



**PERMIT**  
**Under the Environmental Conservation Law (ECL)**

**IDENTIFICATION INFORMATION**

Permit Type: Air Title V Facility  
Permit ID: 7-3556-00001/00097  
Mod 0 Effective Date: 12/20/2016 Expiration Date: 12/19/2021  
Mod 1 Effective Date: 11/10/2014 Expiration Date: No expiration date.  
Mod 2 Effective Date: 11/10/2014 Expiration Date: No expiration date.  
Mod 3 Effective Date: 04/24/2017 Expiration Date: 12/19/2021  
Mod 4 Effective Date: Expiration Date:

Permit Issued To: NOVELIS CORPORATION  
448 CO RTE 1A  
OSWEGO, NY 13126

Facility: NOVELIS CORPORATION  
448 CO RTE 1A  
OSWEGO, NY 13126-0028

Contact: DAVID NEUNER  
NOVELIS CORPORATION  
448 CO RTE 1A PO BOX 28  
OSWEGO, NY 13126-0028

Description:  
Replacement of Busch Purifier emission controls on the 100 inch hot rolling mill with PiTTek mist eliminator, coalescer.

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

Permit Administrator: ELIZABETH A TRACY  
615 ERIE BLVD WEST  
SYRACUSE, NY 13204-2400

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_



**Notification of Other State Permittee Obligations**

**Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**

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

**Item B: Permittee's Contractors to Comply with Permit**

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

**Item C: Permittee Responsible for Obtaining Other Required Permits**

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

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

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



**LIST OF CONDITIONS**

**DEC GENERAL CONDITIONS**

**General Provisions**

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

**Facility Level**

- Submission of application for permit modification or renewal-REGION 7 HEADQUARTERS



**DEC GENERAL CONDITIONS**

**\*\*\*\* General Provisions \*\*\*\***

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

**GENERAL CONDITIONS - Apply to ALL Authorized Permits.**

**Condition 1: Facility Inspection by the Department**

**Applicable State Requirement: ECL 19-0305**

**Item 1.1:**

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

**Item 1.2:**

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

**Item 1.3:**

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

**Condition 2: Relationship of this Permit to Other Department Orders and Determinations**

**Applicable State Requirement: ECL 3-0301 (2) (m)**

**Item 2.1:**

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

**Condition 3: Applications for permit renewals, modifications and transfers**

**Applicable State Requirement: 6 NYCRR 621.11**

**Item 3.1:**

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

**Item 3.2:**

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

**Item 3.3**

Permits are transferrable with the approval of the department unless specifically prohibited by



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Facility DEC ID: 7355600001

the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

**Condition 4-1: Applications for permit renewals, modifications and transfers**  
**Applicable State Requirement: 6 NYCRR 621.11**

**Item 4-1.1:**

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

Item4-1.2:

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

**Item 4-1.3**

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

**Condition 4: Permit modifications, suspensions or revocations by the Department**

**Applicable State Requirement: 6 NYCRR 621.13**

**Item 4.1:**

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

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

**\*\*\*\* Facility Level \*\*\*\***

**Condition 5: Submission of application for permit modification or renewal-REGION 7 HEADQUARTERS**

**Applicable State Requirement: 6 NYCRR 621.6 (a)**

**Item 5.1:**

Submission of applications for permit modification or renewal are to be submitted to:  
NYSDEC Regional Permit Administrator

DEC Permit Conditions  
Renewal 1/Mod 4/DRAFT

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Region 7 Headquarters  
Division of Environmental Permits  
615 Erie Blvd West  
Syracuse, NY 13204-2400  
(315) 426-7400

**New York State Department of Environmental Conservation**

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**Permit Under the Environmental Conservation Law (ECL)**

**ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT**

**IDENTIFICATION INFORMATION**

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448 CO RTE 1A  
OSWEGO, NY 13126

Facility: NOVELIS CORPORATION  
448 CO RTE 1A  
OSWEGO, NY 13126-0028

Authorized Activity By Standard Industrial Classification Code:  
3341 - SECONDARY NONFERROUS METALS  
3353 - ALUMINUM SHEET PLATE & FOIL

Permit Effective Date:

Permit Expiration Date:



**LIST OF CONDITIONS**

**DEC GENERAL CONDITIONS**

**General Provisions**

- Facility Inspection by the Department
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  - Applications for permit renewals, modifications and transfers
  - Applications for permit renewals, modifications and transfers
  - Permit modifications, suspensions or revocations by the Department

**Facility Level**

- Submission of application for permit modification or renewal-REGION 7 HEADQUARTERS

**FEDERALLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 22 6 NYCRR Subpart 201-6: Emission Unit Definition
- 4-1 6 NYCRR 212-3.1 (a) (2): Compliance Certification
- 4-2 6 NYCRR 212-3.1 (a) (2): Compliance Certification
- 50 : Compliance Certification

**Emission Unit Level**

- 95 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 96 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

**EU=H-OTMIL**

- 4-3 6 NYCRR 200.7: Compliance Certification
- 4-4 6 NYCRR 231-11.2: Compliance Certification

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 106 ECL 19-0301: Contaminant List





**FEDERALLY ENFORCEABLE CONDITIONS**

**\*\*\*\* Facility Level \*\*\*\***

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

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

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

**Item B: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.2 (a) (4)**

Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

**Item C: Certification by a Responsible Official - 6 NYCRR 201-6.2 (d) (12)**

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

**Item D: Requirement to Comply With All Conditions - 6 NYCRR 201-6.4 (a) (2)**

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

**Item E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.4 (a) (3)**

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and



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

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

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

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

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

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

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

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

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

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

ii. The liability of a permittee of the Title V



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

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

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

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

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

i. When additional applicable requirements under the act become applicable to a title V facility with a remaining permit term of three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the department pursuant to the provisions of section 201- 6.6 of this Subpart.

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

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

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

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

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

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

**Item K: Permit Exclusion - ECL 19-0305**

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

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

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

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

**Condition 22: Emission Unit Definition**

**Effective between the dates of 12/20/2016 and Permit Expiration Date**

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 22.1(From Mod 4):**

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

Emission Unit: H-OTMIL

Emission Unit Description:

THIS PROCESS CONSISTS OF A MULTI-STAND ALUMINUM HOT ROLLING MILL, SHEARS, TRIMMERS, OIL FILTRATION AND TREATMENT, ULTRAFILTRATION AND ASSOCIATED MATERIAL

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HANDLING AND PACKAGING SYSTEMS, AND SHIPPING/RECEIVING. VARIOUS MAINTENANCE, TESTING AND OFFICE FACILITIES ARE ALSO INCLUDED IN THIS EMISSION UNIT. IN THIS PROCESS ALUMINUM INGOTS ARE ROLLED INTO ALUMINUM SHEET. EMISSION POINTS 00HMS, HM105, HM106, HM121, HM122 AND HM123 ARE INCLUDED IN THIS EMISSION UNIT. EMISSION POINTS HM105 AND HM106 ARE SUBJECT TO 6 NYCRR 212 VOC RACT REQUIREMENTS.

A PiTTek Rolling Mill Fume Exhaust System (RME-4) will be installed to control emissions from the 100 inch hot mill, replacing two existing Busch Air Purifiers.

The RME-4 will be equipped with mist eliminators in the duct and the stack as well as a stack condensate eliminator.

Two Busch Purifier units rated at 90,000 CFM each will be replaced with a single fume exhaust system rated at 285,000 CFM. Emission Points HM105 and HM106 will be eliminated and replaced with a new emission point (HMFE1). Additional collection points will be added to improve fume capture efficiency. Emission sources HM10P and HM11P will be eliminated and replaced with HMME1, HMME2 and HMMES.

Building(s): HOT MILL

**Item 22.2(From Mod 0):**

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

Emission Unit: 0-000CL

Emission Unit Description:

This Emission Unit consists of three aluminum finishing lines designed to meet product specifications. The operations involved in each line include: annealing, surface preparation, other mechanical processes and numerous small combustion devices that would otherwise be exempt.

Building(s): CL

**Item 22.3(From Mod 3):**

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

Emission Unit: 0-00DC7

Emission Unit Description:

The 0-00DC7 emission unit consists of two (2) melting furnaces and two (2) in-line fluxers for the processing of aluminum scrap and molten aluminum.

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The SMACT defines melting/holding furnace as “a group 1 furnace that processes only clean charge, performs melting, holding, and fluxing functions, and does not transfer molten aluminum to or from another furnace except for purposes of alloy changes, off-specification product drains, or maintenance activities.” Furnaces under this definition are subject to a limit of 0.80 pounds PM per ton, double the limit that other group 1 furnaces must meet. The melters and holders 4, 5 and 6 at Novelis are Group 1 furnaces subject to a limit of 0.40 lb PM/ton because they can process other than clean charge.

Building(s): RECYCLE 2

**Item 22.4(From Mod 3):**

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

Emission Unit: 0-00RC1

Emission Unit Description:

This is an aluminum scrap melting process consisting of two, sidewell melting furnaces fueled by oil and/or natural gas, and scrap handling, shipping/receiving, and molten metal handling equipment. Various maintenance, testing and office facilities are also included in this emission unit. The aluminum scrap melted in the two sidewell furnaces may contain small quantities of oil or lacquer coatings. Emissions from the furnace side-well melting systems are collected by a ventilation system consisting of hoods, enclosures, ductwork, fan and baghouse. This emission unit includes emission points NR1F0, NR1F1, NR1G0, NR1G1, 00R21. Sources 0RC1F and 0RC1G associated with emission points NR1F0 and NR1G0 are equipped with bloom 1150-150 ultra 3 low NOx lumiflame regenerative burners in fulfillment of RACT requirements. Emission tests of these burners as installed by the manufacturer confirmed NOx emissions of 0.045 lb/mmBTU for natural gas and 0.052 lb/mmBTU for oil.

