Code: 3-03-000-04
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 87.31:

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 87.32:

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

Emission Source/Control: SS446 - Process

Item 87.33:

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 87.34:



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 87.35:

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

Emission Unit: S-00004
Process: M16 Source Classification Code: 3-03-001-99
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 87.36:

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

Emission Unit: S-00005
Process: PST Source Classification Code: 3-03-001-04
Process Description:
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 87.37:

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

Emission Unit: S-00005



Process: PUN Source Classification Code: 3-03-001-04

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 BU

Emission Source/Control: SS073 - Process

Emission Source/Control: SS077 - Process

Emission Source/Control: SSFP1 - Process

Item 87.38:

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

Emission Unit: S-00006
Process: FA1 Source Classification Code: 3-03-000-04

Process Description:
TOTAL SUSPENDED SOLID (I.E. PARTICULATE)
FUGITIVES FROM COKE UNLOADING.

Emission Source/Control: SSFA1 - Process

Item 87.39:

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

Emission Unit: S-00006
Process: FA2 Source Classification Code: 3-03-001-99

Process Description:
TOTAL SUSPENDED SOLID (I.E. PARTICULATE)
FUGITIVES FROM COKE AND HANDLING.

Emission Source/Control: SSFA2 - Process

Item 87.40:

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

Emission Unit: S-00006
Process: FA3 Source Classification Code: 3-03-001-99

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 87.41:

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

New York State Department of Environmental Conservation

Permit ID: 6-4058-00178/00001

Facility DEC ID: 6405800178



Emission Unit: S-00006

Process: FAC

Source Classification Code: 3-03-001-99

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

Condition 88: Process Permissible Emissions
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 88.1:

The sum of emissions from the regulated process cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: S-00004 Process: M16

CAS No: 0NY075-00-0

Name: PARTICULATES

PTE(s): 29,000 pounds per year

Condition 89: SAPU emission limits for individual emission units
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.1505(k)(4), Subpart RRR

Item 89.1:

This Condition applies to:

Emission Unit: M00001

Emission Unit: M00002

Item 89.1:

This Condition applies to Emission Unit: A-00003

Item 89.2.3:

The owner/operator of a secondary aluminum processing unit (SAPU) at a secondary aluminum production facility that is a major source may demonstrate compliance with the emission limits of §63.1505(k)(1)-(3) by demonstrating that each emission unit with the SAPU is in compliance with the applicable emission limits of §63.1505(i) and 1505(j).

New York State Department of Environmental Conservation

Permit ID: 6-4058-00178/00001

Facility DEC ID: 6405800178



Condition 90: Performance Test/Compliance Demonstration Requirements and Procedures - Feed/Charge Weight Measurement.

Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 90.1:

This Condition applies to:

Emission Unit: A00003
Process: MH2

Emission Unit: C00001

Emission Unit: C00002

Emission Unit: M00002

Item 90.1:

This Condition applies to Emission Unit: A-00003
Process: FBB

Item 90.2.3:

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 11/01/2016 and 10/31/2021

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

Item 91.1:

The Compliance Certification activity will be performed for:

Emission Unit: A-00003
Process: FBB

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

Item 91.2:

Compliance Certification shall include the following monitoring:

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Facility DEC ID: 6405800178



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 92: Equation to Calculate SAPU HCl emissions
Effective between the dates of 11/01/2016 and 10/31/2021**

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

Item 92.1:

This Condition applies to:

Emission Unit: A00003
Process: MH2

Emission Unit: M00001

Item 92.1:

This Condition applies to Emission Unit: A-00003
Process: FBB

Item 92.2.3:

Use the equation below to compute the aluminum mass-weighted HCl emissions for the secondary aluminum processing unit. Compliance is achieved if the mass weighted emissions for the secondary aluminum processing unit (E_{cHCl}) is less than or equal to the emission limit for the secondary aluminum processing unit (L_{cHCl}) calculated using equation 2 in §63.1505(k).

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

Where,

E_{cHCl} = The mass weighted HCl emissions for the secondary aluminum processing unit;



and

E_{iHCl} = Measured HCl emissions for the individual emissions unit i .

T_{ii} = The average feed rate (production 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: Equation to show compliance with SAPU particulate emission limit

Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 93.1:

This Condition applies to:

Emission Unit: A00003

Process: MH2

Emission Unit: M00001

Item 93.1:

This Condition applies to Emission Unit: A-00003

Process: FBB

Item 93.2.3:

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).

