



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

TO: Interested Parties / Applicant
DATE: May 23, 2006
RE: Alcoa / 173-21817-00007
FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval – Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of a Title V operating permit or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency
401 M Street
Washington, D.C. 20406

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

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Mr. Samuel H. Bruntz
Alcoa, Inc. - Warrick Operations
Bldg. 860E., P.O. Box 10
Newburgh, IN 47629-0010

May 23, 2006

**Re: Third Significant Permit Modification 173-21817-00007
to SSM 173-16034-00007**

Dear Mr. Bruntz:

Alcoa, Inc. - Warrick Operations was issued a Significant Source Modification (SSM 173-16034-00007) to a yet to be issued Part 70 Operating Permit on March 28, 2003. A letter requesting changes to that permit was received on September 19, 2005. The permit modification consists of the following:

- (a) Revisions to the PM and PM₁₀ emission rate limits in Conditions D.1.1 (s) and (t) were made in order to account for the instances when the flux salt inputs at the two (2) #1 complex holding furnaces are greater than 0.85 pounds per ton of charge, but less than 3.25 pounds per ton of charge;
- (b) Condition D.1.1(u) was added to limit the input of flux salt to the two (2) #1 complex holding furnaces to no more than 3.25 pounds per ton of charge; and
- (c) Updates and corrections to various conditions from Sections A, B, C, and D.1 of the Part 70 Significant Source Modification as documented in Changes 1 - 11 of the TSD.

The changes in the Significant Permit Modification are documented in the Technical Support Document. All other conditions of the permit shall remain unchanged and in effect. For your convenience, the entire revised Significant Source Modification, with all modifications and amendments will be provided upon approval.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter contact Michael S. Schaffer, c/o OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204-2251, at 631-691-3395, ext. 23 or in Indiana at 1-800-451-6027 (ext 631-691-3395).

Sincerely,

Original Signed By:
Nisha Sizemore, Chief
Office of Air Quality

Attachments
MSS/MES

cc: File - Warrick County
U.S. EPA, Region V
Warrick County Health Department
Southwest Regional Office
Air Compliance Section Inspector - Richard Sekula
Compliance Branch
Administrative and Development Section
Technical Support and Modeling - Michelle Boner



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PERMIT MODIFICATION TO A PART 70 SIGNIFICANT SOURCE MODIFICATION

OFFICE OF AIR QUALITY

**Alcoa, Inc. - Warrick Operations
Jct. IN State Roads 66 & 61
Newburgh, Indiana 47639**

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this approval.

This approval is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Significant Source Modification 173-16034-00007	
Original Signed by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: March 28, 2003

First Significant Permit Modification 173-18905-00007, issued on September 24, 2004
Second Significant Permit Modification 173-20246-00007, issued on March 3, 2005

Third Significant Permit Modification No.: 173-21817-00007	
Issued by: Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: May 23, 2006

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Part 70 Source Modification Feed/Charge Quarterly Reports

SECTION A

SOURCE SUMMARY

This approval is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the emission units contained in Conditions A.1 through A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this approval pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates a stationary primary aluminum reduction source.

Responsible Official:	Vice President and General Manager
Source Address:	Jct. IN State Roads 66 & 61, Newburgh, Indiana 47629
Mailing Address:	Bldg. 860E, P.O. Box 10, Newburgh, Indiana 47629
General Source Phone:	812 - 853 - 6111
SIC Code:	3334
County Location:	Warrick County
Source Location Status:	Nonattainment for ozone under the 8-hour standard and PM _{2.5} Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD and Emission Offset Rules; Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source is approved to construct and operate the following emission units and pollution control devices:

- (a) One (1) flux gas injection identified as Pyrotek HD-2000 to be installed on melter 8M1 and two (2) flux gas injection systems identified as Pyrotek HD-2000 installed on melters 8M2, and 8M3 in the 8EMC casting complex exhausting to Stacks 134.80, 134.84, and 134.89 respectively with a capacity of 47.00 tons of molten aluminum, plant return scrap, purchased scrap, and alloy elements per hour each.
- (b) One (1) degassing unit, identified as 8EMC 8EH 4-rotor A622 in-line degassing unit, replacing the one (1) 8EMC 8EH Alcan compact degassing unit, exhausting to Stack 134.83, capacity: 70.0 tons of molten aluminum per hour.
- (c) One (1) degassing unit, identified as 8EMC 8WH 4-rotor A622 in-line degassing unit, replacing the one (1) 8EMC 8WH 3-rotor A662 in-line degassing unit, exhausting to Stack 134.87, capacity: 70.0 tons of molten aluminum per hour.
- (d) Two (2) degassing units, identified as Alcan Compact Degassing (ACD) units to be installed in conjunction with #1 east holding furnace and #1 west holding furnace in the 1HDC complex. These units will be replacing one (1) A622 in-line degassing unit in the 1HDC and one (1) A622 in-line degassing unit in the 5HDC and will be exhausting to Stacks 134.63 and 134.66 respectively with a capacity of 10.0 tons of molten aluminum per hour each.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source modification does not include any insignificant activities as defined in 326 IAC 2-7-1(21).

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22).
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION C GENERAL OPERATION CONDITIONS

C.1 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. 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.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

C.2 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) when operation begins, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

The PMP and the PMP extension notification do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

- (d) To the extent, but only to the extent, Permittee is required by 40 CFR Part 60/63 to have an OM&M Plan, such plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 and the OM&M Plan requirements shall be the applicable requirements for maintenance.

C.3 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1 (34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

C.4 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless alternative opacity limits are established in the D section of this permit:

- (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.6 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted by using ambient air quality modeling pursuant to 326 IAC 1-7-4.

Testing Requirements [326 IAC 2-7-6(1)]

C.7 Performance Testing [326 IAC 3-6][326 IAC 2-1.1-11]

- (a) Compliance testing on new emission units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this approval, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this approval, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.8 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.9 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

All monitoring and record keeping requirements specified by 40 CFR 63, Subpart RRR shall be implemented by March 24, 2003. Any other monitoring and record keeping requirements required by Section D shall be implemented when operation begins unless otherwise specified in Section D. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

C.10 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.11 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

-
- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
 - (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

- (1) initial inspection and evaluation;
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
- (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
- (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.12 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-5674 (ask for Compliance Section)
Facsimile Number: 317-233-5967

Southwest Regional Office: 812-380-2305, facsimile 812-380-2304

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
 - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
 - (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(10) be revised in response to an emergency.
 - (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
 - (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

C.13 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.14 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

- (a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.15 General Reporting Requirements [326 IAC 2-7-5(3)(C)]

- (a) The reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

C.16 Credible Evidence [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

- (a) One (1) flux gas injection identified as Pyrotek HD-2000 to be installed on melter 8M1 and two (2) flux gas injection systems identified as Pyrotek HD-2000 installed on melters 8M2, and 8M3 in the 8EMC casting complex exhausting to Stacks 134.80, 134.84, and 134.89 respectively with a capacity of 47.00 tons of molten aluminum, plant return scrap, purchased scrap, and alloy elements per hour each.
- (b) One (1) degassing unit, identified as 8EMC 8EH 4-rotor A622 in-line degassing unit, replacing the one (1) 8EMC 8EH Alcan compact degassing unit, exhausting to Stack 134.83, capacity: 70.0 tons of molten aluminum per hour.
- (c) One (1) degassing unit, identified as 8EMC 8WH 4-rotor A622 in-line degassing unit, replacing the one (1) 8EMC 8WH 3-rotor A662 in-line degassing unit, exhausting to Stack 134.87, capacity: 70.0 tons of molten aluminum per hour.
- (d) Two (2) degassing units, identified as Alcan Compact Degassing (ACD) units to be installed in conjunction with #1 east holding furnace and #1 west holding furnace in the 1HDC complex. These units will be replacing one (1) A622 in-line degassing unit in the 1HDC and one (1) A622 in-line degassing unit in the 5HDC and will be exhausting to Stacks 134.63 and 134.66 respectively with a capacity of 10.0 tons of molten aluminum per hour each.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Prevention of Significant Deterioration (PSD) and Emission Offset Minor Limitations [326 IAC 2-2] [326 IAC 2-3]

The following conditions shall apply:

8M1, 8M2, and 8M3 Melters

- (a) The annual feed/charge rate of each of melters 8M1, 8M2, and 8M3 shall not exceed 280,082 tons per year, with compliance demonstrated at the end of each month.
- (b) The total natural gas usage of melters 8M1, 8M2, and 8M3 shall not exceed 915 MMCF per year, with compliance demonstrated at the end of each month.
- (c) Particulate Matter (PM)
 - (1) The PM emissions from melters 8M1, 8M2, and 8M3 shall not exceed 0.118 pounds per ton of charge each for combined chlorine and flux salt input rates less than or equal to 1.29 pounds per ton of aluminum and for charges that contain 12,000 pounds or less of purchased oily scrap.
 - (2) The PM emissions from melters 8M1, 8M2, and 8M3 shall not exceed 0.16 pounds per ton of charge each for combined chlorine and flux salt input rates greater than 1.29 pounds of aluminum, but less than 2.35 pounds per ton of aluminum, for charges that contain no purchased oily scrap.
 - (3) The combined chlorine and flux salt input rates shall not exceed 2.35 pounds per ton of aluminum for charges that contain no purchased oily scrap.