Building(s): RECYCLE 1

**Item 22.5(From Mod 0):**

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

Emission Unit: 0-GWATR

Emission Unit Description:

THIS UNIT CONSISTS OF A 400 CFM AIR STRIPPER ASSOCIATED WITH A GROUNDWATER REMEDIATION SYSTEM. EMISSION POINT GW001 IS THE ONLY EMISSION POINT IN THIS UNIT.

Building(s): INGOT PREP

**Item 22.6(From Mod 0):**

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

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Emission Unit: 0-RMSOW

Emission Unit Description:

This furnace is designed to melt clean charge. A conveyor will be used to load aluminum, and a trough will be used to transfer molten aluminum to a crucible or directly to a process. There will be productivity gains in Remelt.

The emissions associated with SOW1 are 18.5 tpy of NOx; the emissions increase related to the remelt was 13.2 tons per year. The total increase in emissions was, at the time, was projected to be 13.2 tpy less than de minimis.

The SOWMS melter is a Group 2 furnace, with a projected NOx emission rate of 4.2 lb/hr. This project occurred in 2007.

Building(s): REMELT

**Item 22.7(From Mod 0):**

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

Emission Unit: 0-SCALP

Emission Unit Description:

This emission unit consists of the ingot scalper chip storage and conveying system. This unit includes three storage silos controlled by two cyclones, also four screw conveyors and a chip bunker with individual cyclones controlled by a common baghouse.

Building(s): RECYCLE 2  
REMELT

**Item 22.8(From Mod 0):**

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

Emission Unit: 3-ANEAL

Emission Unit Description:

THIS EMISSION UNIT CONSISTS OF AN ELECTRIC ANNEALING FURNACE USED FOR TEMPERING COILED ALUMINUM SHEET.

Building(s): COLD MILL

**Item 22.9(From Mod 0):**

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

Emission Unit: C-OLD72

Emission Unit Description:

THIS PROCESS CONSISTS OF A 72" WIDE ALUMINUM COLD ROLLING MILL, ANNEALING FURNACES, SHEARS, TRIMMERS, TENSION LEVELERS, SLITTERS, LUBRICATION SYSTEMS, OIL FILTRATION AND DISTILLATION EQUIPMENT AND ASSOCIATED MATERIAL HANDLING AND PACKAGING SYSTEMS, AND SHIPPING/RECEIVING. VARIOUS MAINTENANCE, TESTING AND OFFICE



FACILITIES ARE ALSO INCLUDED IN THIS EMISSION UNIT. IN THIS PROCESS COILED ALUMINUM SHEET IS ROLLED TO A REDUCED THICKNESS PRODUCING COILS OF ALUMINUM SHEET. THESE COILS ARE SUBSEQUENTLY PROCESSED THROUGH ANNEALING, TRIMMING, SLITTING AND/OR LUBRICATING OPERATIONS PRIOR TO PACKAGING IN PREPARATION FOR SHIPMENT TO THE CUSTOMER. EMISSIONS FROM THE VARIOUS PROCESS OPERATIONS ARE BY VENTILATION SYSTEMS CONSISTING OF HOODS, ENCLOSURES, DUCTWORK FANS INERTIAL SEPARATORS AND/OR EXHAUST STACKS. EMISSION POINTS 0000A, 00QDA, 00QDD, AND 0ANL1 ARE INCLUDED IN THIS EMISSION UNIT. THIS EMISSION UNIT UTILIZES BACT FOR VOC EMISSIONS CONTROL AS DEMONSTRATED IN ALCAN'S 1994 VOC RACT PLAN WHICH WAS SUBMITTED TO, AND APPROVED BY, DEC. BASED ON THE RECEIPT OF A COMPLETENESS DETERMINATION FROM DEC ON ITS PHASE 1 APPLICATION BEFORE 4/22/98, THE REQUIREMENT FOR CAM PLAN FOR EMISSION POINT 0000A IS DEFERRED UNTIL TITLE V PERMIT RENEWAL.

This emission unit consists of a natural gas fired annealing furnace for tempering coiled aluminum sheets to customer specifications. Nitrogen will be supplied to the furnace from either an existing nitrogen plant or from one of the three Exogas generators. The emissions from the generators will be discharged directly into the annealing furnace.

Building(s): COLD MILL  
VOC

**Item 22.10(From Mod 0):**

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

Emission Unit: C-OLD88

Emission Unit Description:

THIS PROCESS CONSISTS OF AN 88" WIDE ALUMINUM COLD ROLLING MILL, ANNEALING FURNACE, SHEARS, TRIMMERS, TENSION LEVELERS, SLITTERS, LUBRICATION SYSTEMS, OIL FILTRATION AND DISTILLATION EQUIPMENT AND ASSOCIATED MATERIAL HANDLING AND PACKAGING SYSTEMS, AND SHIPPING/RECEIVING. VARIOUS MAINTENANCE, TESTING AND OFFICE FACILITIES ARE ALSO INCLUDED IN THIS EMISSION UNIT. IN THIS PROCESS COILED





ALUMINUM SHEET IS ROLLED TO A REDUCED THICKNESS PRODUCING COILS OF ALUMINUM SHEET. THESE COILS ARE SUBSEQUENTLY PROCESSED THROUGH ANNEALING, TRIMMING, SLITTING AND/OR LUBRICATING OPERATIONS PRIOR TO PACKAGING IN PREPARATION FOR SHIPMENT TO THE CUSTOMER. EMISSIONS FROM THE VARIOUS PROCESS OPERATIONS ARE BY VENTILATION SYSTEMS CONSISTING OF HOODS, ENCLOSURES, DUCTWORK, FANS INERTIAL SEPARATORS AND/OR EXHAUST STACKS. EMISSION POINTS OCM88, 00QDB AND 0ANL2 ARE INCLUDED IN THIS EMISSION UNIT. THIS EMISSION UNIT UTILIZES BACT FOR VOC EMISSIONS CONTROL AS DEMONSTRATED IN ALCAN'S 1994 VOC RACT PLAN WHICH WAS SUBMITTED TO, AND APPROVED BY, DEC. BASED ON THE RECEIPT OF A COMPLETENESS DETERMINATION FROM DEC ON ITS PHASE 1 APPLICATION BEFORE 4/22/98, THE REQUIREMENT FOR CAM PLAN FOR EMISSION POINT OCM88 IS DEFERRED UNTIL TITLE V PERMIT RENEWAL.

This emission unit consists of a natural gas fired annealing furnace for tempering coiled aluminum sheets to customer specifications. Nitrogen will be supplied to the furnace from either an existing nitrogen plant or from one of the three Exogas generators. The emissions from the generators will be discharged directly into the annealing furnace.

Building(s): COLD MILL  
VOC

**Item 22.11(From Mod 0):**

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

Emission Unit: D-ROSS1

Emission Unit Description:

THIS IS AN ALUMINUM DROSS COOLING, STORAGE AND HANDLING FACILITY. IN THIS OPERATION ALUMINUM DROSS CONTAINED IN METAL PANS IS COVERED WITH SALT OR INERT GAS TO MINIMIZE OXIDATION DURING COOLING. FOLLOWING COOLING THE DROSS IS TRANSFERRED TO TEMPORARY STORAGE BINS WHICH ARE SUBSEQUENTLY DUMPED INTO TRUCKS OR RAIL CARS FOR SHIPMENT TO OFF-SITE RECYCLING OPERATIONS. EMISSION POINT 0DCR3 IS THE ONLY EMISSION POINT IN THIS EMISSION UNIT.

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Building(s): DROSS

**Item 22.12(From Mod 0):**

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

Emission Unit: F-INISH

Emission Unit Description:

This emission unit consists of a new tension leveler, with an associated cleaning station, a slitter for performing various shear cuts (e.g., length, width) to coiled aluminum sheets, and an automated packaging line that will package the coils prior to shipment.

The tension leveler consists of unwind and rewind segments, slitting equipment, and a cleaning station (TL3CS). The cleaning station consists of the application of a solvent within an enclosure controlled by a demister (TL3ME). Solvent applied to the aluminum sheet is drawn through an impinger, aluminum mesh filters, and Vee bag filters before being exhausted inside the building. Scrap from the tension leveler is controlled via a quickdraft (TL3QD) system and collected in scrap boxes inside the Cold Mill building.

Building(s): COLD MILL

**Item 22.13(From Mod 0):**

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

Emission Unit: I-NPREP

Emission Unit Description:

THIS PROCESS CONSISTS OF SCALPER (MILLING) MACHINES AND ASSOCIATED ALUMINUM CHIP HANDLING SYSTEMS WHICH MACHINE SURFACES OF ALUMINUM INGOTS IN PREPARATION FOR HOT ROLLING. THE PROCESS ALSO INCLUDES SEVERAL NATURAL GAS OR PROPANE FUELED HOMOGENIZING FURNACES UTILIZED TO PREHEAT AND CONDITION ALUMINUM INGOTS PRIOR TO HOT ROLLING, AND SHIPPING/RECEIVING. VARIOUS MAINTENANCE AND OFFICE FACILITIES ARE ALSO INCLUDED IN THIS EMISSION UNIT. THE FOLLOWING EMISSION POINTS ARE INCLUDED IN THIS EMISSION UNIT: P0102, P0304, P0506, P0708, P0910, P1112, P1314, P1516, P1718, P1920, P2122, AND PUSH1.