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

Where,

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



E_{iPM} = Measured PM emissions for individual emission unit i ;
 T_{ij} = The average feed rate (production 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 94: Establishment of Monitoring and Operating Parameter Values Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 94.1:

This Condition applies to:

Emission Unit: A00003

Process: FBB

Emission Unit: C00001

Emission Unit: C00002

Emission Unit: M00001

Emission Unit: M00002

Item 94.1:

This Condition applies to Emission Unit: A-00003
Process: MH2

Item 94.2.3:

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

(1) The complete emission test report(s) used as the basis of the parameter(s) is submitted.

(2) The same test methods and procedures as required by this subpart were used in the test.

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

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

Condition 95: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.7500(a)(1), Subpart DDDDD

Item 95.1:

The Compliance Certification activity will be performed for:

Emission Unit: B-00002

Item 95.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Boilers with a heat input capacity of 10 million Btu per hour or greater must conduct an annual tune-up as specified in 40 CFR 63.7540(a)(10) and must be conducted no more than 13 months after the previous tune-up. New or reconstructed boilers must conduct the first annual tune-up no later than 13 months after the initial startup of the affected source.

Monitoring Frequency: ANNUALLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 96: Good air pollution control practices
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.7500(a)(3), Subpart DDDDD

Item 96.1:

This Condition applies to Emission Unit: B-00002

Item 96.2:

At all times, the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may

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include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

Condition 97: Affirmative defense
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.7501(a), Subpart DDDDD

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Condition 98: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.7550(c), Subpart DDDDD

Item 98.1:
The Compliance Certification activity will be performed for:

Emission Unit: B-00002

Item 98.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

All compliance reports for 40 CFR 63 Subpart DDDDD must contain the information required in 40 CFR 63.7550(c)(1) through (5).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 99: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.7555(a), Subpart DDDDD

Item 99.1:
The Compliance Certification activity will be performed for:

Emission Unit: B-00002

Item 99.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must keep records according to paragraphs (1) and (2).

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(1) A copy of each notification and report that was submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that was submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv).

(2) Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 100: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.7560, Subpart DDDDD

Item 100.1:

The Compliance Certification activity will be performed for:

Emission Unit: B-00002

Item 100.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

The owner or operator must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The owner or operator can keep the records off site for the remaining 3 years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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Condition 101: Recordkeeping and reporting.
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 60.48c, NSPS Subpart Dc

Item 101.1:

This Condition applies to Emission Unit: B-00002
Process: BLR

Item 101.2:

The facility shall maintain reports and records in accordance with the provisions of this section 40 CFR 60-Dc.48c.

Condition 102: Conversion of D/F measurements to TEQ units
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 102.1:

This Condition applies to:

Emission Unit: C00002
Process: CD2

Item 102.1:

This Condition applies to Emission Unit: C-00001

Item 102.2.3:

To convert D/F measurements to TEQ units, the owner/operator must use the procedures and equations in "Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and Dibenzofurans (CDDs and CDFs) and 1989 Update" (EPA-625/3-89-016), incorporated by reference in §63.1502 of Subpart RRR, available from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA, NTIS no. PB 90-145756.

Condition 103: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 103.1:

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

Emission Unit: C-00001
Process: CD1

Emission Unit: C-00002

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Facility DEC ID: 6405800178



Process: CD2

Regulated Contaminant(s):

CAS No: ONY100-00-0 TOTAL HAP

Item 103.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a thermal chip dryer must conduct a performance test to measure dioxin/furan emissions at the outlet of the control device while the unit processes only unpainted aluminum chips. The performance tests shall be performed according to the method listed in §63.1511(c) which requires Method 23 for dioxin/furans.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 104: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 212-2.3 (a)

Item 104.1:

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 104.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Carbon Monoxide (CO) 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). Facility has previously submitted the requisite BACT analysis and current operation is considered BACT for CO emissions from #1 Chip

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Dryer. Upon request from the Department facility shall reevaluate BACT for CO emissions associated with the #1 Chip Dryer.

Parameter Monitored: CARBON MONOXIDE
Upper Permit Limit: 13.3 pounds per hour
Reference Test Method: EPA method 10
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 105: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 212-2.3 (a)

Item 105.1:

The Compliance Certification 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 105.2:

Compliance Certification 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 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 RM 6C
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 106: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 212-3.1 (c) (3)

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Item 106.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00001

Emission Point: I0030

Process: CM1

Emission Source: C0030

Regulated Contaminant(s):

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

Item 106.2:

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. Facility must perform an updated NOx RACT determination prior to rebuilding the unit.