- (4) The total PM emissions from all the three melters shall not exceed 49.57 tons per year.
 - (5) The PM emissions from melters 8M1, 8M2, and 8M3 shall not exceed the allowable emission rate specified by 40 CFR 63.1505(k)(1) each, for combined chlorine and flux input rates greater than 1.29 pounds per ton of aluminum but less than 2.27 pounds per ton of aluminum, for charges that contain greater than 12,000 pounds of purchased oily scrap but less than or equal to 26,667 pounds of purchased oily scrap.
- (d) Particulate Matter with aerodynamic diameter of less than or equal to 10 micrometers (PM₁₀)
- (1) The PM₁₀ emissions from melters 8M1, 8M2, and 8M3 shall not exceed 0.127 pounds per ton of charge each for combined chlorine and flux salt input rates less than or equal to 1.29 pounds per ton of aluminum.
 - (2) The PM₁₀ emissions from melters 8M1, 8M2, and 8M3 shall not exceed 0.17 pounds per ton of charge each for combined chlorine and flux salt input rates greater than or equal to 1.29 pounds per ton of aluminum, but less than 2.35 pounds per ton of aluminum for charges that contain no purchased oily scrap.
 - (3) The combined chlorine and flux salt input rates shall not exceed 2.35 pounds per ton of aluminum for charges that contain no purchased oily scrap.
 - (4) The total PM₁₀ emissions from all the three melters shall not exceed 53.54 tons per year.
 - (5) The PM₁₀ emissions from melters 8M1, 8M2, and 8M3 shall not exceed the allowable emission rate specified by 40 CFR 63.1505(k)(1), multiplied by 1.08 each for combined chlorine and flux input rates greater than 1.29 pounds per ton of aluminum but less than 2.27 pounds per ton of aluminum, for charges that contain greater than 12,000 pounds of purchased oily scrap but less than or equal to 26,667 pounds of purchased oily scrap.
- (e) The NO_x emissions from melters 8M1, 8M2, and 8M3 shall not exceed 138.1 lbs per MMCF of natural gas each and the total NO_x emissions from all the three melters shall not exceed 63.18 tons per year.

8EMC East Holding Furnace and 8EMC West Holding Furnace

- (f) The annual feed/charge rate of the 8EMC east holding furnace and the 8 EMC west holding furnace shall be limited to 823,440 tons per year, with compliance demonstrated at the end of each month.
- (g) The total natural gas usage of the 8EMC east holding furnace and the 8EMC west holding furnace shall not exceed 216 MMCF per year, with compliance demonstrated at the end of each month.
- (h) Particulate Matter (PM)
 - (1) The PM emissions from the 8EMC east holding furnace and the 8EMC west holding furnace shall be limited to 0.083 lbs/ton of charge for chlorine input rates less than or equal to 0.51 lbs/ton of aluminum.

- (2) The PM emissions from the 8EMC east holding furnace and the 8EMC west holding furnace shall be limited to 0.165 lbs/ton of charge for chlorine input rates greater than 0.51 lbs/ton of aluminum but less than 1.76 lbs/ton of aluminum.
 - (3) In no event shall chlorine exceed a maximum input rate of 1.76 lbs/ton of aluminum.
 - (4) The PM emissions from the 8EMC east holding furnace and the 8EMC west holding furnace shall be limited to the allowable emission rate specified by 40 CFR 63.1505 (k)(1) each, for combined chlorine and flux salt input rates greater than 1.2 pounds per ton of aluminum, but less than 1.76 pounds per ton of aluminum.
 - (5) In no event shall the combined chlorine and flux salt rate exceed a maximum input rate of 1.76 pounds per ton of aluminum.
 - (6) The total PM emissions from both holding furnaces (8EMC east holding furnace and the 8EMC west holding furnace) shall be limited to 34.17 tons per year.
- (i) Particulate Matter with aerodynamic diameter of less than or equal to 10 micrometers (PM₁₀)
- (1) The PM₁₀ emissions from the 8EMC east holding furnace and the 8EMC west holding furnace shall be limited to 0.121 pounds per ton of charge for chlorine input rates less than or equal to 0.51 pounds per ton of aluminum.
 - (2) The PM₁₀ emissions from the 8EMC east holding furnace and the 8EMC west holding furnace shall be limited to 0.241 pounds per ton of charge for chlorine input rates greater than 0.51 lbs/ton of aluminum but less than 1.76 pounds per ton of aluminum.
 - (3) In no event shall chlorine exceed a maximum input rate of 1.76 lbs/ton of aluminum.
 - (4) The PM₁₀ emissions from the 8EMC east holding furnace and the 8EMC west holding furnace shall be limited to the allowable emission rate specified by 40 CFR 63.1505(k)(1), multiplied by 1.46 each for combined chlorine and flux salt input rates greater than 1.2 pounds per ton of aluminum, but less than 1.76 pounds per ton of aluminum.
 - (5) In no event shall the combined chlorine and flux salt rate exceed a maximum input rate of 1.76 pounds per ton of aluminum.
 - (6) The total PM₁₀ emissions from both holding furnaces (8EMC east holding furnace and the 8EMC west holding furnace) shall be limited to 49.89 tons per year.
- (j) The NO_x emissions from the 8EMC east holding furnace and the 8EMC west holding furnace shall be limited to 147.1 lbs per MMCF of natural gas and the total NO_x emissions from both holding furnaces shall be limited to 15.89 tons per year.

8EMC 4-rotor A622 in-line degassing units

- (k) The annual feed/charge rate to the two (2) 8EMC 4-rotor A622 in-line degassing units shall each not exceed 411,720 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
- (l) The PM emissions from the 8EMC 8EH 4-rotor A622 in-line degassing unit shall not exceed 0.002 lbs/ton of feed/charge. The total PM emissions shall not exceed 0.412 tons per year.

- (m) The PM emissions from the 8EMC 8WH 4-rotor A622 in-line degassing unit shall not exceed 0.002 lbs/ton of feed/charge for chlorine input rates of 0.11 pounds per ton of aluminum or less. The total PM emissions shall not exceed 0.412 tons per year.
- (n) The PM₁₀ emissions from the two (2) 8EMC 4-rotor A622 in-line degassing units shall each not exceed 0.00208 pounds per ton of feed per/charge. The total PM₁₀ emissions shall not exceed 0.856 tons per year.

#1 Complex ACD Units

- (o) The feed/charge rate of each of the #1 complex ACD units shall not exceed 86,000 tons per year, with compliance demonstrated at the end of each month.
- (p) The PM emissions from the #1 complex ACD units shall not exceed 0.026 lbs per ton of molten metal and the total PM emissions the two (2) #1 complex ACD units shall not exceed 0.94 tons per year.
- (q) The PM₁₀ emissions from the #1 complex ACD units shall not exceed 0.027 lbs per ton of charge each and the total PM₁₀ emissions from both #1 complex ACD units shall not exceed 0.97 tons per year.