Building(s): INGOT PREP  
REMELT

**Item 22.14(From Mod 0):**

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

Emission Unit: N-PUSHR

Emission Unit Description:

New Pusher furnace (PUSH2) for preheating ingots prior to



rolling.

Building(s): INGOT PREP

**Item 22.15(From Mod 3):**

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

Emission Unit: R-C2CLD

Emission Unit Description:

This is an aluminum scrap shredding and separation process consisting of a pre-shredder (proposed), a primary shredder, a bale breaker, rotary shears, a trommel classifier, magnetic separators, air classifiers, screens, conveyors, shipping/receiving, and storage hoppers. Various maintenance, testing and offices are also included in this emission unit. Particulate emissions from this emission unit are collected by a ventilation system consisting of hoods, enclosures, ductwork, fan, 2 cyclones (up stream of the baghouse) and baghouse. Emission point RCC02 is the only emission point in this emission unit. The RC2CLD and RC2HOT emission units were constructed simultaneously as a single project and emissions from both units were combined in assessing applicability of 6 NYCRR 231 and Federal PSD. Federally enforceable emission limits were established to maintain de minimis emission levels for the total emissions from both units.

Building(s): RECYCLE 2

**Item 22.16(From Mod 3):**

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

Emission Unit: R-C2HOT

Emission Unit Description:

This is an aluminum scrap delacquering and melting process consisting of a rotary kiln, two sidewall aluminum furnaces and various material separation and handling systems. Various maintenance, testing and office facilities are also included in this emission unit. VOC emissions from the kiln are controlled by an afterburner and HCl emissions are controlled using a sodium bicarbonate injection system. Particulate emissions from this emission unit are collected by a ventilation system consisting of hoods, enclosures, ductwork, fan and baghouse. Emission points included in this emission unit are: RCH01, RCBP1, RCBP2 and RCBP3. RCBP1, RCBP2 and RCBP3 are emergency vents and exempt as defined by 6 NYCRR part 201-3.2, sources RC2FD and RC2FE (furnaces D and E) associated with emission point RCH01 are equipped with Bloom Gemini low NOx regenerative burners in fulfillment of RACT requirements. These burners were replaced with bloom 1151-200 ultra3 low NOx lumiflame regenerative burners in 1999 which further reduced NOx emissions. The maximum heat input to each burner/furnace is being

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increased from 15 to 20 mmBtu/hr with the 2017 modification. The RC2CLD and RC2HOT emission units were constructed simultaneously as a single project and emissions from both units were combined in assessing applicability of 6 NYCRR 231 and Federal PSD. Federally enforceable emission limits were established to maintain de minimis emission levels for the total emissions from both units.

Building(s): RECYCLE 2

**Item 22.17(From Mod 0):**

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

Emission Unit: R-EMELT

Emission Unit Description:

THIS IS AN ALUMINUM SCRAP MELTING AND CASTING FACILITY CONSISTING OF SEVERAL ALUMINUM SCRAP MELTING FURNACES, HOLDING FURNACES, MOLTEN METAL TREATMENT EQUIPMENT, MATERIAL HANDLING FACILITIES AND DIRECT-CHILL CASTING PITS. THESE FURNACES ARE FUELED BY OIL AND/OR NATURAL GAS. VARIOUS COOLING WATER SUPPLY AND TREATMENT SYSTEMS ARE ALSO ASSOCIATED WITH THIS UNIT, AND SHIPPING/RECEIVING. VARIOUS MAINTENANCE, TESTING AND OFFICE FACILITIES ARE ALSO INCLUDED IN THIS EMISSION UNIT. ALUMINUM SCRAP AND MOLTEN ALUMINUM ARE TRANSFERRED INTO THESE FURNACES. VARIOUS ALLOYING METALS ARE ADDED TO ADJUST THE COMPOSITION OF THE MOLTEN METAL. VARIOUS METAL TREATMENT OPERATIONS INCLUDING SALT AND/OR CHLORINE FLUXING, FILTRATION AND DEGASSING ARE CONDUCTED PRIOR TO CASTING THE METAL INTO ALUMINUM INGOTS. THIS UNIT IS COVERED UNDER A FEDERAL HAP EARLY REDUCTIONS PROGRAM TITLE V PERMIT NO. ERP-NY-0001. THIS UNIT INCLUDES EMISSION POINTS 00FH3, 00FH4, 00FH5, 00FM3, 00FM4, 00FM5 AND 00FM6. ALSO INCLUDED ARE THE FOLLOWING EMISSION POINTS THAT WERE PHYSICALLY REMOVED IN 1992: 00FH1, 00FH2, 00FM1 AND 00FM2. IN SATISFACTION OF RACT REQUIREMENTS THE FOLLOWING SOURCES ARE EQUIPPED WITH LOW NOX BURNERS: RMFM3 - NORTH AMERICAN 6385-12, RMFM4 - BLOOM 2-15-1-024 HOT AIR BURNERS, RMFM5 - BLOOM S-1501-024 HOT AIR BURNERS.

Building(s): CHLORINE  
L FILTER  
LAKE PUMP



REMELT

**Item 22.18(From Mod 0):**

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

Emission Unit: T-UMBL1

End Date: 12/31/2018

Emission Unit Description:

This emission unit consists of a dross tumbler. The dross tumbler is used to tumble/screen skimmed and cooled dross. The product of the dross tumbler will be recycled dross in various sizes that will be reused in the melters and furnaces. The emissions generated by the dross tumbler will be directed to the existing dross baghouse (the baghouse is listed in the current Title V permit under the D-ROSS1 emission unit and identified as emission source DROS1 exhausting through emission point 0DCR3).

Building(s): DROSS

**Condition 4-1: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 212-3.1 (a) (2)**

**Item 4-1.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 4-1.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

This condition is applicable 180 days after startup of the new air pollution abatement system.

1. The facility shall use the formulation as contained in a Department-approved Operation and Maintenance Plan in the cooling and lubrication of aluminum sheets processed by the 100 inch hot rolling mill.

The facility shall maintain records of the formulations that are used.

2. The facility shall not emit in excess of 0.004 gr/dscf of particulate matter, including condensibles.

Compliance shall be based on emissions testing using 40



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CFR Part 60 App A, Methods 5 and 202 in accordance with a protocol approved by the Department. Testing shall be conducted once per permit term and at any other time when so requested by the Department.

3. On an annual basis, the owner or operator shall state whether he or she has complied with this condition.

Parameter Monitored: PARTICULATES  
Upper Permit Limit: 0.004 grains per dscf  
Reference Test Method: EPA Methods 5 and 202  
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 12 calendar month(s).

**Condition 4-2: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 212-3.1 (a) (2)**

**Replaces Condition(s) 50**

**Item 4-2.1:**

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

Emission Unit: H-OTMIL Process: HOT	Emission Source: HM100
Emission Unit: H-OTMIL Process: HOT	Emission Source: HM10P
Emission Unit: H-OTMIL Process: HOT	Emission Source: HM11P
Regulated Contaminant(s): CAS No: 0NY998-00-0	VOC

**Item 4-2.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
Monitoring Description:

This condition will no longer be applicable when HMME1, HMME2 and HMMES commence operation.

1. The overall removal efficiency of VOC, from the 100" finishing mill, shall be no less than 73.5%.



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2. VOC emissions from the 100 inch finishing mill shall not exceed 9 tons for each 12 month rolling period.

3. The owner or operator may choose to demonstrate whether the emission is a VOC or a particulate. If the Department concludes that the pollutant is not a VOC, the owner or operator may submit to the Department an application to modify this condition.

Parameter Monitored: VOC

Lower Permit Limit: 73.5 percent reduction by weight

Reference Test Method: Approved Methods

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 50: Compliance Certification**  
**Effective between the dates of 12/20/2016 and Permit Expiration Date**

**Applicable Federal Requirement:**

**Replaced by Condition(s) 4-2**

**Item 50.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: H-OTMIL

Process: HOT

Emission Source: HM100

Emission Unit: H-OTMIL

Process: HOT

Emission Source: HM10P

Emission Unit: H-OTMIL

Process: HOT

Emission Source: HM11P

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 50.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

1. The overall removal efficiency of VOC, from the 100" finishing mill, shall be no less than 73.5%.

2. VOC emissions from the 100 inch finishing mill shall not exceed 9 tons for each 12 month rolling period.

3. The owner or operator may choose to demonstrate

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whether the emission is a VOC or a particulate. If the Department concludes that the pollutant is not a VOC, the owner or operator may submit to the Department an application to modify this condition.