Reference Test Method: EPA RM 7E

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 107: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 212-2.3 (a)

Item 107.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00002

Regulated Contaminant(s):

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

Item 107.2:

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. Compliance testing shall be conducted upon request from the Department.

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Upper Permit Limit: 9.1 pounds per hour
Reference Test Method: EPA Method 7E
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 108: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 108.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00002

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

Item 108.2:

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. Compliance testing shall be conducted upon request from the Department.

Upper Permit Limit: 3.4 pounds per hour
Reference Test Method: EPA Method 5
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 109: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 212-2.3 (a)

Item 109.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00002
Process: CD2

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

New York State Department of Environmental Conservation

Permit ID: 6-4058-00178/00001

Facility DEC ID: 6405800178



Item 109.2:

Compliance Certification 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 PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 110: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement: 6 NYCRR 212-2.3 (a)

Item 110.1:

The Compliance Certification activity will be performed for:

Emission Unit: C-00002

Process: CD2

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 110.2:

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.

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Facility DEC ID: 6405800178



Upper Permit Limit: 10.0 pounds per hour
Reference Test Method: EPA RM 10
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 111: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 212-1.5 (e) (2)

Item 111.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00001

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

Item 111.2:

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 PERMIT MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 112: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 231-11.2 (b)

Item 112.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00001

Process: MHS

Emission Source: M0031



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

Item 112.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

As a result of the installation of the new #31 ingot furnace (Emission Source: M0031), the owner or operator must determine whether a significant net emissions increase has occurred as a result of the furnace modification. Such determination must present the actual baseline emissions and the actual emissions after the furnace modification.

Emissions of NO_x, PM-10, PM-2.5, VOC, CO, and CO₂(e) must be computed for each 12 month rolling period commencing the 12th month after startup of the #31 ingot furnace and ending with the completion of the fifth annual period after startup of the #31 ingot furnace. On an annual basis, the owner or operator shall submit to the Department a statement whether the owner or operator has completed the analysis. If the analysis shows that the modification has resulted in a significant net emissions increase for either NO_x, PM-10, PM-2.5, VOC, CO, or CO₂(e), the owner or operator must submit to the Department, within 30 days of such showing, a report of such calculation. The facility owner or operator, in addition to complying with the requirements above and any requirements under Part 201 of this Title, must maintain the following information for a minimum of five years:

- (1) a description of the #31 furnace project;
- (2) an identification of each new or modified emission source(s) including the associated processes and emission unit and including any exempt emission sources that were part of the project;
- (3) the calculation of the project emission potential for each new or modified emission source(s) (including exempt emission sources) including supporting documentation; and
- (4) the date the #31 furnace commenced operation.



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Upper Permit Limit: 0.40 pounds per ton

Reference Test Method: EPA RM 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 114: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 114.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00001

Process: MHS

Emission Source: M0031

Regulated Contaminant(s):

CAS No: 007647-01-0 HYDROGEN CHLORIDE

Item 114.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This group 1 furnace is considered a new secondary aluminum processing unit (SAPU) and will demonstrate compliance with the hydrogen chloride (HCl) emission limit of 0.4 pounds of HCl per ton of feed/charge. Owner will conduct an initial performance test of HCl emissions from #31 ingot furnace within 180 days of completion of furnace installation. Subsequent performance tests of HCl emissions will be performed once every five years.

Upper Permit Limit: 0.40 pounds per ton

Reference Test Method: EPA RM 26A

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 115: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

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

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Facility DEC ID: 6405800178



Item 115.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00001

Process: MHS

Emission Source: M0031

Regulated Contaminant(s):

CAS No: 001746-01-6 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

Item 115.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This group 1 furnace is considered a new secondary aluminum processing unit (SAPU) and will demonstrate compliance with the dioxins and furans (D/F) emission limit of 15 micrograms of D/F TEQ per megagram of feed/charge. Owner will conduct an initial performance test of D/F emissions from #31 ingot furnace within 180 days of completion of furnace installation. Subsequent performance tests of D/F emissions will be performed once every five years.

Upper Permit Limit: 15 micrograms of D/F TEQ per Mg

Reference Test Method: EPA RM 23

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 116: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement: 6 NYCRR 212-2.3 (a)

Item 116.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00002

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

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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 212-2.3(a) 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 PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 117: Flux Injection Rate compliance demonstration requirements Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 117.1:

This Condition applies to:

Emission Unit: A00003
Process: FBB

Item 117.1:

This Condition applies to Emission Unit: M-00002

Item 117.2.3:

Flux injection rate. The owner or operator must use these procedures to establish an operating parameter value or range for the total reactive chlorine flux injection rate.