#1 Complex East Holding Furnace and #1 Complex West Holding Furnace

- (r) The total feed/charge of the #1 complex east holding furnace and the #1 complex west holding furnace shall not exceed 172,000 tons per year, with compliance demonstrated at the end of each month.
- (s) The PM emissions from the #1 complex east holding furnace and #1 complex west holding furnace shall not exceed 0.045 pounds per ton of charge each for flux salt input rates less than or equal to 0.85 pounds per ton of aluminum. The PM emissions from the #1 complex east holding furnace and #1 complex west holding furnace shall not exceed 0.084 pounds per ton of charge each for flux salt input rates greater than 0.85 pounds per ton of aluminum but less than 3.25 pounds per ton of aluminum. The total PM emissions from these furnaces shall not exceed 3.87 tons per year.
- (t) The PM₁₀ emissions from the #1 complex east holding furnace and #1 complex west holding furnace shall not exceed 0.066 pounds per ton of charge each for flux salt input rates less than or equal to 0.85 pounds per ton of aluminum. The PM₁₀ emissions from the #1 complex east holding furnace and #1 complex west holding furnace shall not exceed 0.123 pounds per ton of charge each for flux salt input rates greater than 0.85 pounds per ton of aluminum but less than 3.25 pounds per ton of aluminum. The total PM₁₀ emissions from these furnaces shall not exceed 5.65 tons per year.
- (u) In no event shall flux salt exceed a maximum input rate of 3.25 pounds per ton of aluminum.
- (v) The NO_x emissions from the #1 complex east holding furnace and #1 complex west holding furnace shall not exceed 0.148 lbs per ton of charge and the total NO_x emissions from these furnaces shall not exceed 12.58 tons per year.

Compliance with these limits render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emission Offset) not applicable.

This revised condition shall supersede Condition D.1.1 of SSM 173-16034-00007, issued on March 28, 2003, SPM 173-18905-00007, issued on September 24, 2004, and SPM 173-20246-00007, issued on March 3, 2005.

D.1.2 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart A]

The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-1, apply to melters 8M1, 8M2, 8M3, the two (2) #1 complex ACD units, and the two (2) 8EMC 4-rotor A662 in-line degassing units, except when otherwise specified in 40 CFR Part 63, Subpart RRR.

D.1.3 Secondary Aluminum Smelting Limits [40 CFR Part 63.1500 (Subpart RRR)]

(a) Pursuant to 40 CFR Part 63.1505, the following conditions shall apply to melters 8M1, 8M2, 8M3, the two (2) #1 complex ACD units, and the two (2) 8EMC 4-rotor A662 in-line degassing units.

(1) The Permittee shall be in compliance with the following emission limitations and operating requirements upon startup:

$$L_{C_{PM}} = \frac{\sum_{i=1}^n (L_{ti,PM} \times T_{ti})}{\sum_{i=1}^n (T_{ti})} \quad (Eq. 1)$$

where $L_{ti,PM}$ = The PM emission limit for individual emission unit i in paragraph (i)(1) and (2) of 40 CFR 63.1505.

T_{ti} = The feed/charge rate for individual emission unit i; and

L_{CPM} = The PM emission limit for secondary aluminum processing unit i.

The PM emission limit (L_{CPM}) for a Group 1 furnaces (Melters 8M1, 8M2, and 8M3) at a secondary aluminum production facility shall be 0.40 pounds per ton of feed/charge or per ton of aluminum produced. [40 CFR 63.1505(i)][40 CFR 63.1505(k)]

The PM emission limit (L_{CPM}) for the in-line degassers at a secondary aluminum production facility shall be 0.01 pounds per ton of feed/charge or per ton of aluminum produced. [40 CFR 63.1505(j)][40 CFR 63.1505(k)]

(2) The Permittee shall not discharge or allow to be discharged to the atmosphere any 3-day, 24-hour rolling average emissions of HCl in excess of:

$$L_{c_{HCl}} = \frac{\sum_{i=1}^n (L_{ti,HCl} \times T_{ti})}{\sum_{i=1}^n (T_{ti})} \quad (Eq. 2)$$

where $L_{ti,HCl}$ = The HCl emission limit for individual emission unit i in paragraph (i)(4) of 40 CFR 63.1505.

T_{ti} = The feed/charge rate for individual emission unit i; and

L_{cHCl} = The HCl emission limit for secondary aluminum processing unit i.

The HCl emission limit (L_{cHCl}) for a Group 1 furnaces (Melters 8M1, 8M2, and 8M3)

at a secondary aluminum production facility shall be 0.40 pounds per ton of feed/charge or per ton of aluminum produced. [40 CFR 63.1505(i)][40 CFR 63.1505(k)]

The HCl emission limit (L_{HCl}) for the in-line degassers (ACD units in conjunction with #1 east holding furnace and #1 west holding furnace as well as the two (2) 8EMC 4-rotor A662 in-line degassing units) at a secondary aluminum production facility shall be 0.04 pounds per ton of feed/charge or per ton of aluminum produced. [40 CFR 63.1505(j)][40 CFR 63.1505(k)]

- (3) The Permittee shall not discharge or allow to be discharged to the atmosphere any 3-day, 24-hour rolling average emissions of total tetra-, penta-, hexa-, and octachlorinated dibenzo dioxins and furans (D/F) in excess of:

$$L_{\text{CDF}} = \frac{\sum_{i=1}^n (L_{\text{tiDF}} \times T_{\text{ti}})}{\sum_{i=1}^n (T_{\text{ti}})} \quad (\text{Eq. 3})$$

where L_{tiDF} = The D/F emission limit for individual emission unit in the secondary aluminum processing unit; and

L_{CDF} = The D/F emission limit for secondary aluminum processing unit.

The D/F emission limit (L_{CDF}) for a Group 1 furnaces (Melts 8M1, 8M2, and 8M3) at a secondary aluminum production facility shall be 2.1×10^{-4} gr of D/F TEQ per ton of feed/charge or per ton of aluminum produced. Where TEQ is the toxicity equivalents for dioxins and furans as defined in Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzop-Dioxins and -Dibenzofurans (CDDs and CDFs) and 1989 Update. [40 CFR 63.1505 (i)] [40 CFR 63.1505(k)]

- (b) Identification, emission limits and means of compliance shall be posted on melters 8M1, 8M2, 8M3, the two (2) #1 complex ACD units, and the two (2) 8EMC 4-rotor A662 in-line degassing units.

D.1.4 Labeling [40 CFR Part 63.1506(b)]

The owner or operator shall provide and maintain easily visible labels that shall be posted at the furnaces the two (2) #1 complex ACD units, and the two (2) 8EMC 4-rotor A662 in-line degassing units. Said labels shall identify the applicable emission limits and means of compliance, including:

- (a) the type of affected source or emission unit (e.g., scrap dryer/delacquering kiln/decoating kiln, group 1 furnace, group 2 furnace, in-line fluxer); and
- (b) the applicable operational standard(s) and control method(s) (work practice or control device). This includes, but is not limited to, the type of charge to be used for a furnace (e.g., clean scrap only, all scrap, etc.), flux materials and addition practices, and the applicable operating parameter ranges and requirements as incorporated in the OM&M plan.

D.1.5 Operation, Maintenance, and Monitoring (OM&M) Plan [40 CFR 63.1510(b)]

The owner or operator must prepare and implement for each furnace, scrap shredder and scrap dryer and emission unit, a written operation, maintenance, and monitoring (OM&M) plan. The owner or

operator must submit the plan to the applicable permitting authority for review and approval as part of the application for a part 70 or part 71 permit. Any subsequent changes to the plan must be submitted to the applicable permitting authority for review and approval. Pending approval by the applicable permitting authority of an initial or amended plan, the owner or operator must comply with the provisions of the submitted plan. Each plan must contain the following information:

- (a) 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.
- (b) A monitoring schedule for each affected source and emission unit.
- (c) 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.
- (d) Procedures for the proper operation and maintenance of monitoring devices or systems used to determine compliance, including:
 - (1) Calibration and certification of accuracy of each monitoring device, at least once every 6 months, or according to the manufacturer's instructions; and
 - (2) 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.
- (e) Procedures for monitoring process and control device parameters, including procedures for annual inspections of afterburners, and if applicable, the procedure to be used for determining charge/feed (or throughput) weight if a measurement device is not used.
- (f) Corrective actions to be taken when process or operating parameters or add-on control device parameters deviate from the value or range established in 40 CFR 63.1510(b)(1), including:
 - (1) Procedures to determine and record the cause of an deviation or excursion, and the time the deviation or excursion began and ended; and
 - (2) Procedures for recording the corrective action taken, the time corrective action was initiated, and the time/date corrective action was completed.
- (g) 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.

D.1.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section C - Preventive Maintenance Plan, of this permit, is required for these facilities. To the extent, but only to the extent, the Permittee is required by 40 CFR Part 60 or 40 CFR Part 63 to have an OM&M Plan, such plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 and the OM&M Plan requirements shall be the applicable requirements for maintenance.

D.1.7 Alternative Opacity Limitation [326 IAC 5-1-5(b)]

Pursuant to 326 IAC 5-1-5(b):

- (a) #1 Complex (HDC)
The alternate opacity limit (AOL) applies to the exhaust stacks from the East and West Holding furnaces. This AOL shall take the following form:

During fluxing, opacity may exceed the applicable opacity limit in 326 IAC 5-1-2 for no more

than six (6) nonoverlapping six-minute average opacity readings not to exceed 80% opacity during fluxing only.