Parameter Monitored: VOC  
Lower Permit Limit: 73.5 percent reduction by weight  
Reference Test Method: Approved Methods  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

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

**Condition 95: Emission Point Definition By Emission Unit**  
**Effective between the dates of 12/20/2016 and Permit Expiration Date**

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 95.1(From Mod 4):**

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

Emission Unit: H-OTMIL

Emission Point: 00HMS  
Height (ft.): 53 Length (in.): 72 Width (in.): 12  
NYTMN (km.): 4816. NYTME (km.): 382. Building: HOT MILL

Emission Point: HM105  
Height (ft.): 80 Diameter (in.): 96  
NYTMN (km.): 4816. NYTME (km.): 382. Building: HOT MILL

Emission Point: HM106  
Height (ft.): 80 Diameter (in.): 96  
NYTMN (km.): 4816. NYTME (km.): 382. Building: HOT MILL

Emission Point: HMF1  
Height (ft.): 93 Diameter (in.): 162  
NYTMN (km.): 4816. NYTME (km.): 382. Building: HOT MILL

**Item 95.2(From Mod 0):**

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

Emission Unit: 0-000CL

Emission Point: 01FCE  
Height (ft.): 80 Diameter (in.): 35  
NYTMN (km.): 4816.332 NYTME (km.): 382.348 Building: CL



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Emission Point: 01SCR  
Height (ft.): 80 Diameter (in.): 24  
NYTMN (km.): 4816.332 NYTME (km.): 382.348 Building: CL

Emission Point: 01TRM  
Height (ft.): 85 Diameter (in.): 144  
NYTMN (km.): 4816.332 NYTME (km.): 382.348 Building: CL

Emission Point: 02FCE  
Height (ft.): 80 Diameter (in.): 35  
NYTMN (km.): 4816.332 NYTME (km.): 382.348 Building: CL

Emission Point: 02SCR  
Height (ft.): 80 Diameter (in.): 24  
NYTMN (km.): 4816.332 NYTME (km.): 382.348 Building: CL

Emission Point: 02TRM  
Height (ft.): 85 Diameter (in.): 144  
NYTMN (km.): 4816.332 NYTME (km.): 382.348 Building: CL

Emission Point: 03FCE  
Height (ft.): 83 Diameter (in.): 32  
NYTMN (km.): 4816.332 NYTME (km.): 382.348 Building: CL

Emission Point: 03SCR  
Height (ft.): 80 Diameter (in.): 24  
NYTMN (km.): 4816.332 NYTME (km.): 382.348 Building: CL

Emission Point: 03TRM  
Height (ft.): 85 Diameter (in.): 144  
NYTMN (km.): 4816.332 NYTME (km.): 382.348 Building: CL

**Item 95.3(From Mod 0):**

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

Emission Unit: 0-00DC7

Emission Point: EP720  
Height (ft.): 100 Diameter (in.): 24  
NYTMN (km.): 4816.469 NYTME (km.): 382.551 Building: REMELT

Emission Point: EP760  
Height (ft.): 100 Diameter (in.): 40  
NYTMN (km.): 4816.469 NYTME (km.): 382.544 Building: REMELT

**Item 95.4(From Mod 0):**

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

Emission Unit: 0-00RC1

Emission Point: 000E2

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Height (ft.): 53 NYTMN (km.): 4816.	Diameter (in.): 42 NYTME (km.): 382.	Building: REMELT
Emission Point: 00R21 Height (ft.): 70 NYTMN (km.): 4816.649	Diameter (in.): 54 NYTME (km.): 382.451	Building: RECYCLE1
Emission Point: OSOW2 Height (ft.): 70 NYTMN (km.): 4816.	Diameter (in.): 52 NYTME (km.): 382.	Building: REMELT
Emission Point: NR1F0 Height (ft.): 60 NYTMN (km.): 4816.	Diameter (in.): 54 NYTME (km.): 382.	Building: RECYCLE1
Emission Point: NR1F1 Height (ft.): 60 NYTMN (km.): 4816.	Diameter (in.): 44 NYTME (km.): 382.	Building: RECYCLE1
Emission Point: NR1G0 Height (ft.): 60 NYTMN (km.): 4816.	Diameter (in.): 54 NYTME (km.): 382.	Building: RECYCLE1
Emission Point: NR1G1 Height (ft.): 60 NYTMN (km.): 4816.	Diameter (in.): 44 NYTME (km.): 382.	Building: RECYCLE1

**Item 95.5(From Mod 0):**

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

Emission Unit: 0-GWATR		
Emission Point: GW001 Height (ft.): 76 NYTMN (km.): 4816.	Diameter (in.): 4 NYTME (km.): 382.	Building: INGOT PREP

**Item 95.6(From Mod 0):**

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

Emission Unit: 0-RMSOW		
Emission Point: SOWM1 Height (ft.): 392 NYTMN (km.): 4816.332	Diameter (in.): 49 NYTME (km.): 382.348	Building: REMELT

**Item 95.7(From Mod 0):**

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

Emission Unit: 0-SCALP		
Emission Point: CHIP1 Height (ft.): 23	Diameter (in.): 16	

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NYTMN (km.): 4816.      NYTME (km.): 382.      Building: RECYCLE 2

Emission Point: SILO1  
 Height (ft.): 70      Diameter (in.): 20  
 NYTMN (km.): 4816.      NYTME (km.): 382.      Building: REMELT

Emission Point: SILO2  
 Height (ft.): 70      Diameter (in.): 20  
 NYTMN (km.): 4816.      NYTME (km.): 382.      Building: REMELT

**Item 95.8(From Mod 0):**

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

Emission Unit: 3-ANEAL

Emission Point: 0ANL3  
 Height (ft.): 81      Diameter (in.): 8  
 NYTMN (km.): 4816.      NYTME (km.): 382.      Building: COLD MILL

**Item 95.9(From Mod 0):**

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

Emission Unit: C-OLD72

Emission Point: 0000A  
 Height (ft.): 93      Diameter (in.): 59  
 NYTMN (km.): 4816.      NYTME (km.): 382.      Building: VOC

Emission Point: 00QDA  
 Height (ft.): 49      Diameter (in.): 72  
 NYTMN (km.): 4816.      NYTME (km.): 382.      Building: COLD MILL

Emission Point: 00QDD  
 Height (ft.): 49      Diameter (in.): 72  
 NYTMN (km.): 4816.      NYTME (km.): 382.      Building: COLD MILL

Emission Point: 0ANL1  
 Height (ft.): 85      Diameter (in.): 36  
 NYTMN (km.): 4816.      NYTME (km.): 382.      Building: COLD MILL

**Item 95.10(From Mod 0):**

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

Emission Unit: C-OLD88

Emission Point: 00QDB  
 Height (ft.): 49      Diameter (in.): 72  
 NYTMN (km.): 4816.      NYTME (km.): 382.      Building: COLD MILL

Emission Point: 0ANL2  
 Height (ft.): 85      Diameter (in.): 36  
 NYTMN (km.): 4816.      NYTME (km.): 382.      Building: COLD MILL

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Emission Point: OCM88  
Height (ft.): 93                      Diameter (in.): 59  
NYTMN (km.): 4816.                      NYTME (km.): 382.                      Building: VOC

**Item 95.11(From Mod 0):**

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

Emission Unit: D-ROSS1

Emission Point: 0DCR3  
Height (ft.): 50                      Diameter (in.): 80  
NYTMN (km.): 4816.                      NYTME (km.): 382.                      Building: DROSS

**Item 95.12(From Mod 0):**

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

Emission Unit: F-INISH

Emission Point: 00QD4  
Height (ft.): 49                      Diameter (in.): 72  
NYTMN (km.): 4816.332                      NYTME (km.): 382.348                      Building: COLD MILL

**Item 95.13(From Mod 0):**

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

Emission Unit: H-OTMIL

Emission Point: HM121  
Height (ft.): 66                      Diameter (in.): 48  
NYTMN (km.): 4816.                      NYTME (km.): 382.                      Building: HOT MILL

Emission Point: HM122  
Height (ft.): 66                      Diameter (in.): 48  
NYTMN (km.): 4816.                      NYTME (km.): 382.                      Building: HOT MILL

Emission Point: HM123  
Height (ft.): 66                      Diameter (in.): 48  
NYTMN (km.): 4816.                      NYTME (km.): 382.                      Building: HOT MILL

**Item 95.14(From Mod 0):**

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

Emission Unit: I-NPREP

Emission Point: P0102  
Height (ft.): 80                      Diameter (in.): 72  
NYTMN (km.): 4816.                      NYTME (km.): 382.                      Building: INGOT PREP

Emission Point: P0304  
Height (ft.): 80                      Diameter (in.): 72  
NYTMN (km.): 4816.                      NYTME (km.): 382.                      Building: INGOT PREP

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Emission Point: P0506 Height (ft.): 80 NYTMN (km.): 4816.	Diameter (in.): 72 NYTME (km.): 382.	Building: INGOT PREP
Emission Point: P0708 Height (ft.): 80 NYTMN (km.): 4816.	Diameter (in.): 72 NYTME (km.): 382.	Building: INGOT PREP
Emission Point: P0910 Height (ft.): 80 NYTMN (km.): 4816.	Diameter (in.): 72 NYTME (km.): 382.	Building: INGOT PREP
Emission Point: P1112 Height (ft.): 80 NYTMN (km.): 4816.	Diameter (in.): 72 NYTME (km.): 382.	Building: INGOT PREP
Emission Point: P1314 Height (ft.): 80 NYTMN (km.): 4816.	Diameter (in.): 72 NYTME (km.): 382.	Building: INGOT PREP
Emission Point: P1516 Height (ft.): 80 NYTMN (km.): 4816.	Diameter (in.): 49 NYTME (km.): 382.	Building: INGOT PREP
Emission Point: P1718 Height (ft.): 80 NYTMN (km.): 4816.	Diameter (in.): 49 NYTME (km.): 382.	Building: INGOT PREP
Emission Point: P1920 Height (ft.): 95 NYTMN (km.): 4816.	Diameter (in.): 50 NYTME (km.): 382.	Building: INGOT PREP
Emission Point: P2122 Height (ft.): 95 NYTMN (km.): 4816.	Diameter (in.): 50 NYTME (km.): 382.	Building: INGOT PREP
Emission Point: PUSH1 Height (ft.): 99 NYTMN (km.): 4816.	Diameter (in.): 71 NYTME (km.): 382.	Building: INGOT PREP