(1) Continuously measure and record the weight of gaseous or liquid reactive flux injected for each 15 minute period during the HCl and D/F tests, determine and record the 15-minute block average weights, and calculate and record the total weight of the gaseous or liquid reactive flux for the 3 test runs;

(2) Record the identity, composition, and total weight of each addition of solid reactive flux for the 3 test runs;

(3) Determine the total reactive chlorine flux injection rate by adding the recorded measurement of the total weight of chlorine in the gaseous or liquid reactive flux injected and the total weight of chlorine in the solid reactive flux using Equation 5:

$$W_t = F_1W_1 + F_2W_2$$

Where,



Wt = Total chlorine usage, by weight;
F1 = Fraction of gaseous or liquid flux that is chlorine;
W1 = Weight of reactive flux gas injected;
F2 = Fraction of solid reactive chloride flux that is chlorine (e.g., F = 0.75 for magnesium chloride; and
W2 = Weight of solid reactive flux;

(4) Divide the weight of total chlorine usage (Wt) for the 3 test runs by the recorded measurement of the total weight of feed for the 3 test runs; and

(5) If a solid reactive flux other than magnesium chloride is used, the owner or operator must derive the appropriate proportion factor subject to approval by the applicable permitting authority.

Condition 118: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement: 6 NYCRR Part 226

Item 118.1:

The Compliance Certification activity will be performed for:

Emission Unit: P-00001

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

Item 118.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

A. Equipment Specifications

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

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



at 20 C.

B. Operating Requirements:

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

C. General Requirements:

A Person conducting solvent metal cleaning must:

- (1) Store solvent in covered containers and transfer or dispose of waste solvent in such a manner that less than 20 percent of the waste solvent (by weight) can evaporate into the atmosphere.
- (2) Maintain equipment to minimize leaks and fugitive emissions.
- (3) Display at the equipment location a conspicuous summary of proper operating procedures consistent with minimizing emissions of VOCs.
- (4) Keep the degreaser cover closed except when:
 - (a) parts are being placed into or being removed from the degreaser;
 - (b) adding or removing solvent from the degreaser;
 - (c) no solvent is in the degreaser; or
 - (d) when manually cleaning metal parts in the cold cleaning degreaser.
- (5) Create and retain a record of solvent consumption for five years. This record must be made available to the Department upon request.
- (6) Not clean sponges, fabric, wood, leather, paper products and other absorbent materials in a degreaser.
- (7) If using a cold cleaning degreaser that is subject to paragraph 226.3(a)(4), retain a record of the following three items for five years and provide these records to the Department upon request. An invoice, a bill of sale, a certificate covering multiple sales, a Material Safety Data Sheet (MSDS), or other appropriate documentation acceptable to the Department may be used to comply with this requirement.
 - (a) the name and address of the solvent supplier;
 - (b) the type of solvent including the product or vendor identification number; and
 - (c) the vapor pressure of the solvent measured in mm Hg at 20 °C (68 °F).
- (8) Include in the semiannual monitoring report and annual compliance certifications (required of all permittees subject to Title V) the solvent consumption required under (5) above, as well as a statement that the permittee's obligations under items (1) through (7) above have been met for the period of the report or certification.. This statement must be based on the permittees observations on

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a daily basis that the operation of the solvent metal cleaning process has met the above criteria. The permittee must maintain a log of instances when the above have not been met, and such statement must summarize these instances.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 119: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement: 6 NYCRR 212-2.5 (b)

Item 119.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Process: POT

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 119.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The following equation shall be used monthly 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 RM 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 120: Compliance Certification

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Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 249.3 (a)

Item 120.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Process: POT

Regulated Contaminant(s):

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

Item 120.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

Upper Permit Limit: 168 tons per year

Reference Test Method: EPA RM 201A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 121: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 249.3 (a)

Item 121.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

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Process: POT

Regulated Contaminant(s):

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

Item 121.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

Upper Permit Limit: 50 tons per year

Reference Test Method: EPA RM 7E

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 122: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 122.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Process: POT

Regulated Contaminant(s):

CAS No: 068188-85-2 FLUORIDES

Item 122.2:

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

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Fluorides (TF) in excess of the applicable limit
below:

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

Reference Test Method: EPA Method 13B or Alt
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 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 123: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.843(a)(2)(iv), Subpart LL

Item 123.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001
Process: POT

Item 123.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emissions of POM shall not exceed 0.55 kg/Mg (1.1 lb/ton)
of aluminum produced for each CWPB1 prebake
potline.