During all other periods of the production cycle (not including the fluxing process), opacity shall not exceed the applicable limit pursuant to 326 IAC 5-1-2

(b) #8 Complex (EMC)

The alternate opacity limit (AOL) applies to the exhaust stacks from the East Holding Furnace and West Holding furnace. This AOL shall take the following form:

During fluxing, opacity may exceed the applicable opacity limit in 326 IAC 5-1-2 for no more than six (6) nonoverlapping six-minute average opacity readings; two (2) of these sets of six-minute averages shall not exceed 85% opacity and the remaining four (4) six-minute averages shall not exceed 80% opacity during fluxing only.

During all other periods of the production cycle (not including the fluxing process), opacity shall not exceed the applicable limit pursuant to 326 IAC 5-1-2.

Compliance Determination Requirements

D.1.8 Testing Requirements [326 IAC 2-7-6(1),(6)] [40 CFR 63 Subpart RRR]

- (a) In order to demonstrate compliance with 40 CFR Part 63 Subpart RRR, 40 CFR 52.21, and 326 IAC 2-2, the Permittee shall, within 180 days after startup, perform PM, HCl, and D/F testing on a representative 8EMC melter (8M1 or 8M3) and PM and HCl testing on a representative #1 complex holder (#1 east holding furnace or #1 west holding furnace) ACD unit as well as a representative 8EMC 4-rotor A662 in-line degassing unit, using methods as approved by the Commissioner, in accordance with the requirements in 40 CFR 63, Subpart A and 40 CFR 63, Subpart RRR. The Permittee shall conduct the tests while the affected emission units are operating at the highest production levels with charge materials representative of the range of materials processed by the units and at the highest reactive fluxing rates.

Testing shall be conducted in accordance with Section C - Performance Testing.

These tests shall be repeated every five (5) years.

Recently conducted and approved D/F stack tests shall satisfy the D/F stack testing required by this condition.

- (b) The Permittee shall establish a minimum or maximum operating parameter value, or an operating parameter range for each parameter to be monitored as required by 40 CFR 63.1510 that ensures compliance with the applicable emission limit for D/F. The Permittee may use existing data in addition to the results of the performance test to establish operating parameter values for compliance monitoring provided the requirements of 40 CFR 63.1511(g) are met [63.1511(g)].
- (c) To verify that the NO_x emissions do not exceed PSD significant levels pursuant to 326 IAC 2-2 and 40 CFR 52.21, the Permittee shall, within 180 days after startup, perform NO_x testing on a representative 8EMC melter (8M1 or 8M3), 8EMC holder (east holding furnace or west holding furnace), and #1 complex holder (east holding furnace or west holding furnace).

D.1.9 Feed/Charge Determination [40 CFR 63.1506(d)]

Pursuant to 40 CFR 63.1506, the Permittee shall install and operate a device that measures and records or otherwise determine the weight of feed/charge (or throughput) for each operating cycle or time period used in the performance test. The Permittee shall operate each measurement system or other weight determination procedure in accordance with the Operation, Maintenance, and Monitoring

Plan.

Alternatively, the Permittee may choose to measure and record aluminum production weight from an affected emission unit rather than feed/charge weight provided that the aluminum production weight is measured for all emission units within a secondary aluminum processing unit and all calculations to demonstrate compliance with the emission limits for secondary aluminum processing units are based on aluminum production weight rather than feed/charge weight.

D.1.10 Secondary Aluminum Smelting Compliance Determination [40 CFR Part 63, Subpart RRR]

Pursuant to 40 CFR Part 63.1510, the following conditions shall apply to melters 8M1, 8M2, 8M3, #1 east holding furnace ACD unit, #1 west holding furnace ACD unit, and the two (2) 4-rotor A662 in-line degassing units:

- (a) Pursuant to 40 CFR 63.1510(j), for all furnaces at this source, the Permittee shall:
- (1) Install, calibrate, operate, and maintain a device to continuously measure and record the weight of gaseous or reactive liquid flux injected into each furnace and each ACD unit. The monitoring system must record the weight for each fifteen (15) minute period, during which reactive fluxing occurs, over the same operating cycle or time period used in the performance test. The accuracy of the weight measurement device must be +/- 1% of the weight of the reactive component of the flux being measured. The Permittee may apply to IDEM, OAQ to use a weight measurement device of alternative accuracy in cases where the reactive flux flow rates are so low as to make the use of a weight measurement device of within one (1) percent accuracy impracticable. The Permittee shall verify the calibration of the weight measurement device in accordance with the schedule specified by the manufacturer, or if no calibration schedule is specified, at least once every six (6) months.
 - (2) Calculate and record the flux injection rate (kg/Mg or lb/ton) for each operating cycle or time period used in the performance test using the procedure in 40 CFR 63.1512(o).
 - (3) Record, for each fifteen (15) minute time period during each operating cycle or time period used in the performance test during which reactive fluxing occurs, the time, weight, and type of flux for each addition of reactive flux.
 - (4) Calculate and record the total reactive flux injection rate for each operating cycle or time period used in the performance test.
- (b) 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 63.1510(b), the following information [40 CFR 63.1510(s)(1)]:
- (1) The identification of each emission unit in the secondary aluminum processing unit;
 - (2) The specific control technology of pollution prevention measure to be used for each emission unit in the secondary aluminum processing unit and the date of its installation or application;
 - (3) The emission limit calculated for each secondary aluminum processing unit and performance test result with supporting calculations demonstrating initial compliance with each applicable emission limit;
 - (4) Information and data demonstrating compliance for each emission unit with all applicable design equipment work practice or operational standards of Subpart RRR; and

- (5) 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 63.1510(t).
- (c) The SAPU compliance procedures within the OM&M plan may not contain any of the provisions provided in 40 CFR 63.1510(s)(2)(i) through (iv). [40 CFR 63.1510(s)(2)]

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.11 Labeling [40 CFR 63.1510(c)]

The owner or operator shall, for each furnace and degassing unit, inspect the labels required in Condition D.1.4 at least once per calendar month to confirm that the posted labels as required by the operational standard in 40 CFR 63.1506(b) are intact and legible.

D.1.12 Feed/Charge Determination [40 CFR 63.1510(e)]

The owner or operator of the furnaces must install, calibrate, operate, and maintain a device to measure and record the total weight of feed/charge to, or the aluminum production from each furnace emission unit over the same operating cycle or time period used in the performance test. Feed/charge or aluminum production within SAPUs must be measured and recorded on an emission unit-by-emission unit basis. The accuracy of the weight measurement device or procedure must be ± 1 percent of the weight being measured.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.13 Record Keeping Requirements

- (a) To document compliance with Condition D.1.1, the Permittee shall maintain records of the feed/charge rate and the natural gas consumption of each of melters 8M1, 8M2, 8M3 for each 12 consecutive month period.
- (b) To document compliance with Condition D.1.1, the Permittee shall maintain records of the total feed/charge rate and the natural gas consumption of the 8 EMC east and west holding furnaces for each 12 consecutive month period.
- (c) To document compliance with Condition D.1.1(k), the Permittee shall maintain records of the feed/charge rate to the two (2) 8EMC 4-rotor A622 in-line degassing units each month.
- (d) To document compliance with Condition D.1.1, the Permittee shall maintain record of the feed/charge rate of the #1 complex ACD units for each 12 consecutive month period.
- (e) To document compliance with Condition D.1.1, the Permittee shall maintain record of the feed/charge rate of the #1 complex east and the #1 complex west holding furnaces for each 12 consecutive month period.
- (f) To document compliance with Conditions D.1.1(c)(3), (d)(3), (h)(3) and (5), (i)(3) and (5), and (u), the Permittee shall record the 15-minute block average weights of chlorine and flux salt input to each holding and melting furnace.
- (g) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.14 Secondary Aluminum Production Record Keeping Requirements [40 CFR Part 63, Subpart RRR]

Pursuant to 40 CFR Part 63.1517, the owner or operator shall:

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

- (b) 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. Compliance with Section C - General Record Keeping Requirements shall satisfy this requirement.
- (c) The owner or operator may retain records on microfilm, computer disks, magnetic tape, or microfiche; and report required information on paper or on a labeled computer disk using commonly available and EPA -compatible computer software.
- (d) In addition to the general records required by 40 CFR 63.1510(b), the owner or operator must maintain records of:
 - (1) For each group 1 furnace and each in-line fluxer at this source, records of 15-minute block average weights of gaseous or liquid reactive flux injection, total reactive flux injection rate and calculations (including records of the identity, composition, and weight of each addition of gaseous, liquid or solid reactive flux), including records of any period the rate exceeds the compliant operating parameter value and corrective action taken.
 - (2) For each furnace and each in-line fluxer, weights for each operating cycle or time period used in the performance test.
 - (3) Approved site-specific monitoring plan for a group 1 furnace without add-on air pollution control devices with records documenting conformance with the plan.
 - (4) Records of monthly inspections for proper unit labeling for each affected source and emission unit subject to labeling requirements.
 - (5) Records for any approved alternative monitoring or test procedure.
 - (6) Current copy of all required plans, including any revisions, with records documenting conformance with the applicable plan, including:
 - (i) Startup, shutdown, and malfunction plan;
 - (ii) For major sources, OM&M plan; and
 - (7) For each SAPU, records of the 3-day, 24-hour rolling average emissions of PM, HCl, and/or D/F emissions calculations.