**Item 95.15(From Mod 0):**

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

Emission Unit: R-C2CLD		
Emission Point: RCC01 Height (ft.): 60 NYTMN (km.): 4816.	Removal Date: 07/01/2017 Diameter (in.): 54 NYTME (km.): 382.	Building: RECYCLE 2
Emission Point: RCC02 Height (ft.): 100	Diameter (in.): 84	

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NYTMN (km.): 4816.332 NYTME (km.): 382.348 Building: RECYCLE 2

**Item 95.16(From Mod 0):**

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

Emission Unit: R-C2HOT

Emission Point: RCB01

Height (ft.): 50 Diameter (in.): 12  
NYTMN (km.): 4816. NYTME (km.): 382. Building: RECYCLE 2

Emission Point: RCBP1

Height (ft.): 60 Diameter (in.): 36  
NYTMN (km.): 4816. NYTME (km.): 382. Building: RECYCLE 2

Emission Point: RCBP2

Height (ft.): 60 Diameter (in.): 48  
NYTMN (km.): 4816. NYTME (km.): 382. Building: RECYCLE 2

Emission Point: RCBP3

Height (ft.): 60 Diameter (in.): 48  
NYTMN (km.): 4816. NYTME (km.): 382. Building: RECYCLE 2

Emission Point: RCH01

Height (ft.): 100 Diameter (in.): 96  
NYTMN (km.): 4816.515 NYTME (km.): 382.37 Building: RECYCLE 2

**Item 95.17(From Mod 0):**

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

Emission Unit: R-EMELT

Emission Point: 00FH3

Height (ft.): 70 Diameter (in.): 48  
NYTMN (km.): 4816. NYTME (km.): 382. Building: REMELT

Emission Point: 00FH4

Height (ft.): 100 Diameter (in.): 36  
NYTMN (km.): 4816.494 NYTME (km.): 382.528 Building: REMELT

Emission Point: 00FH5

Height (ft.): 100 Diameter (in.): 36  
NYTMN (km.): 4816.53 NYTME (km.): 382.5 Building: REMELT

Emission Point: 00FM3

Height (ft.): 70 Diameter (in.): 71  
NYTMN (km.): 4816. NYTME (km.): 382. Building: REMELT

Emission Point: 00FM4

Height (ft.): 100 Diameter (in.): 70  
NYTMN (km.): 4816.506 NYTME (km.): 382.518 Building: REMELT

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Emission Point: 00FM5  
Height (ft.): 100 Diameter (in.): 70  
NYTMN (km.): 4816.54 NYTME (km.): 382.492 Building: REMELT

Emission Point: 00FM6  
Height (ft.): 100 Diameter (in.): 89  
NYTMN (km.): 4816.545 NYTME (km.): 382.487 Building: REMELT

**Condition 96: Process Definition By Emission Unit**  
**Effective between the dates of 12/20/2016 and Permit Expiration Date**

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 96.1(From Mod 4):**

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

Emission Unit: H-OTMIL  
Process: HOT Source Classification Code: 3-04-001-50

Process Description:

THIS PROCESS CONSISTS OF A MULTI-STAND ALUMINUM HOT ROLLING MILL, SHEARS, TRIMMERS, OIL FILTRATION AND TREATMENT, ULTRAFILTRATION AND ASSOCIATED MATERIAL HANDLING AND PACKAGING SYSTEMS. VARIOUS MAINTENANCE, TESTING AND OFFICE FACILITIES ARE ALSO INCLUDED IN THIS EMISSION UNIT. IN THIS PROCESS ALUMINUM INGOTS ARE ROLLED INTO ALUMINUM SHEET. EMISSIONS FROM THE VARIOUS PROCESS OPERATIONS ARE BY VENTILATION SYSTEMS CONSISTING OF HOODS, ENCLOSURES, DUCTWORK, FANS INTERTIAL SEPARATORS AND/OR EXHAUST STACKS. EMISSION POINTS 00HMS, HM105, HM106, HM121, HM122 AND HM123 AND ASSOCIATED WITH THIS PROCESS.

Two Busch Purifier units rated at 90,000 CFM each will be replaced with a single fume exhaust system rated at 285,000 CFM. Emission Points HM105 and HM106 will be eliminated and replaced with a new emission point (HMFE1). Additional collection points will be added to improve fume capture efficiency. Emission sources HM10P and HM11) will be eliminated and replaced with HMME1, HMME2 and HMMES.

Emission Source/Control: HM10P - Control  
Control Type: CENTRIFUGAL

Emission Source/Control: HM11P - Control  
Control Type: CENTRIFUGAL

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Emission Source/Control: HMME1 - Control  
Control Type: MIST ELIMINATOR

Emission Source/Control: HMME2 - Control  
Control Type: MIST ELIMINATOR

Emission Source/Control: HMMES - Control  
Control Type: MIST ELIMINATOR

Emission Source/Control: 0HMS1 - Process  
Design Capacity: 8 tons per hour

Emission Source/Control: HM100 - Process

Emission Source/Control: HM120 - Process  
Design Capacity: 125 tons per hour

**Item 96.2(From Mod 0):**

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

Emission Unit: 0-000CL

Process: CL1

Source Classification Code: 3-04-001-99

Process Description:

Process CL1 consists of various combustion and process emission sources associated with aluminum finishing operations. The finishing operations included in process CL1 include annealing, surface preparation, and other mechanical processes. The annealing furnace (C1FCE) utilizes low-NOx burners. Furnace emissions shall pass through a recuperator, which provides an energy benefit. Emissions (Non-VOC) from the surface preparation (C1CON), cleaning (C1PCL), and applicator (C1CTR) emission sources are directed through a common wet scrubber with a demister (SCR1P). Scrap from the trimmer (C1TRM) is directed to a cyclone (TRM1P) and directed into scrap boxes. The reluber (C1RLB) is used to apply lubrication to the sheet at the end of the process. Emissions from the reluber are directed to a demister (RLB1P) and vented inside the building. This process also includes three hot water generators that are exempt from the permitting requirements provided in 6 NYCRR Part 201.

Emission Source/Control: C1FCE - Combustion  
Design Capacity: 20.2 million Btu per hour

Emission Source/Control: RLB1P - Control  
Control Type: MIST ELIMINATOR

Emission Source/Control: SCR1P - Control  
Control Type: WET SCRUBBER



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Emission Source/Control: TRM1P - Control  
Control Type: CENTRIFUGAL

Emission Source/Control: C1CON - Process

Emission Source/Control: C1CTR - Process

Emission Source/Control: C1PCL - Process

Emission Source/Control: C1RLB - Process

Emission Source/Control: C1TRM - Process

**Item 96.3(From Mod 0):**

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

Emission Unit: 0-000CL

Process: CL2

Source Classification Code: 3-04-001-99

Process Description:

Process CL2 consists of various combustion and process emission sources associated with aluminum finishing operations. The finishing operations included in process CL2 include annealing, surface preparation, and other mechanical processes. The annealing furnace (C2FCE) utilizes low-NOx burners. Furnace emissions shall pass through a recuperator, which provides an energy benefit. Emissions (Non-VOC) from the surface preparation (C2CON), cleaning (C2PCL), and applicator (C2CTR) emission sources are directed through a common wet scrubber with a demister (SCR2P). Scrap from the trimmer (C2TRM) is directed to a cyclone (TRM2P) and directed into scrap boxes. The reluber (C2RLB) is used to apply lubrication to the sheet at the end of the process. Emissions from the reluber are directed to a demister (RLB2P) and vented inside the building. This process also includes three hot water generators that are exempt from the permitting requirements provided in 6 NYCRR Part 201.

Emission Source/Control: C2FCE - Combustion  
Design Capacity: 20.2 million British thermal units

Emission Source/Control: RLB2P - Control  
Control Type: MIST ELIMINATOR

Emission Source/Control: SCR2P - Control  
Control Type: WET SCRUBBER

Emission Source/Control: TRM2P - Control  
Control Type: CENTRIFUGAL

Emission Source/Control: C2CON - Process

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Emission Source/Control: C2CTR - Process

Emission Source/Control: C2PCL - Process

Emission Source/Control: C2RLB - Process

Emission Source/Control: C2TRM - Process

**Item 96.4(From Mod 0):**

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

Emission Unit: 0-000CL

Process: CL3

Source Classification Code: 3-04-001-99

Process Description:

Process CL3 consists of various combustion and process emission sources associated with aluminum finishing operations. The finishing operations included in process CL3 include annealing, surface preparation, and other mechanical processes. The annealing furnace (C3FCE) utilizes low-NOx burners. Furnace emissions shall pass through a recuperator, which provides an energy benefit. Emissions (Non-VOC) from the surface preparation (C3CON), cleaning (C3PCL), and applicator (C3CTR) emission sources are directed through a common wet scrubber with a demister (SCR3P). Scrap from the trimmer (C3TRM) is directed to a cyclone (TRM3P) and directed into scrap boxes. The reluber (C3RLB) is used to apply lubrication to the sheet at the end of the process. Emissions from the reluber are directed to a demister (RLB3P) and vented inside the building. This process also includes three hot water generators that are exempt from the permitting requirements provided in 6 NYCRR Part 201.