Compliance will be shown with requirements elsewhere in
the permit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 124: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.843(a)(3)(i), Subpart LL

Item 124.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001
Process: POT

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Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 126.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Process: POT

Item 126.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The initial performance test and all subsequent performance tests must be conducted in accordance with the applicable requirements of the general provisions in subpart A of this part, the approved test plan and the procedures in this section. Performance tests must be conducted under such conditions as the Administrator specifies to the owner or operator based on representative performance of the affected source for the period being tested. Upon request, the owner or operator must make available to the Administrator such records as may be necessary to determine the conditions of performance tests.

For each potline, the owner or operator shall measure and record the emission rates of TF, POM and PM exiting the outlet of the primary control system and the rate of secondary emissions exiting through each roof monitor, or for a plant with roof scrubbers, exiting through the scrubbers. Using the equation in paragraph (e)(1) of this section, the owner or operator shall compute and record the average of at least three runs semiannually 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 rates of TF, POM, and PM are equal to or less than the applicable emission limits in §63.843, §63.844, or §63.846.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 127: Performance Test Requirements - Previous Control Device Tests

Effective between the dates of 11/01/2016 and 10/31/2021

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



Item 127.1:

This Condition applies to:

Emission Unit: S00002

Process: BAK

Item 127.1:

This Condition applies to Emission Unit: S-00001

Process: POT

Item 127.2.3:

If the owner or operator has performed more than one test of total fluoride (TF) and polycyclic organic compound (POM) primary emissions from a potline or bake furnace control device(s) 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 128: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 128.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Process: POT

Item 128.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall determine compliance with the applicable TF emission limits by computing the emission rate (Ep) of TF, POM and PM from each potline using the following equation

(Equation 1):

$$Ep = [(Cs1 \times Qsd)1 + (Cs2 \times Qsd)2] / (PxK)$$

Where:

Ep=emission rate of TF, POM or PM from a potline, kg/Mg (lb/ton);

Cs1=concentration of TF, POM, or PM from the primary control system, mg/dscm (mg/dscf);

Qsd=volumetric flowrate of effluent gas corresponding to the appropriate subscript location,

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dscm/hr (dscf/min);
Cs2=concentration of TF, POM, or PM as measured for roof monitor emissions, mg/dscm (mg/dscf);
P=aluminum production rate Mg/hr (ton/hr);
K=conversion factor, 106 mg/kg (453,600 mg/lb) for TF, POM or PM;
1= subscript for primary control system effluent gas;
and
2=subscript for secondary control system or roof monitor effluent gas

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 129: Procedure to determine weights
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 129.1:

This Condition applies to:

Emission Unit: S00002
Process: BAK

Item 129.1:

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

Item 129.2.3:

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 130: Calculation of aluminum production rate
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.847(e)(6), Subpart LL

Item 130.1:

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

Item 130.2:

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 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 131: Selection of monitoring parameters - potlines and anode
bake furnaces**

Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 131.1:

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

Item 131.2:

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 132: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.848(a), Subpart LL

Item 132.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001
Process: POT

Regulated Contaminant(s):
CAS No: 068188-85-2 FLUORIDES

Item 132.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Using the procedures in §63.847 and in the approved test plan, the owner or operator shall monitor emissions of TF and PM from each potline by conducting annual performance tests on the primary control system and semiannual performance tests on the secondary emissions. The owner or operator shall compute and record the average semiannually from at least three runs for secondary emissions and the average from at least three runs for the primary control system to determine compliance with the applicable emission limit. The owner or operator must include all valid runs in the semiannual average. The duration of each run for secondary emissions must represent a complete operating cycle. Potline emissions shall be recorded as

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the sum of the average of at least three runs from the primary control system and the average of at least three runs from the roof monitor or secondary emissions control device

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 133: Corrective action procedures
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.848(h), Subpart LL

Item 133.1:

This Condition applies to:

Emission Unit: S00002
Process: BAK

Emission Unit: S00003
Process: GMS

Item 133.1:

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

Item 133.2.3:

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 134: Exceedances
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.848(i), Subpart LL

Item 134.1:

This Condition applies to:

Emission Unit: S00002
Process: BAK

Emission Unit: S00003
Process: GMS

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Item 134.1:

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

Item 134.2.3:

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 135: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.848(j), Subpart LL