D.1.15 Secondary Aluminum Production Reporting Requirements [40 CFR Part 63, Subpart RRR]

Pursuant to 40 CFR 63.1510 and 63.1516 the owner or operator shall:

- (a) Submit initial notifications, upon startup, to the applicable permitting authority as described below.

The owner or operator must provide notification of the anticipated date for conducting performance tests and visible emission observations. The owner or operator must notify the Administrator of the intent to conduct a performance test at least 60 days before the performance test is scheduled; notification of opacity or visible emission observations for a performance test must be provided at least 30 days before the observations are scheduled to take place.

- (b) Each owner or operator must submit a notification of compliance status report within 60 days after the compliance dates specified in 40 CFR 63.1501. The notification must be signed by the responsible official who must certify its accuracy. A complete notification of compliance status report must include the information specified in paragraphs (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 40 CFR 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.
 - (3) Unit labeling as described in 40 CFR 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, afterburner operating temperature, fabric filter inlet temperature), including the operating cycle or time period used in the performance test.
 - (5) Approved OM&M plan.
 - (6) Startup, shutdown, and malfunction plan, with revisions.
- (c) The owner or operator must develop and implement a written plan that contains specific procedures to be followed for operating and maintaining the source during periods of startup, shutdown, and malfunction, and a program of corrective action for malfunctioning process. The owner or operator shall also keep records of each event as required by 40 CFR 63.10(b) and record and report if an action taken during a startup, shutdown, or malfunction is not consistent with the procedures in the plan as described in 40 CFR 63.6(e)(3). In addition to the information required in 40 CFR 63.6(e)(3), the plan must include:
- (1) Procedures to determine and record the cause of the malfunction and the time the malfunction began and ended; and
 - (2) Corrective actions to be taken in the event of a malfunction of a process, including procedures for recording the actions taken to correct the malfunction or minimize emissions.
- (d) The owner or operator must submit semiannual reports within 60 days after the end of each 6-month period. Each report must contain the information specified in 40 CFR 63.10(c). When no deviations of parameters have occurred, the owner or operator must submit a report stating that no excess emissions occurred during the reporting period.

A report must be submitted if any of these conditions occur during a 6-month reporting period:

- (1) An excursion of a compliant process or operating parameter value or range (e.g., lime injection rate or screw feeder setting, total reactive chlorine flux injection rate, afterburner operating temperature, fabric filter inlet temperature, definition of acceptable scrap, or other approved operating parameter).
 - (2) An action taken during a startup, shutdown, or malfunction was not consistent with the procedures in the plan as described in 40 CFR 63.6(e)(3).
 - (3) An affected source (including an emission unit in a secondary aluminum processing unit) was not operated according to the requirements of Subpart RRR.
 - (4) A deviation from the 3-day, 24-hour rolling average emission limit for a secondary aluminum processing unit.
- (e) 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.

D.1.16 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.1 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

Part 70 Source Modification Certification

Source Name: Alcoa, Inc. - Warrick Operations
Source Address: Jct. IN State Roads 66 & 61, Newburgh, Indiana 47629
Mailing Address: Bldg. 860E, P.O. Box 10, Newburgh, Indiana 47629
Source Modification No.: 173-16034-00007

This certification shall be included when submitting monitoring, testing reports/results
or other documents as required by this approval.

Please check what document is being certified:

Test Result (specify) _____

Report (specify) _____

Notification (specify) _____

Affidavit (specify) _____

Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION**

Part 70 Source Modification Feed/Charge Quarterly Report

Source Name: Alcoa, Inc. - Warrick Operations
 Source Address: Jct. IN State Roads 66 & 61, Newburgh, Indiana 47629
 Mailing Address: Bldg. 860E, P.O. Box 10, Newburgh, Indiana 47629
 Source Modification No.: 173-16034-00007
 Facility: 8M1, 8M2, and 8M3
 Parameter: Feed/Charge (see D.1.1)
 Limit: 280,082 tons per twelve (12) consecutive month period, rolled on a monthly basis each

YEAR: _____

Month	Column 1			Column 2			Column 1 + Column 2		
	This Month			Previous 11 Months			12 Month Total		
	8M1	8M2	8M3	8M1	8M2	8M3	8M1	8M2	8M3

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

Attached a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION**

Part 70 Source Modification Feed/Charge Quarterly Report

Source Name: Alcoa, Inc. - Warrick Operations
 Source Address: Jct. IN State Roads 66 & 61, Newburgh, Indiana 47629
 Mailing Address: Bldg. 860E, P.O. Box 10, Newburgh, Indiana 47629
 Source Modification No.: 173-16034-00007 and 107-18905-00007
 Facility: 8M1, 8M2, and 8M3
 Parameter: Natural gas usage (see D.1.1)
 Limit: 915 MMCF per twelve (12) consecutive month period, rolled on a monthly basis total

YEAR:

Month	Column 1			Column 2			Column 1 + Column 2		
	This Month			Previous 11 Months			12 Month Total		
	8M1	8M2	8M3	8M1	8M2	8M3	8M1	8M2	8M3
Total									

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____
 Title / Position: _____
 Signature: _____
 Date: _____
 Telephone: _____

Attached a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION**

Part 70 Source Modification Feed/Charge Quarterly Report

Source Name: Alcoa, Inc. - Warrick Operations
 Source Address: Jct. IN State Roads 66 & 61, Newburgh, Indiana 47629
 Mailing Address: Bldg. 860E, P.O. Box 10, Newburgh, Indiana 47629
 Source Modification No.: 173-16034-00007
 Facility: 8EMC east holding and 8EMC west holding furnace
 Parameter: Feed/Charge (see D.1.1)
 Limit: 823,440 tons per twelve (12) consecutive month period, rolled on a monthly basis (total)

YEAR: _____

Month	Column 1		Column 2		Column 1 + Column 2	
	This Month		Previous 11 Months		12 Month Total	
	East HF	West HF	East HF	West HF	East HF	West HF
Total						

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____
 Title / Position: _____
 Signature: _____
 Date: _____
 Telephone: _____

Attached a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION**

Part 70 Source Modification Feed/Charge Quarterly Report

Source Name: Alcoa, Inc. - Warrick Operations
 Source Address: Jct. IN State Roads 66 & 61, Newburgh, Indiana 47629
 Mailing Address: Bldg. 860E, P.O. Box 10, Newburgh, Indiana 47629
 Source Modification No.: 173-16034-00007 and 173-18905-00007
 Facility: 8EMC east and 8EMC west holding furnaces
 Parameter: Natural gas usage (see D.1.1)
 Limit: 216 MMCF per twelve (12) consecutive month period, rolled on a monthly basis total

YEAR:

Month	Column 1		Column 2		Column 1 + Column 2	
	This Month		Previous 11 Months		12 Month Total	
	East HF	West HF	East HF	West HF	East HF	West HF
Total						

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____
 Title / Position: _____
 Signature: _____
 Date: _____
 Telephone: _____

Attached a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION**

Part 70 Source Modification Feed/Charge Quarterly Report

Source Name: Alcoa, Inc. - Warrick Operations
 Source Address: Jct. IN State Roads 66 & 61, Newburgh, Indiana 47629
 Mailing Address: Bldg. 860E, P.O. Box 10, Newburgh, Indiana 47629
 Source Modification No.: SSM 173-16034-00007
 Facilities: 8EMC 8EH and 8WH 4-rotor A622 in-line degassing units
 Parameter: Feed/Charge Rate
 Limit: Each not to exceed 411,720 tons per twelve (12) consecutive month period,
 with compliance determined at the end of each month