Emission Source/Control: C3FCE - Combustion

Emission Source/Control: RLB3P - Control  
Control Type: MIST ELIMINATOR

Emission Source/Control: SCR3P - Control  
Control Type: WET SCRUBBER

Emission Source/Control: TRM3P - Control  
Control Type: CENTRIFUGAL

Emission Source/Control: C3CON - Process

Emission Source/Control: C3CTR - Process

Emission Source/Control: C3PCL - Process

Emission Source/Control: C3RLB - Process



Emission Source/Control: C3TRM - Process

**Item 96.5(From Mod 0):**

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

Emission Unit: 0-000CL

Process: SDR

Source Classification Code: 3-04-001-99

Process Description:

The scrap dryers remove moisture from automotive scrap prior to processing in Recycle 1 furnaces F and G. The scrap ranges from 1" by 1" to 4" by 18." The scrap can be fed directly to the furnace or stored.

Emission Source/Control: SDRYP - Control

Control Type: WET SCRUBBER

Emission Source/Control: SDRY2 - Process

Design Capacity: 6 million Btu per hour

Emission Source/Control: SDRY3 - Process

Design Capacity: 6 million Btu per hour

**Item 96.6(From Mod 3):**

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

Emission Unit: 0-00DC7

Process: P01

Source Classification Code: 3-04-001-14

Process Description:

A 60 metric ton melter/holder Group 1 furnace fired by natural gas, with an in-line fluxer.

Emission Source/Control: 760IF - Process

Emission Source/Control: 760MT - Process

**Item 96.7(From Mod 3):**

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

Emission Unit: 0-00DC7

Process: P02

Source Classification Code: 3-04-001-14

Process Description:

A 60 metric ton melter/holder Group 1 furnace with an in-line fluxer and a 20 metric ton melter/holder Group 1 furnace with an in-line fluxer.

Emission Source/Control: 720IF - Process

Emission Source/Control: 720MT - Process

Emission Source/Control: 760IF - Process

Emission Source/Control: 760MT - Process

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**Item 96.8(From Mod 3):**

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

Emission Unit: 0-00DC7

Process: P03

Source Classification Code: 3-04-001-14

Process Description:

A 20 metric ton melter/holder Group 1 furnace fired by natural gas, with an in-line fluxer.

Emission Source/Control: 720IF - Process

Emission Source/Control: 720MT - Process

**Item 96.9(From Mod 0):**

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

Emission Unit: 0-00RC1

Process: 0BH

Source Classification Code: 3-04-001-03

Process Description:

This process involves the operation of the melting furnace F and G side wells and their associated baghouse (RC1BH).

Emission Source/Control: R1LNF - Control

Control Type: LOW NOX BURNERS, FLUE GAS  
RECIRCULATION

Emission Source/Control: R1LNG - Control

Control Type: LOW NOX BURNERS, FLUE GAS  
RECIRCULATION

Emission Source/Control: RC1BH - Control

Control Type: FABRIC FILTER

Emission Source/Control: 0RC1F - Process

Design Capacity: 9 tons per hour

Emission Source/Control: 0RC1G - Process

Design Capacity: 9 tons per hour

**Item 96.10(From Mod 0):**

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

Emission Unit: 0-00RC1

Process: MHF

Source Classification Code: 3-04-001-03

Process Description:

This process involves main hearth operation of Melting Furnace F.

Emission Source/Control: 0RC1F - Process

Design Capacity: 9 tons per hour

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**Item 96.11(From Mod 0):**

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

Emission Unit: 0-00RC1

Process: MHG

Source Classification Code: 3-04-001-03

Process Description:

This process involves main hearth operation of Melting Furnace G.

Emission Source/Control: 0RC1G - Process

Design Capacity: 9 tons per hour

**Item 96.12(From Mod 3):**

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

Emission Unit: 0-00RC1

Process: RC1

Source Classification Code: 3-04-001-31

Process Description:

This is an aluminum scrap melting process consisting of two, side-well melting furnaces fueled by oil and/or natural gas, one natural gas fired melting furnace, one aluminum sow drying oven and scrap handling and molten metal handling equipment. Various maintenance, testing and office facilities are also included in this emission unit. The aluminum scrap melted in these furnaces may contain small quantities of oil or lacquer coatings. Emissions from the furnace side-well melting systems are collected by a ventilation system consisting of hoods, enclosures, ductwork, fan and baghouse. Emission points associated with this process include: NR1F0, NR1F1, NR1G0, NR1G1, 00R21, 000E2 and 0SOW2 as well as the following emission points which were physically removed in 1996: 00151, 00152, 0SDC1, 0SDC2, 0SDC3.

Emission Source/Control: R1LNF - Control

Control Type: LOW NOX BURNERS, FLUE GAS  
RECIRCULATION

Emission Source/Control: R1LNG - Control

Control Type: LOW NOX BURNERS, FLUE GAS  
RECIRCULATION

Emission Source/Control: RC1BH - Control

Control Type: FABRIC FILTER

Emission Source/Control: 0RC1F - Process

Design Capacity: 9 tons per hour

Emission Source/Control: 0RC1G - Process

Design Capacity: 9 tons per hour

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**Item 96.13(From Mod 0):**

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

Emission Unit: 0-GWATR

Process: GWR

Source Classification Code: 5-04-104-20

Process Description:

THIS IS A GROUNDWATER REMEDIATION SYSTEM THAT OPERATES TO REMOVE OIL AND TRACE AMOUNTS OF CHLORINATED SOLVENTS FROM GROUNDWATER UNDER THE FOUNDATION OF THE INGOT PREP BUILDING. EMISSION POINT GW001 IS THE ONLY EMISSION POINT ASSOCIATED WITH THIS PROCESS.

Emission Source/Control: GSTRP - Process

Design Capacity: 400 cubic feet per minute (standard conditions)

**Item 96.14(From Mod 0):**

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

Emission Unit: 0-RMSOW

Process: SO1

Source Classification Code: 3-04-001-14

Process Description:

A clean charge (Group 2) aluminum melting furnace with ultra-low NOx burners.

Emission Source/Control: SOWMS - Process

Design Capacity: 38 million British thermal units

**Item 96.15(From Mod 0):**

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

Emission Unit: 0-SCALP

Process: SC1

Source Classification Code: 3-04-001-60

Process Description:

This process consists of a 300,000 lb. silo and a 50,000 lb. silo used to temporarily store scalper chips. Scalper chips are conveyed from the scalping operation through a dedicated high-efficiency cyclone and into one of the silos. Scalper chips are screw fed into a blower which conveys the chips to one of 5 downstream locations in process sc2.

Emission Source/Control: 1SICY - Control

Control Type: SINGLE CYCLONE

Emission Source/Control: 2SICY - Control

Control Type: SINGLE CYCLONE

Emission Source/Control: 1SILO - Process

Emission Source/Control: 2SILO - Process

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**Item 96.16(From Mod 0):**

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

Emission Unit: 0-SCALP

Process: SC2

Source Classification Code: 3-04-001-60

Process Description:

Scalper chips conveyed from the silos are fed into one of four screw conveyors or a chip bunker each controlled by an individual high efficiency cyclone. The screw conveyors are cycled such that one conveyor is filled with chips while the other screw conveyor feeds chips into the furnace. Two screw conveyors feed directly into the D Furnace sidewell (existing) and two screw conveyors feed directly into the E Furnace sidewell (existing). The fifth cyclone is associated with a chip bunker that may be utilized if one or both of the furnaces are not operating. All five of the high efficiency cyclones associated with this process (SC2) are exhausted through a dust collector (CTBH1 rated for 0.01 grains/dscf (Emission Point CHIP1).

Emission Source/Control: BUCYC - Control  
Control Type: SINGLE CYCLONE

Emission Source/Control: CTBH1 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: D1CYC - Control  
Control Type: SINGLE CYCLONE

Emission Source/Control: D2CYC - Control  
Control Type: SINGLE CYCLONE

Emission Source/Control: E1CYC - Control  
Control Type: SINGLE CYCLONE

Emission Source/Control: E2CYC - Control  
Control Type: SINGLE CYCLONE

Emission Source/Control: SCONV - Process

**Item 96.17(From Mod 0):**

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

Emission Unit: 3-ANEAL

Process: 0F3

Source Classification Code: 3-04-001-12

Process Description:

Annealing furnace #3 is an electric annealing furnace utilizing 36 elements @ 73 KW per heat element. The furnace will be used to temper coiled sheet metal to customer specifications. Nitrogen cover gas will be supplied from either an existing nitrogen plant or from

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one of three Exogas Generators.

Emission Source/Control: ANNL3 - Process  
Design Capacity: 2,625 kilowatts

Emission Source/Control: XGAS3 - Process  
Design Capacity: 3.5 pounds per million Btus

**Item 96.18(From Mod 0):**

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

Emission Unit: C-OLD72

Process: C72

Source Classification Code: 3-04-001-50

Process Description:

THIS PROCESS CONSISTS OF A 72" WIDE ALUMINUM COLD ROLLING MILL, ANNEALING FURNACE, SHEARS, TRIMMERS, TENSION LEVELERS, SIFTERS, LUBRICATION SYSTEMS, OIL FILTRATION AND DISTILLATION EQUIPMENT AND ASSOCIATED MATERIAL HANDLING AND PACKAGING SYSTEMS. VARIOUS MAINTENANCE, TESTING AND OFFICE FACILITIES ARE ALSO INCLUDED IN THIS EMISSION UNIT. IN THIS PROCESS COILED ALUMINUM SHEET IS ROLLED TO A REDUCED THICKNESS PRODUCING COILS OF ALUMINUM SHEET. THESE COILS ARE SUBSEQUENTLY PROCESSED THROUGH ANNEALING, TRIMMING, SIFTING AND/OR LUBRICATING OPERATIONS PRIOR TO PACKAGING IN PREPARATION FOR SHIPMENT TO THE CUSTOMER. EMISSIONS FROM THE VARIOUS PROCESS OPERATIONS ARE BY VENTILATION SYSTEMS CONSISTING OF HOODS, ENCLOSURES, DUCTWORK, FANS, STACKS AND ASSOCIATED POLLUTION CONTROL EQUIPMENT. EMISSION POINTS 0000A, 00QDA, 00QDD, AND 0ANL1 ARE ASSOCIATED WITH THIS PROCESS.

Annealing furnace 1 is a natural gas fired annealing furnace for tempering coiled aluminum sheets to customer specifications.

Nitrogen will be supplied to the furnace from either an existing nitrogen plant or from one of the three Exogas generators.

Emission Source/Control: ANNL1 - Combustion  
Design Capacity: 24 million Btu per hour

Emission Source/Control: CECO7 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: CMQDA - Control



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Control Type: CENTRIFUGAL

Emission Source/Control: CMQDD - Control  
Control Type: CENTRIFUGAL

Emission Source/Control: PRE72 - Control  
Control Type: BAROMETRIC CONDENSER

Emission Source/Control: SULZ7 - Control  
Control Type: VAPOR RECOVERY SYS(INCL.  
CONDENSERS,HOODING, OTHER ENCLOSURES)

Emission Source/Control: CLD72 - Process  
Design Capacity: 75 tons per hour

Emission Source/Control: FINH1 - Process

Emission Source/Control: FINS1 - Process

**Item 96.19(From Mod 0):**

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

Emission Unit: C-OLD88

Process: C88

Source Classification Code: 3-04-001-50

Process Description:

THIS PROCESS CONSISTS OF A 88" WIDE ALUMINUM COLD ROLLING MILL, ANNEALING FURNACE, SHEARS, TRIMMERS, TENSION LEVELERS, SIFTERS, LUBRICATION SYSTEMS, OIL FILTRATION AND DISTILLATION EQUIPMENT AND ASSOCIATED MATERIAL HANDLING AND PACKAGING SYSTEMS. VARIOUS MAINTENANCE, TESTING AND OFFICE FACILITIES ARE ALSO INCLUDED IN THIS EMISSION UNIT. IN THIS PROCESS COILED ALUMINUM SHEET IS ROLLED TO A REDUCED THICKNESS PRODUCING COILS OF ALUMINUM SHEET. THESE COILS ARE SUBSEQUENTLY PROCESSED THROUGH ANNEALING, TRIMMING, SIFTING AND/OR LUBRICATING OPERATIONS PRIOR TO PACKAGING IN PREPARATION FOR SHIPMENT TO THE CUSTOMER. EMISSIONS FROM THE VARIOUS PROCESS OPERATIONS ARE BY VENTILATION SYSTEMS CONSISTING OF HOODS, ENCLOSURES, DUCTWORK, FANS, STACKS AND ASSOCIATED POLLUT ION CONTROL EQUIPMENT. EMISSION POINTS 00CM88, 00QDB, AND 0ANL2 ARE ASSOCIATED WITH THIS PROCESS.

Annealing Furnace 1 is a natural gas fired annealing furnace for tempering coiled aluminum sheets to customer specifications. Nitrogen will be supplied to the furnace

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from either an existing nitrogen plant or  
from either an existing nitrogen plant or  
from one of three Exogas generators.

Emission Source/Control: ANNL2 - Combustion  
Design Capacity: 24 million Btu per hour

Emission Source/Control: CECO8 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: CMQDB - Control  
Control Type: CENTRIFUGAL

Emission Source/Control: PRE88 - Control  
Control Type: BAROMETRIC CONDENSER

Emission Source/Control: SULZ8 - Control  
Control Type: VAPOR RECOVERY SYS(INCL.  
CONDENSERS,HOODING, OTHER ENCLOSURES)

Emission Source/Control: WETDC - Control  
Control Type: WET SCRUBBER

Emission Source/Control: CLD88 - Process  
Design Capacity: 90 tons per hour

Emission Source/Control: FINS2 - Process

**Item 96.20(From Mod 0):**

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

Emission Unit: D-ROSS1

Process: DRS

Source Classification Code: 3-04-001-60

Process Description:

THIS IS AN ALUMINUM DROSS COOLING, STORAGE AND HANDLING FACILITY. IN THIS OPERATION ALUMINUM DROSS CONTAINED IN METAL PANS IS COVERED WITH SALT OR INERT GAS TO MINIMIZE OXIDATION DURING COOLING. FOLLOWING COOLING THE DROSS IS TRANSFERRED TO TEMPORARY STORAGE BINS WHICH ARE SUBSEQUENTLY DUMPED INTO TRUCKS OR RAIL CARS FOR SHIPMENT TO OFF-SITE RECYCLING OPERATIONS. EMISSION POINT 0DCR3 IS THE ONLY EMISSION POINT ASSOCIATED WITH THIS PROCESS.

Emission Source/Control: DROS1 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: DHAND - Process

**Item 96.21(From Mod 0):**

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

Emission Unit: F-INISH

Process: TL3

Source Classification Code: 4-01-003-98

Process Description:

The tension leveler consists on an unwind section, a cleaning section, and a rewind section. Scrap is conveyed via a quickdraft system (TL3QD) and collected in scrap boxes. The air exhausts out 00QD4.

Emission Source/Control: TL3QD - Process

**Item 96.22(From Mod 0):**

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

Emission Unit: I-NPREP

Process: INP

Source Classification Code: 3-04-001-60

Process Description:

THIS PROCESS CONSISTS OF SCALPER (MILLING) MACHINES AND ASSOCIATED ALUMINUM CHIP HANDLING SYSTEMS WHICH MACHINE SURFACES OF ALUMINUM INGOTS IN PREPARATION FOR HOT ROLLING. THIS PROCESS ALSO INCLUDES SEVERAL NATURAL GAS OR PROPANE FUELED HOMOGENIZING FURNACES UTILIZED TO PREHEAT AND CONDITION ALUMINUM INGOTS PRIOR TO HOT ROLLING. VARIOUS MAINTENANCE AND OFFICE FACILITIES ARE ALSO INCLUDED IN THIS EMISSION UNIT. THE FOLLOWING EMISSION POINTS ARE ASSOCIATED WITH THIS PROCESS: P0102, P0304, P0506, P0708, P0910, P1112, P1314, P1516, P1718, P1920, P2122, PUSH1 AND 000E3.

Emission Source/Control: PIT01 - Combustion

Design Capacity: 26 million Btu per hour

Emission Source/Control: PIT02 - Combustion

Design Capacity: 26 million Btu per hour

Emission Source/Control: PIT03 - Combustion

Design Capacity: 26 million Btu per hour

Emission Source/Control: PIT04 - Combustion

Design Capacity: 26 million Btu per hour

Emission Source/Control: PIT05 - Combustion

Design Capacity: 26 million Btu per hour

Emission Source/Control: PIT06 - Combustion

Design Capacity: 26 million Btu per hour

Emission Source/Control: PIT07 - Combustion

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Design Capacity: 26 million Btu per hour

Emission Source/Control: PIT08 - Combustion  
Design Capacity: 26 million Btu per hour

Emission Source/Control: PIT09 - Combustion  
Design Capacity: 26 million Btu per hour

Emission Source/Control: PIT10 - Combustion  
Design Capacity: 26 million Btu per hour

Emission Source/Control: PIT11 - Combustion  
Design Capacity: 26 million Btu per hour

Emission Source/Control: PIT12 - Combustion  
Design Capacity: 26 million Btu per hour

Emission Source/Control: PIT13 - Combustion  
Design Capacity: 26 million Btu per hour

Emission Source/Control: PIT14 - Combustion  
Design Capacity: 26 million Btu per hour

Emission Source/Control: PIT15 - Combustion  
Design Capacity: 30 million Btu per hour

Emission Source/Control: PIT16 - Combustion  
Design Capacity: 30 million Btu per hour

Emission Source/Control: PIT17 - Combustion  
Design Capacity: 30 million Btu per hour

Emission Source/Control: PIT18 - Combustion  
Design Capacity: 30 million Btu per hour

Emission Source/Control: PIT19 - Combustion  
Design Capacity: 24 million Btu per hour

Emission Source/Control: PIT20 - Combustion  
Design Capacity: 24 million Btu per hour

Emission Source/Control: PIT21 - Combustion  
Design Capacity: 24 million Btu per hour

Emission Source/Control: PIT22 - Combustion  
Design Capacity: 24 million Btu per hour

Emission Source/Control: SWCY1 - Control  
Control Type: CENTRIFUGAL

Emission Source/Control: PUSH1 - Process  
Design Capacity: 83 million Btu per hour

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Emission Source/Control: SCALP - Process

**Item 96.23(From Mod 0):**

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

Emission Unit: N-PUSHR

Process: PF2

Source Classification Code: 3-04-001-60

Process Description:

The pusher furnace PUSH2 is used to preheat aluminum ingots prior to rolling.

Emission Source/Control: PUSH2 - Process

**Item 96.24(From Mod 3):**

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

Emission Unit: R-C2CLD

Process: R2C

Source Classification Code: 3-04-001-60

Process Description:

This is an aluminum scrap shredding and separation process consisting of a bale breaker, rotary shears, a trommel classifier, magnetic separators, air classifiers, screens, conveyors and storage hoppers. Various maintenance, testing and offices are also included in this emission unit. Particulate emissions from this emission unit are collected by a ventilation system consisting of hoods, enclosures, ductwork, fan and baghouse. Emission point RCC01 is the only emission point associated with this process.

Emission Source/Control: R2CY1 - Control

Control Type: SINGLE CYCLONE

Emission Source/Control: R2CY2 - Control

Control Type: SINGLE CYCLONE

Emission Source/Control: RCCBH - Control

Control Type: FABRIC FILTER

Emission Source/Control: R2CLD - Process

Design Capacity: 20 tons per hour

Emission Source/Control: R2PRE - Process

Design Capacity: 30,000 pounds per hour

**Item 96.25(From Mod 3):**

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

Emission Unit: R-C2HOT

Process: R2H

Source Classification Code: 3-04-001-31

Process Description:

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This is an aluminum scrap delacquering and melting process consisting of a rotary kiln, two side-well aluminum melting furnaces and various material separation and handling systems. Various maintenance, testing and office facilities are also included in this process. VOC emissions from the kiln are controlled by an afterburner and HCl emissions are controlled using a sodium bicarbonate injection system. Particulate emissions from this emission unit are collected by a ventilation system consisting of hoods, enclosures, ductwork, fan and baghouse. Emission points associated with this process include: RCH01, RCBP1, RCBP2 and RCBP3. RCBP1, RCBP2 and RCBP3 are emergency vents and exempt as defined by 6 NYCRR part 201-3.2. RCB01 is an exhaust from a sodium bicarbonate bin vent filter and is also exempt as defined by 6 NYCRR part 201-3.2. annual NOx emissions are limited to 39.9 tons/yr by permit condition.

Emission Source/Control: R2HBH - Control  
Control Type: FABRIC FILTER

Emission Source/Control: R2INC - Control  
Control Type: DIRECT FLAME AFTERBURNER WITH HEAT EXCHANGER

Emission Source/Control: R2LND - Control  
Control Type: LOW NOX BURNERS, FLUE GAS RECIRCULATION

Emission Source/Control: R2LNE - Control  
Control Type: LOW NOX BURNERS, FLUE GAS RECIRCULATION

Emission Source/Control: R2VNT - Control  
Control Type: CHEMICAL NEUTRALIZATION

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

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

Emission Source/Control: GVENT - Process

Emission Source/Control: R2HOT - Process  
Design Capacity: 18 tons per hour

Emission Source/Control: RC2FD - Process

Emission Source/Control: RC2FE - Process

**Item 96.26(From Mod 0):**

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

Emission Unit: R-EMELT

Process: RMT

Source Classification Code: 3-04-001-04

Process Description:

THIS IS AN ALUMINUM SCRAP MELTING AND CASTING FACILITY CONSISTING OF SEVERAL ALUMINUM SCRAP MELTING FURNACES, HOLDING FURNACES, MOLTEN METAL TREATMENT EQUIPMENT, MATERIAL HANDLING FACILITIES AND DIRECT-CHILL CASTING PITS. THESE FURNACES ARE FUELED BY OIL AND/OR NATURAL GAS. VARIOUS COOLING WATER SUPPLY AND TREATMENT SYSTEMS ARE ALSO ASSOCIATED WITH THIS UNIT. VARIOUS MAINTENANCE, TESTING AND OFFICE FACILITIES ARE ALSO INCLUDED IN THIS EMISSION UNIT. ALUMINUM SCRAP AND MOLTEN ALUMINUM ARE TRANSFERRED INTO THESE FURNACES. VARIOUS ALLOYING METALS ARE ADDED TO ADJUST THE COMPOSITION OF THE MOLTEN METAL. VARIOUS METAL TREATMENT OPERATIONS INCLUDING SALT AND/OR CHLORINE FLUXING, FILTRATION AND DEGASSING ARE CONDUCTED PRIOR TO CASTING THE METAL INTO ALUMINUM INGOTS. THIS PROCESS IS COVERED UNDER A FEDERAL HAP EARLY REDUCTIONS PROGRAM TITLE V PERMIT NO. ERP-NY001. EMISSION POINTS ASSOCIATED WITH THIS PROCESS INCLUDE: 00FH3, 00FH4, 00FH5, 00FM3, 00FM4, 00FM5 AND 00FM6. ALSO INCLUDED ARE THE FOLLOWING EMISSION POINTS THAT WERE PHYSICALLY REMOVED IN 1992: 00FH1, 00FH2, 00FM1 AND 00FM2.

Emission Source/Control: RMLN3 - Control  
Control Type: LOW NOx BURNER

Emission Source/Control: RMLN4 - Control  
Control Type: LOW NOx BURNER

Emission Source/Control: RMLN5 - Control  
Control Type: LOW NOx BURNER

Emission Source/Control: RMCC3 - Process  
Design Capacity: 25 tons per hour

Emission Source/Control: RMCC4 - Process  
Design Capacity: 30 tons per hour

Emission Source/Control: RMCC5 - Process  
Design Capacity: 30 tons per hour



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Emission Source/Control: RMCC6 - Process  
Design Capacity: 35 tons per hour

Emission Source/Control: RMFH3 - Process

Emission Source/Control: RMFH4 - Process

Emission Source/Control: RMFH5 - Process

Emission Source/Control: RMFH6 - Process  
Design Capacity: 35 tons per hour

Emission Source/Control: RMFM3 - Process  
Design Capacity: 25 tons per hour

Emission Source/Control: RMFM4 - Process  
Design Capacity: 30 tons per hour

Emission Source/Control: RMFM5 - Process  
Design Capacity: 30 tons per hour

Emission Source/Control: RMFM6 - Process  
Design Capacity: 35 tons per hour

Emission Source/Control: RMIN3 - Process

Emission Source/Control: RMIN4 - Process

Emission Source/Control: RMIN5 - Process

Emission Source/Control: RMIN6 - Process

**Item 96.27(From Mod 0):**

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

Emission Unit: T-UMBL1

Process: DHT

Source Classification Code: 3-04-001-16

Process End Date: 12/30/2018

Process Description:

Process DHT consists of a dross tumbler which is used to tumble/screen skimmed and cooled dross. The product of the dross tumbler will be recycled dross in various sizes that will be reused in the melters and furnaces. The emissions generated by the dross tumbler will be directed to the existing dross baghouse (the baghouse is listed in the current Title V permit under the D-ROSS1 emission unit and identified as emission source DROS1 exhausting through emission point 0DCR3).

Emission Source/Control: TMBLR - Process      Removal Date: 12/30/2018

**Condition 4-3: Compliance Certification**





**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 200.7**

**Item 4-3.1:**

The Compliance Certification activity will be performed for:

Emission Unit: H-OTMIL

**Item 4-3.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall submit to the Department an Operation and Maintenance Plan for the new emission controls (PiTTek) to be installed on the 100 inch hot rolling mill. Such plan shall be submitted no later than 90 days after commencing operation of the new emission controls.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 4-4: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 231-11.2**

**Item 4-4.1:**

The Compliance Certification activity will be performed for:

Emission Unit: H-OTMIL

**Item 4-4.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition is applicable on and after the commencement of operation of the new air pollution control system commences operation.

1. The owner or operator shall maintain the following information for a minimum of five years:
  - (i) a description of the modification;
  - (ii) an identification of each new or modified emission source(s) including the associated processes and emission unit;
  - (iii) the calculation of the project emission potential for each modified emission source(s) including supporting documentation; and



(iv) the date the modification commenced operation.

2. The owner or operator shall monitor the emissions of each regulated NSR contaminant from the emission source(s) that will increase as a result of the modification, and calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis for a period of 5 years following resumption of regular operations.

Emissions of PM and PM10 shall be computed using the results of emissions testing. Emissions of PM2.5 shall be computed as the product of 0.375 and the PM fraction or by emission testing. Emissions of VOC shall be computed using the results of emissions testing, or engineering calculations as approved by the Department.

3. The owner or operator shall submit, in the annual compliance report, for each year during which records must be generated in accordance with paragraph (2) of this subdivision. The report must contain:

- (i) the name, address, and telephone number of the major facility;
- (ii) the annual emissions as calculated pursuant to paragraph (2) of this subdivision; and
- (iii) a comparison of actual annual emissions to the projected actual emissions and, if applicable, an explanation as to why the actual annual emissions exceeded the projected actual emissions.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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



**STATE ONLY ENFORCEABLE CONDITIONS**

**\*\*\*\* Facility Level \*\*\*\***

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

**Item A: Emergency Defense - 6 NYCRR 201-1.5**

An emergency, as defined by subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the Department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

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

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

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

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

(4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

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

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

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and



standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

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

**STATE ONLY APPLICABLE REQUIREMENTS**

**The following conditions are state applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.**

**Condition 106: Contaminant List**

**Effective between the dates of 12/20/2016 and Permit Expiration Date**

**Applicable State Requirement:ECL 19-0301**

**Item 106.1:**

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

CAS No: 000630-08-0  
Name: CARBON MONOXIDE

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

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

CAS No: 007647-01-0  
Name: HYDROGEN CHLORIDE

CAS No: 007664-93-9  
Name: SULFURIC ACID

CAS No: 051207-31-9  
Name: 2,3,7,8-TETRACHLORODIBENZOFURAN

CAS No: 068188-85-2  
Name: FLUORIDES

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CAS No: 0NY075-00-0  
Name: PARTICULATES

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

CAS No: 0NY075-02-5  
Name: PM 2.5

CAS No: 0NY090-00-0  
Name: OIL MIST

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

CAS No: 0NY504-00-0  
Name: 40 CFR 63 - TOTAL HYDROCARBONS (THC)

CAS No: 0NY998-00-0  
Name: VOC