Item 135.1:

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

Emission Unit: S-00002
Process: BAK

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

Item 135.2:

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 136: Accuracy and calibration requirements
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.848(k), Subpart LL

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Item 136.1:

This Condition applies to:

Emission Unit: S00002
Process: BAK

Emission Unit: S00003
Process: GMS

Item 136.1:

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

Item 136.2.3:

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 137: Definition of potline in Method 14
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 137.1:

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

Item 137.2:

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 138: Installation of manifolds for potlines subject to Method 14
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 138.1:

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

Item 138.2:

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 139: Compliance Certification

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Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 139.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Process: BAK

Regulated Contaminant(s):

CAS No: 068188-85-2 FLUORIDES

Item 139.2:

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 limit specified below:

- TF shall not exceed 0.20 lb/ton of green anode.

Monitoring and reporting requirements will be shown through other requirements elsewhere in the permit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 140: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.843(c)(2), Subpart LL

Item 140.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Process: BAK

Regulated Contaminant(s):

CAS No: 0NY505-00-0 POLYCYCLIC ORGANIC MATTER (POM)

Item 140.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

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Monitoring Description:

The owner or operator shall not discharge or cause to be discharged into the atmosphere any emissions of polycyclic organic matter (POM) in excess of the limit specified below:

- POM shall not exceed 0.18 lb/ton of green anode.

Compliance will be shown through Monitoring and reporting requirements elsewhere in the permit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 141: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.843(c)(3), Subpart LL

Item 141.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Process: BAK

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 141.2:

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 particulate matter (PM) in excess of the limit specified below:

- PM shall not exceed 0.20 lb/ton of green anode.

Compliance with monitoring and reporting requirements will be shown elsewhere in the permit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 142: Compliance Certification

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Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.843(c)(4), Subpart LL

Item 142.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Process: BAK

Regulated Contaminant(s):

CAS No: 007439-97-6 MERCURY

Item 142.2:

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 Mercury in excess of the limit specified below:

- Mercury shall not exceed 1.7 micrograms/dscm.

Compliance with monitoring and reporting requirements will be shown elsewhere in the permit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 143: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.847(d)(4), Subpart LL

Item 143.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Process: BAK

Item 143.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each anode bake furnace, the owner or operator shall measure and record the emission rate of TF, POM, PM and Hg exiting the exhaust stacks(s) of the primary emission control system. In accordance with paragraphs (e)(3) and

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(4) of this section, the owner or operator shall compute and record the average of at least three runs each year to determine compliance with the applicable emission limits for TF, POM, PM and Hg. Compliance is demonstrated when the emission rates of TF, POM, PM and Hg are equal to or less than the applicable TF, POM, PM and Hg emission limits in §63.843, §63.844 or §63.846.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 144: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 144.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002
Process: BAK

Item 144.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall determine compliance with the applicable TF, POM, and PM emission limits by computing the emission rate (Eb) from each anode bake furnace using the following

$$Eb = (Cs \times Qsd) / (Pb \times K)$$

Eb=emission rate of TF, POM, PM, kg/mg (lb/ton) of green anodes produced;

Cs=concentration of TF, POM, PM, mg/dscm (mg/dscf);

Qsd=volumetric flowrate of effluent gas, dscm/hr (dscf/hr);

Pb=quantity of green anode material placed in the furnace, mg/hr (ton/hr); and

K = conversion factor, 10⁶ mg/kg (453,600 mg/lb)

Measurements will be made as required elsewhere in the permit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION



Condition 145: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.847(e)(7), Subpart LL

Item 145.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Process: BAK

Item 145.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator shall determine compliance with the applicable total fluorides (TF) and polycyclic organic matter (POM) emission limits by calculating the rate that green anode material is introduced into the anode baking 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.

Monitoring Frequency: MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 146: Selection of monitoring parameters - potlines and anode bake furnaces

Effective between the dates of 11/01/2016 and 10/31/2021

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

Item 146.1:

This Condition applies to Emission Unit: S-00002

Process: BAK

Item 146.2:

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 147: Compliance Certification

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Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.848(c), Subpart LL

Item 147.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002

Process: BAK

Item 147.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

TF, PM, Hg and POM emissions from anode bake furnaces. Using the procedures in §63.847 and in the approved test plan, the owner or operator shall determine TF, PM, Hg and POM emissions from each anode bake furnace on an annual basis. The owner or operator shall compute and record the annual average of TF, PM, Hg and POM emissions from at least three runs to determine compliance with the applicable emission limits. A minimum of four dscm per run must be collected for monitoring of Hg emissions. The owner or operator must include all valid runs in the annual average.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 148: Compliance Certification

Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 212-3.1 (c) (1)

Item 148.1:

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

Item 148.2:

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

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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. Facility shall perform and submit, to the Department, a new VOC RACT determination for this emission source during the term of this permit.