YEAR: _____

Month	Feed/Charge Rate (tons)		Feed/Charge Rate (tons)		Feed/Charge Rate (tons)	
	This Month		Previous 11 Months		12 Month Total	
	8EMC 8EH	8EMC 8WH	8EMC 8EH	8EMC 8WH	8EMC 8EH	8EMC 8WH

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

Attached a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

Part 70 Source Modification Feed/Charge Quarterly Report

Source Name: Alcoa, Inc. - Warrick Operations
Source Address: Jct. IN State Roads 66 & 61, Newburgh, Indiana 47629
Mailing Address: Bldg. 860E, P.O. Box 10, Newburgh, Indiana 47629
Source Modification No.: 173-16034-00007
Facility: #1 complex ACD
Parameter: Feed/Charge (see D.1.1)
Limit: 86,000 tons per twelve (12) consecutive month period, rolled on a monthly basis

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Telephone: _____

Attached a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION**

Part 70 Source Modification Feed/Charge Quarterly Report

Source Name: Alcoa, Inc. - Warrick Operations
 Source Address: Jct. IN State Roads 66 & 61, Newburgh, Indiana 47629
 Mailing Address: Bldg. 860E, P.O. Box 10, Newburgh, Indiana 47629
 Source Modification No.: 173-16034-00007
 Facility: #1 complex east holding furnace and #1 complex west holding furnace
 Parameter: Feed/Charge (see D.1.1)
 Limit: 172,000 tons per twelve (12) consecutive month period, rolled on a monthly basis (total)

YEAR: _____

Month	Column 1		Column 2		Column 1 + Column 2	
	This Month		Previous 11 Months		12 Month Total	
	East HF	West HF	East HF	West HF	East HF	West HF
Total						

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____
 Title / Position: _____
 Signature: _____
 Date: _____
 Telephone: _____

Attached a signed certification to complete this report.

**Indiana Department of Environmental Management
Office of Air Quality**

**Technical Support Document (TSD) for a Significant Permit Modification
To an Existing Part 70 Significant Source Modification**

Source Description and Location	
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Source Name:	Alcoa, Inc. - Warrick Operations
Source Location:	Jct. IN State Roads 66 & 61, Newburgh, Indiana 47629-0010
County:	Warrick
SIC Code:	3334
Operation Permit No.:	T 173-6627-00007
Operation Permit Issuance Date:	Yet to be Issued
Significant Source Modification No.:	SSM 173-16034-00007
Source Modification Issuance Date:	March 28, 2003
Significant Permit Modification No.:	SPM 173-21817-00007
Permit Reviewer:	Michael S. Schaffer

Existing Approvals	
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The source applied for a Part 70 Operating Permit T 173-6627-00007 on September 19, 1996. The source has been operating under previous approvals including, but not limited to the following:

- (a) Significant Permit Modification 173-20246-00007, issued on March 3, 2005;
- (b) Significant Source Modification 173-18836-00007, issued on February 25, 2005;
- (c) Minor Source Modification 173-20390-00007, issued on December 14, 2004;
- (d) Significant Permit Modification 173-18905-00007, issued on September 24, 2004;
- (e) Significant Source Modification 173-17780-00007, issued on July 21, 2004;
- (f) Significant Source Modification 173-18465-00007, issued on March 16, 2004;
- (g) Significant Source Modification 173-16034-00007, issued on March 28, 2003;
- (h) Administrative Amendment 173-16991-00007, issued on January 30, 2003;
- (i) Administrative Amendment 173-16685-00007, issued on December 27, 2002;
- (j) Significant Source Modification 173-15661-00007, issued on August 23, 2002;
- (k) Minor Source Modification 173-15352-00007, issued on April 23, 2002;
- (l) Minor Source Modification 173-14944-00007, issued on December 5, 2001;
- (m) Significant Source Modification 173-14145-00007, issued on July 7, 2001;
- (n) Minor Source Modification 173-12886-00007, issued on February 1, 2001;
- (o) Minor Permit Modification 173-12588-00007, issued on October 10, 2000;

- (p) Minor Source Modification 173-12676-00007, issued on October 2, 2000;
- (q) Minor Permit Modification 173-11419-00007, issued on June 9, 2000;
- (r) Significant Source Modification 173-11342-00007, issued on May 23, 2000;
- (s) Significant Source Modification 173-11598-00007, issued on February 3, 2000;
- (t) Administrative Amendment 173-11403-00007, issued on January 28, 2000;
- (u) CP 173-11414-00007, issued on December 15, 1999;
- (v) CP 10913-00007, issued on October 1, 1999;
- (w) Exemption 173-10598-00007, issued on September 20, 1999;
- (x) Minor Source Modification 173-10959-00007, issued on July 15, 1999;
- (y) Exemption 173-10142-00007, issued on October 28, 1998;
- (z) Registration 173-9960-00007, issued on August 6, 1998;
- (aa) Registration 173-9574-00007, issued on August 6, 1998;
- (bb) Exemption 173-9620-00007, issued on June 17, 1998;
- (cc) Exemption 173-9644-00007, issued on May 5, 1998;
- (dd) Administrative Amendment 173-8566-00007, issued on May 29, 1997;
- (ee) Registration 173-8161-00007, issued on May 19, 1997;
- (ff) Registration 173-8193-00007, issued on May 13, 1997;
- (gg) Administrative Amendment 173-6196-00007, issued on September 27, 1996;
- (hh) Registration 173-6325-00007, issued on August 28, 1996;
- (ii) Administrative Amendment 173-5524-00007, issued on May 6, 1996;
- (jj) Registration 173-5449-00007, issued on April 11, 1996;
- (kk) Administrative Amendment 173-4611-00007, issued on November 30, 1995; and
- (ll) CP173-4501-00007, issued on June 16, 1995.

County Attainment Status

The source is located in Warrick County.

Pollutant	Status
PM ₁₀	attainment
PM _{2.5}	nonattainment
SO ₂	attainment
NO ₂	attainment
1-hour Ozone	attainment
8-hour Ozone	basic nonattainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Warrick County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for emission offset, 326 IAC 2-3.
- (b) U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Warrick County as nonattainment for PM_{2.5}. On March 7, 2005 the Indiana Attorney General's Office, on behalf of IDEM, filed a law suit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions pursuant to the requirements of Emission Offset, 326 IAC 2-3.
- (c) Warrick County has been classified as attainment or unclassifiable in Indiana for PM₁₀, SO₂, CO, and lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Source Status

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

Pollutant	Emissions (tons/year)
PM	Greater than 100
PM ₁₀	Greater than 100
SO ₂	Greater than 100
VOC	Greater than 100
CO	Greater than 100
NO _x	Greater than 100

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because an attainment regulated pollutant is emitted at a rate of one hundred (100) tons per year or more, and it is one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-

1(gg)(1).

- (b) This existing source is a major stationary source, under Emission Offset (326 IAC 2-3), because a nonattainment regulated pollutant is emitted at a rate of one hundred (100) tons per year or more.
- (c) These emissions are based upon this source's Part 70 Operating Permit application that IDEM, OAQ received on September 19, 1996.

The table below summarizes the potential to emit HAPs for the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

HAPs	Potential To Emit (tons/year)
Single	Greater than 10
Total	Greater than 25

This existing source is a major source of HAPs, as defined in 40 CFR 63.41, because HAP emissions are greater than ten (10) tons per year for a single HAP and greater than twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2003 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM _{2.5}	418
PM ₁₀	651
SO ₂	3,244
VOC	609
CO	24,921
NO _x	222
HAP (lead)	0.01

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Alcoa, Inc. - Warrick Operations on September 19, 2005, relating to the revision of the short-term PM and PM₁₀ limits for #1 east complex holding furnace and #1 complex west complex holding furnace in Condition D.1.1(s) and (t) of SPM 173-20246-00007, issued on March 3, 2005. SPM 173-20246-00007 is the second significant permit modification to SSM 173-16034-00007, issued on March 28, 2003.

As a result of Alcoa, Inc. - Warrick Operations modification request, the permit modification will consist of the following:

- (a) Revisions to the PM and PM₁₀ emission rate limits in Conditions D.1.1 (s) and (t) will be made in order to account for the instances when the flux salt inputs at the two (2) #1 complex holding furnaces are greater than 0.85 pounds per ton of charge, but less than 3.25 pounds per ton of charge;
- (b) Condition D.1.1(u) will be added to limit the input of flux salt to the two (2) #1 complex holding furnaces to no more than 3.25 pounds per ton of charge; and
- (c) Updates and corrections to various conditions from Sections A, B, C, and D.1 of the Part 70 Significant Source Modification as documented in Changes 1 - 8 of the Proposed Changes section of this document.

Enforcement Issues

There are no pending enforcement actions related to this modification.

Emission Calculations

The annual emissions for this source will remain unchanged as a result of this modification. Therefore, no additional emissions calculations are necessary at this time.

Permit Level Determination – Part 70

There is no change in the source-wide potential to emit as a result of this modification

The Part 70 Operating Permit is being modified through a Significant Permit Modification to a Significant Source Modification because this modification involves significant changes to the existing Significant Source Modification. The source has requested to revise the short-term PM and PM₁₀ emission factor limits for the #1 complex east holding furnace and #1 complex west holding furnace that are in Conditions D.1.1(s) and (t) of SPM 173-20246-00007, issued on March 3, 2005. Therefore, if the Part 70 Operating Permit was issued, this modification would have been performed pursuant to 326 IAC 2-7-12(d).

Permit Level Determination – PSD or Emission Offset

This modification to an existing major stationary source is not major because there are no emissions increases. Therefore, pursuant to 326 IAC 2-2, the PSD and Emission Offset requirements do not apply.

Due to this modification, the limits in Condition D.2.1 of SPM 173-20246-00007, issued on March 3, 2005 for the #1 complex east holding furnace and #1 complex west holding furnace will be revised to the following:

- (a) The PM emissions from the #1 complex east holding furnace and #1 complex west holding furnace shall not exceed 0.045 pounds per ton of charge each for flux salt input rates less than or equal to 0.85 pounds per ton of aluminum. The PM emissions from the #1 complex east holding furnace and #1 complex west holding furnace shall not exceed 0.084 pounds per ton of charge each for flux salt input rates greater than 0.85 pounds per ton of aluminum but less than 3.25 pounds per ton of aluminum. The total PM emissions from these furnaces shall not exceed 3.87 tons per year.
- (b) The PM₁₀ emissions from the #1 complex east holding furnace and #1 complex west holding furnace shall not exceed 0.066 pounds per ton of charge each for flux salt input rates less than or equal to 0.85 pounds per ton of aluminum. The PM₁₀ emissions from the #1 complex east holding furnace and #1 complex west holding furnace shall not exceed 0.123 pounds per

ton of charge each for flux salt input rates greater than 0.85 pounds per ton of aluminum but less than 3.25 pounds per ton of aluminum. The total PM₁₀ emissions from these furnaces shall not exceed 5.65 tons per year.

(c) In no event shall flux salt exceed a maximum input rate of 3.25 pounds per ton of aluminum.

Compliance with the limitations shall render the requirements of 326 IAC 2-2, PSD and 326 IAC 2-3, Emission Offset not applicable to the #1 complex east holding furnace and #1 complex west holding furnace.

Federal Rule Applicability Determination

The following applicable federal rules have been reevaluated for this permit modification:

On May 26, 2004, U.S. EPA made an applicability determination for 40 CFR 63, Subpart RRR that affects the operation the of in-line fluxers at this source. The determination was made on U.S. EPA's Applicability Determination Index and is referenced as control number M050020. For the purposes of 40 CFR 63.1505, USEPA determined that when a new in-line fluxer replaces an existing in-line fluxer at an existing Secondary Aluminum Processing Unit (SAPU), that new in-line fluxer becomes its own independent/new SAPU. In the past IDEM, OAQ, has treated this type of change as modifications to the existing SAPU.

Since the Part 70 Operating Permit will contain all of the applicable requirements for both the new and existing SAPUs at this source and this source modification only contains parts of new and existing SAPUs, IDEM, OAQ and Alcoa, Inc - Warrick Operations have both agreed that it is more appropriated to incorporate the change in applicability determination as part of the pending Part 70 Operating Permit (T 173-6627-00007).

Therefore, there will be no changes made to the 40 CFR 63, Subpart RRR requirements that are included in 173-20246-00007, issued on March 3, 2005, at this time.

State Rule Applicability Determination

The following state rules have been reevaluated for this permit modification:

326 IAC 2-2 and 2-3 (PSD and Emission Offset)

PSD and Emission Offset applicability is discussed under the Permit Level Determination - PSD and Emission Offset section.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-1(c), the requirements of 326 IAC 6-3-2 do not apply to sources that are required to comply with particulate limitations under 326 IAC 20 that are more stringent than particulate limitations in 326 IAC 6-3-2. Since NESHAP, Subpart RRR establishes more stringent particulate limitations for the three (3) melters (8M1, 8M2, and 8M3), the two (2) 8EMC4-rotor in-line degassing units, and the two (2) #1 complex ACD units, than the limitations calculated previously for 326 IAC 6-3-2. Therefore, the requirements of 326 IAC 6-3-2 do not apply to these emission units.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must

develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance determination requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

There are no additional compliance determination or compliance monitoring requirements applicable to this modification.

Proposed Changes

The changes listed below have been made to Significant Permit Modification No. 173-20246-00007, issued on March 3, 2005. Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

Change 1:

The IDEM, OAQ, address has been updated in all places in the permit as follows:

100 North Senate Avenue, ~~P. O. Box 6015~~
Indianapolis, Indiana ~~46206-6015~~ **46204-2251**

Change 2:

The source address and source location status that is listed in Condition A.1 will be revised as follows:

Source Address: Jct. IN ~~Hwys.~~ **State Roads** 66 & 61, Newburgh, Indiana 47629

Source Location Status: Nonattainment for ~~8-hour~~ ozone **under the 8-hour standard and PM_{2.5}**
Attainment for **all** other criteria pollutants

Note: The source address in the forms at the end of the permit will also be revised.

Change 3:

Condition C.1(b) will be revised as follows to clarify that the certification form may cover more than one (1) document that is submitted:

C.1 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. **One (1) certification may cover multiple forms in one (1) submittal.**

Change 4:

IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request, records of preventive maintenance in order to establish

that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, Condition C.2(b) will be deleted and Condition C.12(e) will be revised as follows:

C.2 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)]
[326 IAC 1-6-3]

- ~~(b)~~ The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- ~~(e)~~ **(b)** A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMPs does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- ~~(d)~~ **(c)** Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- ~~(e)~~ **(d)** To the extent, but only to the extent, Permittee is required by 40 CFR Part 60/63 to have an OM&M Plan, such plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 and the OM&M Plan requirements shall be the applicable requirements for maintenance.

C.12 Emergency Provisions [326 IAC 2-7-16]

- (e)** The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(10) be revised in response to an emergency.

Change 5:

IDEM has reconsidered the requirement to develop and follow a Compliance Response Plan. The Permittee will still be required to take reasonable response steps when a compliance monitoring parameter is determined to be out of range or abnormal. Replacing the requirement to develop and follow a Compliance Response Plan with a requirement to take reasonable response steps will ensure that the control equipment is returned to proper operation as soon as practicable, while still allowing the Permittee the flexibility to respond to situations that were not anticipated. Condition C.11 will be revised as follows:

C.11 ~~Compliance Response Plan—Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances** [326 IAC 2-7-5] [326 IAC 2-7-6]

- ~~(a)~~ The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition set forth in Section D of this permit. If a Permittee is required to have a Operation, Maintenance and Monitoring (OM&M) Plan or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction Plan under 40 CFR 60/63, such plans shall be deemed to satisfy the requirements for a CRP, for those compliance monitoring conditions. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on-site, and comprised of:

- (1) ~~Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected time frame for taking reasonable response steps.~~
- (2) ~~If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OM&M) Plan and the Permittee documents such response in accordance with subsection (c) below, the Permittee shall amend its Compliance Response Plan or Operation, Maintenance and Monitoring (OM&M) Plan to include such response steps taken.~~
- (b) ~~For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:~~
- (1) ~~Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or~~
- ~~If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.~~
- ~~If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.~~
- ~~Failure to take reasonable response steps shall constitute a violation of the permit.~~
- (c) ~~The Permittee is not required to take any further response steps for any of the following reasons:~~
- (1) ~~A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.~~
- (2) ~~The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.~~
- (3) ~~An automatic measurement was taken when the process was not operating.~~
- (4) ~~The process has already returned or is returning to operating within "normal" parameters and no response steps are required.~~
- (d) ~~When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.~~
- (e) ~~The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.~~

- ~~(f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.~~
- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.**
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:**
- (1) initial inspection and evaluation;**
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or**
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.**
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:**
- (1) monitoring results;**
 - (2) review of operation and maintenance procedures and records;**
 - (3) inspection of the control device, associated capture system, and the process.**
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.**
- (e) The Permittee shall maintain the following records:**
- (1) monitoring data;**
 - (2) monitor performance data, if applicable; and**
 - (3) corrective actions taken.**

Change 6:

In accordance with the credible evidence rule (62 Fed. Reg. 8314, Feb 24, 1997); Section 113(a) of the Clean Air Act, 42 U.S.C. Section 7413 (a); and a letter from the United States Environmental Protection Agency (USEPA) to IDEM, OAQ dated May, 18 2004, all permits must address the use of credible evidence; otherwise, USEPA will object to the permits. The following language will be incorporated into the permit to address credible evidence as Condition C.16:

C.16 Credible Evidence [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

Change 7:

The PSD and Emission Offset limits in Condition D.1.1(s) and (t) will be revised and Condition D.1.1(u) will be added to limit the input of flux salt to the #1 complex east holding furnace and #1 complex west holding furnace. In addition, Condition D.1.1(l) will be revised to include information that was inadvertently left out of SPM 173-20246-00007, issued on March 3, 2005. The changes to Condition D.1.1 are as follows:

D.1.1 Prevention of Significant Deterioration (PSD) and Emission Offset Minor Limitations [326 IAC 2-2] [326 IAC 2-3]

8EMC 4-rotor A622 in-line degassing units

- (k) The annual feed/charge rate to the two (2) 8EMC 4-rotor A622 in-line degassing units shall each not exceed 411,720 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
- (l) The PM emissions from the 8EMC 8EH 4-rotor A622 in-line degassing unit shall not exceed 0.002 lbs/ton of feed/charge **for chlorine input rates of 0.11 pounds per ton of aluminum or less**. The total PM emissions shall not exceed 0.412 tons per year.
- (m) The PM emissions from the 8EMC 8WH 4-rotor A622 in-line degassing unit shall not exceed 0.002 lbs/ton of feed/charge for chlorine input rates of 0.11 pounds per ton of aluminum or less. The total PM emissions shall not exceed 0.412 tons per year.
- (n) The PM₁₀ emissions from the two (2) 8EMC 4-rotor A622 in-line degassing units shall each not exceed 0.00208 pounds per ton of feed per/charge. The total PM₁₀ emissions shall not exceed 0.856 tons per year.

#1 Complex East Holding Furnace and #1 Complex West Holding Furnace

- (r) The total feed/charge of the #1 complex east holding furnace and the #1 complex west holding furnace shall not exceed 172,000 tons per year, with compliance demonstrated at the end of each month.
- (s) The PM emissions from the #1 complex east holding furnace and #1 complex west holding furnace shall not exceed 0.045 ~~lbs~~ **pounds** per ton of ~~molten metal~~ **charge each for flux salt input rates less than or equal to 0.85 pounds per ton of aluminum. The PM emissions from the #1 complex east holding furnace and #1 complex west holding furnace shall not exceed 0.084 pounds per ton of charge each for flux salt input rates greater than 0.85 pounds per ton of aluminum but less than 3.25 pounds per ton of aluminum.** ~~and~~ ~~†~~The total PM emissions **from** these furnaces shall not exceed 3.87 tons per year.
- (t) The PM₁₀ emissions from the #1 complex east holding furnace and #1 complex west holding furnace shall not exceed 0.066 ~~lbs~~ **pounds** per ton of charge **each for flux salt input rates less than or equal to 0.85 pounds per ton of aluminum. The PM₁₀ emissions from the #1 complex east holding furnace and #1 complex west holding furnace shall not exceed 0.123 pounds per ton of charge each for flux salt input rates greater than 0.85**

pounds per ton of aluminum but less than 3.25 pounds per ton of aluminum. and ~~the~~ The total PM₁₀ emissions from these furnaces shall not exceed 5.65 tons per year.

- (u) **In no event shall flux salt exceed a maximum input rate of 3.25 pounds per ton of aluminum.**
- ~~(u)~~ (v) The NO_x emissions from the #1 complex east holding furnace and #1 complex west holding furnace shall not exceed 0.148 lbs per ton of charge and the total NO_x emissions from these furnaces shall not exceed 12.58 tons per year.

Compliance with these limits render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) **and 326 IAC 2-3 (Emission Offset)** not applicable.

This revised ~~Condition No. D.1.4~~ **condition shall** supersedes ~~Condition No. D.1.1 of Permit SSM 173-16034-00007, issued on March 28, 2003, SPM 173-18905-00007, issued on September 24, 2004, and SPM 173-20246-00007, issued on March 3, 2005.~~

Change 8:

Since 326 IAC 6-3-2 is no longer applicable to the equipment in this modification, Condition D.1.6 will be deleted as follows:

~~D.1.6 Particulate [326 IAC 6-3-2]~~

- ~~(a) Pursuant to 326 IAC 6-3-2, (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from melters 8M1, 8M2, and 8M3 shall each not exceed 44.0 pounds per hour when operating at a process weight rate of 47.0 tons per hour, each.~~
- ~~(b) Pursuant to 326 IAC 6-3-2, (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the two (2) 8EMC 4-rotor A662 in-line degassing units shall each not exceed 87.8 pounds per hour when operating at a process weight rate of 70.0 tons per hour, each.~~

~~The pounds per hour limitations in paragraphs (a) and (b) of this condition were calculated using the following equation:~~

~~Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:~~

$$~~E = 55.0 P^{0.44} - 40 \text{ where } E = \text{rate of emission in pounds per hour and } P = \text{process weight rate in tons per hour}~~$$

- ~~(c) Pursuant to 326 IAC 6-3-2, (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the two (2) #1 complex ACD units shall each not exceed 87.8 pounds per hour when operating at a process weight rate of 10.0 tons per hour, each.~~

~~The pound per hour limitation was calculated using the following equation:~~

~~Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:~~

$$~~E = 4.10 P^{0.67} \text{ where } E = \text{rate of emission in pounds per hour and } P = \text{process weight rate in tons per hour}~~$$

Change 9:

As part of this modification, IDEM, OAQ will require record keeping to demonstrate compliance with the combined chlorine and flux salt input limits for the 8M1, 8M2, and 8M3 Melters in Conditions D.1.1(c)(3) and (d)(3), the chlorine and combined chlorine and flux salt input limits for the 8EMC holding furnaces in Conditions D.1.1(h)(3) and (5) and (i)(3) and (5), and flux salt input limit for the #1 complex holding furnaces the proposed Condition D.1.1(u). In order to be consistent with the requirements of 40 CFR 63.1517, to demonstrate compliance with the chlorine and flux salt input limits, paragraph (f) will be added to Condition D.1.14 (now Condition D.1.13) as follows:

D.1.14 13 Record Keeping Requirements

(f) To document compliance with Conditions D.1.1(c)(3), (d)(3), (h)(3) and (5), (i)(3) and (5), and (u), the Permittee shall record the 15-minute block average weights of chlorine and flux salt input to each holding and melting furnace.

~~(g)~~ (g) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Change 10:

Since 40 CFR 63.1517 requires records for 3-day, 24-hour rolling average emissions calculations are made for each secondary aluminum processing unit (SAPU) and not necessarily for each individual emission unit, Conditions D.1.15(d)(7) and (8) (now Condition D.1.14(d)(7)) will be revised as follows:

D.1.15 14 Secondary Aluminum Production Record Keeping Requirements [40 CFR Part 63, Subpart RRR]

(d) (7) For each furnace ~~SAPU~~, records of the 3-day, 24-hour rolling average emissions of PM, HCl, and/or D/F emissions calculations.

~~(8) For each in-line degasser, records of the 3-day, 24-hour rolling average emissions of PM, and HCl emissions calculations.~~

Change 11:

Since the 8EMC ACD unit has been removed from service, the reporting requirement in Condition D.1.17(b) (now Condition D.1.16(b)) will be revised as follows:

D.1.17-16 Reporting Requirements

~~(a)~~ (a) A quarterly summary of the information to document compliance with Condition D.1.1 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

~~(b)~~ (b) The quarterly report form of this permit shall satisfy the reporting requirement in the above condition and Condition D.1.7 in Minor Source Modification 173-15352-00007 to show compliance with the 411,720 tons of molten aluminum limit for the 8EMC ACD unit in both permits.

Conclusion and Recommendation

This proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Permit Modification No. 173-21817-00007. The staff recommends to the Commissioner that this Part 70 Significant Permit Modification to a Part 70 Significant Source Modification be approved.