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 149: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 212-3.1 (c) (3)

Item 149.1:

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 149.2:

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. The Facility has completed a BART evaluation, in which the current operating configuration is considered BART level control, which also satisfies RACT.

Reference Test Method: EPA RM 7E

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 150: Emission Limits for Existing Sources - Paste Production Plants

Effective between the dates of 11/01/2016 and 10/31/2021



Applicable Federal Requirement:40CFR 63.843(b), Subpart LL

Item 150.1:

This Condition applies to Emission Unit: S-00003
Process: GMS

Item 150.2:

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 151: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.843(b)(4), Subpart LL

Item 151.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00003
Process: GMS

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

Item 151.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emissions of PM from the Paste Production Plant shall not exceed 0.041 kg/Mg (0.082 lb/ton) of paste.

Compliance will be shown through requirement elsewhere in the permit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 152: Selection of monitoring parameters - paste production plants
Effective between the dates of 11/01/2016 and 10/31/2021



Applicable Federal Requirement:40CFR 63.847(h)(2), Subpart LL

Item 152.1:

This Condition applies to Emission Unit: S-00003
Process: GMS

Item 152.2:

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 specify and provide the basis or rationale for selecting parameters to be monitored and the associated operating limits for the emission control device.

**Condition 153: Capping Monitoring Condition
Effective between the dates of 11/01/2016 and 10/31/2021**

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 153.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

40 CFR 52.21

Item 153.2:

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

Item 153.3:

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

Item 153.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 153.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 153.6:

The Compliance Certification activity will be performed for:

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Emission Unit: S-00004
Process: M16

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

Item 153.7:

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. Compliance testing shall be completed upon request from the Department.

Upper Permit Limit: 15 tons per year

Reference Test Method: EPA RM 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 154: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement: 6 NYCRR 212-3.1 (c) (1)

Item 154.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00005
Process: PST

Regulated Contaminant(s):

New York State Department of Environmental Conservation

Permit ID: 6-4058-00178/00001

Facility DEC ID: 6405800178



CAS No: 0NY998-00-0 VOC

Item 154.2:

Compliance Certification shall include the following monitoring:

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

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.

Process Material: COAL TAR

Parameter Monitored: VOC

Upper Permit Limit: 3.0 pounds per hour

Reference Test Method: EPA RM 18 or 25A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 155: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:40CFR 63.843(d), Subpart LL

Item 155.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00005

Process: PST

Item 155.2:

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Permit ID: 6-4058-00178/00001

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Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Each pitch storage tank shall be equipped with an emission control system designed and operated to reduce inlet emissions of POM by 95 percent or greater. Testing shall be completed during the term of the permit to show compliance.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 156: Compliance Certification
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable Federal Requirement:6 NYCRR 212-3.1 (c) (1)

Item 156.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00005

Process: PUN

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 156.2:

Compliance Certification shall include the following monitoring:

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

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.

Process Material: COAL TAR

Parameter Monitored: VOC

Upper Permit Limit: 3.0 pounds per hour

Reference Test Method: EPA RM 18 or 25A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

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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 1/30/2017.

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



STATE ONLY ENFORCEABLE CONDITIONS

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined by subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the Department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

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

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

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

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

(4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

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

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

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and



standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

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

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.

Condition 157: Contaminant List

Effective between the dates of 11/01/2016 and 10/31/2021

Applicable State Requirement:ECL 19-0301

Item 157.1:

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

CAS No: 000111-42-2
Name: ETHANOL, 2,2'-IMINOBIS-

CAS No: 000463-58-1
Name: CARBONYL SULFIDE

CAS No: 000630-08-0
Name: CARBON MONOXIDE

CAS No: 001746-01-6
Name: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

CAS No: 003268-87-9
Name: 1,2,3,4,6,7,8,9-OCTACHLORODIBENZODIOXIN

CAS No: 007439-97-6
Name: MERCURY

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



CAS No: 007647-01-0
Name: HYDROGEN CHLORIDE

CAS No: 007664-39-3
Name: HYDROGEN FLUORIDE

CAS No: 007782-50-5
Name: CHLORINE

CAS No: 019408-74-3
Name: 1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN

CAS No: 035822-46-9
Name: 1,2,3,4,6,7,8-HEPTACHLORODIBENZODIOXIN

CAS No: 039001-02-0
Name: OCTACHLORODIBENZOFURANS, TOTAL

CAS No: 039227-28-6
Name: 1,2,3,4,7,8-HEXACHLORODIBENZO[B,E][1,4]DIOXIN

CAS No: 040321-76-4
Name: 1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN

CAS No: 051207-31-9
Name: 2,3,7,8-TETRACHLORODIBENZOFURAN

CAS No: 055673-89-7
Name: 1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN

CAS No: 057117-31-4
Name: 2,3,4,7,8-PENTACHLORODIBENZOFURAN

CAS No: 057117-41-6
Name: 1,2,3,7,8-PENTACHLORODIBENZOFURAN

CAS No: 057117-44-9
Name: 1,2,3,6,7,8-HEXACHLORODIBENZOFURAN

CAS No: 057653-85-7
Name: 1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN

CAS No: 060851-34-5
Name: 2,3,4,6,7,8-HEXACHLORODIBENZOFURAN

CAS No: 067562-39-4
Name: 1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN

CAS No: 068188-85-2
Name: FLUORIDES



CAS No: 070648-26-9
Name: 1,2,3,4,7,8-HEXACHLORODIBENZOFURAN

CAS No: 072918-21-9
Name: 1,2,3,7,8,9-HEXACHLORODIBENZOFURAN

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

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

CAS No: 0NY100-00-0
Name: TOTAL HAP

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

CAS No: 0NY505-00-0
Name: POLYCYCLIC ORGANIC MATTER (POM)

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

Condition 158: Malfunctions and start-up/shutdown activities
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable State Requirement:6 NYCRR 201-1.4

Item 158.1:

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment malfunctions, 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 department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source. Such reports shall state whether any violations occurred and, if so, whether they were unavoidable, include the time, frequency and duration of the maintenance and/or start-up/shutdown activities, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous stack monitoring and quarterly reporting requirements need not submit additional reports for equipment maintenance or start-up/shutdown activities for the facility to the department.

(c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred.

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When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates.

(d) The department may also require the owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

Condition 159: Compliance Demonstration
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable State Requirement: 6 NYCRR Part 209

Item 159.1:

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 POLYCYCLIC ORGANIC MATTER (POM)
CAS No: 068188-85-2 FLUORIDES

Item 159.2:

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 (POM) and opacity at this facility. As long as the facility is in compliance with the requirements of Subpart LL, contained elsewhere in this permit, then it is in compliance with the requirements of 6 NYCRR Part 209.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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Facility DEC ID: 6405800178



Item 163.1:

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

Item 163.2:

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. 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 2.5% on an annual average basis rolled monthly. The sulfur content shall be determined from vendor test data for each lot of coke received for processing. 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 CONTENT

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 60 days after the reporting period.



Applicable State Requirement:6 NYCRR 212-2.3 (b)

Item 165.1:

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

Emission Unit: F-00001

Regulated Contaminant(s):
CAS No: 007782-50-5 CHLORINE

Item 165.2:

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 completed upon request from the Department.

Upper Permit Limit: 10.0 pounds per hour

Reference Test Method: EPA Method 26

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

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

Condition 166: Compliance Demonstration
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable State Requirement:6 NYCRR 212-2.3 (b)

Item 166.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: C-00001
Process: CD1

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

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Permit ID: 6-4058-00178/00001

Facility DEC ID: 6405800178



Item 166.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In the event any of the characteristics of the uniform scrap being processed at the plant changes that will result in an increase in emissions above permitted levels of any regulated contaminant, a proper permit application shall be submitted as necessary.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2017.

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

Condition 167: Compliance Demonstration
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable State Requirement:6 NYCRR 212-2.3 (b)

Item 167.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: C-00002

Process: CD2

Regulated Contaminant(s):

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

Item 167.2:

Compliance Demonstration 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.

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 PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

New York State Department of Environmental Conservation

Permit ID: 6-4058-00178/00001

Facility DEC ID: 6405800178



Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 168: Compliance Demonstration
Effective between the dates of 11/01/2016 and 10/31/2021

Applicable State Requirement: 6 NYCRR 212-2.3 (b)

Item 168.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: M-00002

Regulated Contaminant(s):
CAS No: 007782-50-5 CHLORINE

Item 168.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

As required by 6 NYCRR Part 212-2.3(b), 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 26

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY