

**New York State Department of Environmental Conservation  
Facility DEC ID: 6405800051**



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

**IDENTIFICATION INFORMATION**

Permit Type: Air State Facility  
Permit ID: 6-4058-00051/00003  
Mod 0 Effective Date: 05/26/2005 Expiration Date: No expiration date.  
Mod 1 Effective Date: 09/11/2006 Expiration Date: No expiration date.

Permit Issued To: MASSENA METAL INC  
PO BOX 5280  
MASSENA, NY 13662-5280

Facility: MASSENA METAL INC  
SOUTH RACQUETTE RD & SOUTH MAIN ST  
MASSENA, NY 13662

Contact: GARY MASTER  
MASSENA METAL INC  
PO BOX 5280  
MASSENA, NY 13662-5280  
(315) 769-3846

Description:  
Rather than rebuild the old sweat furnace, the facility has decided to install a new furnace of the same size with more efficient pollution controls.

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

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

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 permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

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

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

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

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

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

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



**LIST OF CONDITIONS**

**DEC GENERAL CONDITIONS**

**General Provisions**

Facility Inspection by the Department

Relationship of this Permit to Other Department Orders and Determinations

Applications for Permit Renewals and Modifications

Permit Modifications, Suspensions and Revocations by the Department

**Facility Level**

Submission of Applications for Permit Modification or Renewal -REGION 6  
HEADQUARTERS



**DEC GENERAL CONDITIONS**  
**\*\*\*\* General Provisions \*\*\*\***  
**GENERAL CONDITIONS - Apply to ALL Authorized Permits.**

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

**Item 1.1:**

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

**Item 1.2:**

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

**Item 1.3:**

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

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

**Item 2.1:**

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

**Condition 3: Applications for Permit Renewals and Modifications**  
**Applicable State Requirement: 6NYCRR 621.13**

**Item 3.1:**

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

**Item 3.2:**

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

**Item 3.3:**

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

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transfer of ownership.

**Condition 4: Permit Modifications, Suspensions and Revocations by the Department**  
**Applicable State Requirement: 6NYCRR 621.14**

**Item 4.1:**

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

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

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

**Condition 5: Submission of Applications for Permit Modification or Renewal -REGION 6 HEADQUARTERS**  
**Applicable State Requirement: 6NYCRR 621.5(a)**

**Item 5.1:**

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

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



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

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

**IDENTIFICATION INFORMATION**

Permit Issued To: MASSENA METAL INC  
PO BOX 5280  
MASSENA, NY 13662-5280

Facility: MASSENA METAL INC  
SOUTH RACQUETTE RD & SOUTH MAIN ST  
MASSENA, NY 13662

Authorized Activity By Standard Industrial Classification Code:  
3341 - SECONDARY NONFERROUS METALS

Mod 0 Permit Effective Date: 05/26/2005

Permit Expiration Date: No expiration date.

Mod 1 Permit Effective Date: 09/11/2006

Permit Expiration Date: No expiration date.



**LIST OF CONDITIONS**

**FEDERALLY ENFORCEABLE CONDITIONS**

**Emission Unit Level**

**EU=F-00001**

- 1 6NYCRR 202-1: Compliance Demonstration
- 3 6NYCRR 212.4(a): Emissions from new emission sources and/or modifications
- 1-1 6NYCRR 212.4(a): Compliance Demonstration
- 4 6NYCRR 212.4(c): Compliance Demonstration
- 5 6NYCRR 212.6(a): Compliance Demonstration
- 6 40CFR 63.6(e)(3), Subpart A: Compliance Demonstration
- 1-2 40CFR 63.1505(f), Subpart RRR: Compliance Demonstration
- 8 40CFR 63.1510(g), Subpart RRR: Compliance Demonstration
- 9 40CFR 63.1515(a)(6), Subpart RRR: Compliance Demonstration
- 10 40CFR 63.1515(b), Subpart RRR: Compliance Demonstration
- 11 40CFR 63.1516(b), Subpart RRR: Compliance Demonstration
- 12 40CFR 63.1517, Subpart RRR: Compliance Demonstration

**EU=F-00001,EP=00001,Proc=001,ES=AFTER**

- 1-3 40CFR 63, Subpart RRR: Compliance Demonstration

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 14 ECL 19-0301: Contaminant List
- 15 6NYCRR 201-1.4: Unavoidable noncompliance and violations
- 16 6NYCRR 201-5: Emission Unit Definition
- 17 6NYCRR 211.2: Air pollution prohibited

**Emission Unit Level**

- 18 6NYCRR 201-5: Emission Point Definition By Emission Unit
- 19 6NYCRR 201-5: Process Definition By Emission Unit



**FEDERALLY ENFORCEABLE CONDITIONS**

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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

**Item A: Sealing - 6NYCRR Part 200.5**

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

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

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

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

**Item B: Acceptable Ambient Air Quality - 6NYCRR Part 200.6**

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

**Item C: Maintenance of Equipment - 6NYCRR Part 200.7**

Any person who owns or operates an air contamination

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

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

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

(a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.

(b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

**Item E: Emergency Defense - 6NYCRR Part 201-1.5**

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

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

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

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

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

(4) The facility owner and/or operator notified the Department within two working days after the event



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occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

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

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

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

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

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

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

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

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

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific



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

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

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

**Item K: Visible Emissions Limited - 6 NYCRR Part 211.3**

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

**Item L: Open Fires - 6 NYCRR Part 215**

No person shall burn, cause, suffer, allow or permit the burning in an open fire of garbage, rubbish for salvage, or rubbish generated by industrial or commercial activities.

**Item M: 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

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

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

**FEDERAL APPLICABLE REQUIREMENTS**

**The following conditions are federally enforceable.**

**Condition 1: Compliance Demonstration**

**Effective between the dates of 05/26/2005 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 202-1**

**Item 1.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: F-00001

Regulated Contaminant(s):

CAS No: 007429-90-5 ALUMINUM

CAS No: 007439-92-1 LEAD

CAS No: 007439-97-6 MERCURY

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

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

**Item 1.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

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**Monitoring Description:**

The Department reserves the right to require the emission testing of this emission unit for D/F TEQ as necessary. The MACT limit is 0.8 ng D/F TEQ per dscm at 11% oxygen. Improper operation, maintenance, monitoring and/or reporting for the emission unit or any other unforeseen problems can be grounds for requiring a stack test for D/F, or any other contaminant pursuant to 6 NYCRR part 212, as necessary.

Upper Permit Limit: 0.8 nanograms per dry standard cubic meter

Reference Test Method: EPA Method 23

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 3: Emissions from new emission sources and/or modifications  
Effective between the dates of 05/26/2005 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 212.4(a)**

**Item 3.1:**

This Condition applies to Emission Unit: F-00001

**Item 3.2:**

No person shall cause or allow emissions that exceed the applicable permissible emission rate as determined from Table 2, Table 3, or Table 4 of 6 NYCRR Part 212 for the environmental rating issued by the commissioner.

**Condition 1-1: Compliance Demonstration  
Effective between the dates of 09/11/2006 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 212.4(a)**

**Replaces Condition(s) 2**

**Item 1-1.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: F-00001

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

**Item 1-1.2:**

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Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The scrap metal to be charged to the furnace shall have all non metal scrap removed within reason and as practiceable. Non metals should make up less than 5% by volume of the charge material. Scrap containing known amounts of magnesium, cadmium, beryllium, nickel, chromium, cobalt, selenium and Mercury shall not be charged. Also scrap containing excessive grease and oils, PCB's, radiocative wastes and other toxic chemicals shall not be charged. The operator of the furnace shall inspect the scrap being charged in the furnace. A check box on the operators log will indicate that the charge was inspected and any additional material was removed before charging.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: SCRAP

Parameter Monitored: CHARGE

Upper Permit Limit: 5 percent by volume

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2007.

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

**Condition 4: Compliance Demonstration**

**Effective between the dates of 05/26/2005 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 212.4(c)**

**Item 4.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: F-00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 4.2:**

Compliance Demonstration shall include the following monitoring:



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Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions of solid particulates are limited to less than 0.050 grains of particulates per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis. Compliance testing will be conducted at the discretion of the Department.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.050 grains per dscf

Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 5: Compliance Demonstration**  
**Effective between the dates of 05/26/2005 and Permit Expiration Date**

**Applicable Federal Requirement: 6NYCRR 212.6(a)**

**Item 5.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: F-00001

**Item 5.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will immediately investigate any instance where there is cause to believe that visible emissions above those that are normal and in compliance are occurring or have

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occurred from a process source.

If visible emissions above those that are normal (this may be zero percent opacity for many or all emission sources) and in compliance with section 212.6(a) are detected, the permittee shall determine the cause, make the necessary correction, and verify that the excess visible emissions problem has been corrected.

If visible emissions above those that are normal and in compliance continue to be present after corrections are made, the permittee will immediately notify The Department and conduct a Method 9 assessment within 24 hours to determine the degree of opacity.

Records of these observations, investigations and corrective actions will be kept on-site in a format acceptable to the Department and the semiannual progress report and annual compliance certifications required of all permittees subject to Title V must include a summary of these instances.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 8/29/2005.

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

**Condition 6: Compliance Demonstration**  
**Effective between the dates of 05/26/2005 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 63.6(e)(3), Subpart A**

**Item 6.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: F-00001

Regulated Contaminant(s):

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

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

**Item 6.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:



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The facility shall submit, and update as needed, a Start-up, Shut-down, Malfunction (SSM) Plan. Semiannual SSM Plan reports shall be submitted as required under 40 CFR 63.10. Any actions taken that are inconsistent with the SSM Plan shall be reported within 2 working days to the Department, followed up with a letter within 7 working days. The SSM Plan will then be changed to incorporate the type of action taken.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 1-2: Compliance Demonstration**  
**Effective between the dates of 09/11/2006 and Permit Expiration Date**

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

**Replaces Condition(s) 7**

**Item 1-2.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: F-00001

Regulated Contaminant(s):

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

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

**Item 1-2.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The emission limit for Dioxins and Furans is 0.80 ng D/F TEQ per DSCM (3.5E-10 gr/dscf) @ 11% Oxygen. Testing for D/F is not required under subpart RRR as long as the afterburner operates with a residence time of at least 0.8 seconds and at least 1600 degrees F. Deviations from these parameters could require testing of the emission unit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 8: Compliance Demonstration**  
**Effective between the dates of 05/26/2005 and Permit Expiration Date**

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

**Item 8.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: F-00001

Regulated Contaminant(s):

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

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

**Item 8.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must install, calibrate, maintain, and operate a device to continuously monitor and record the operating temperature of the afterburner consistent with the requirements for continuously monitoring systems in 40 CFR 63 subpart A.

The temperature monitoring device must meet each of these performance and equipment specifications:

-The temperature monitoring device must be installed at the exit of the combustion zone of the afterburner.

-The monitoring system must record the temperature in 15-minute block averages and determine and record the average temperature for each 3 hour block period.

-The recorder response range must include zero and 1.5 times the average temperature established according to the requirements in subpart RRR 1512(m).

-The reference method must be a National Institute of Standards and Technology calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION



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**Condition 9: Compliance Demonstration**

**Effective between the dates of 05/26/2005 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 63.1515(a)(6), Subpart RRR**

**Item 9.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: F-00001

Regulated Contaminant(s):

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

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

**Item 9.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall submit a notification of intent to conduct a stack test 60 days before the anticipated date of the test. The required Site Specific Test Plan can serve as the notification.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 10: Compliance Demonstration**

**Effective between the dates of 05/26/2005 and Permit Expiration Date**

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

**Item 10.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: F-00001

Regulated Contaminant(s):

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

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

**Item 10.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:



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**Permit ID: 6-4058-00051/00003**

**Facility DEC ID: 6405800051**

Each owner or operator must submit a notification of compliance status report within 60 days after Start up of the operation. A complete notification of compliance status report includes the information specified in paragraphs (a)(1) through (a)(10) of this section of subpart RRR. 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.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 11: Compliance Demonstration**  
**Effective between the dates of 05/26/2005 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 63.1516(b), Subpart RRR**

**Item 11.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: F-00001

Regulated Contaminant(s):

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

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

**Item 11.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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 40 CFR 63.10(c). When no deviations of parameters have occurred, the owner or operator must submit a report stating such for the time of the reporting period.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 12: Compliance Demonstration**  
**Effective between the dates of 05/26/2005 and Permit Expiration Date**

**New York State Department of Environmental Conservation**

**Permit ID: 6-4058-00051/00003**

**Facility DEC ID: 6405800051**



**Applicable Federal Requirement: 40CFR 63.1517, Subpart RRR**

**Item 12.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: F-00001

Regulated Contaminant(s):

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

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

**Item 12.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

All records required under this part shall be kept for at least 5 years. After two years, records may be stored offsite, but those records must be accessible within 24 hours of a request for them.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 1-3: Compliance Demonstration**

**Effective between the dates of 09/11/2006 and Permit Expiration Date**

**Applicable Federal Requirement: 40CFR 63, Subpart RRR**

**Replaces Condition(s) 13**

**Item 1-3.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: F-00001 Emission Point: 00001

Process: 001 Emission Source: AFTER

Regulated Contaminant(s):

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

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

**Item 1-3.2:**

Compliance Demonstration shall include the following monitoring:

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

**New York State Department of Environmental Conservation**

**Permit ID: 6-4058-00051/00003**

**Facility DEC ID: 6405800051**



**Monitoring Description:**

The temperature of the afterburner will be monitored to determine that the average operating temperature is maintained at 1600 degrees F or greater. Temperature will be monitored continuously with a type "K" thermocouple and averaged for each 15 minute block and then averaged for each 3 hour block. Additionally, the unit must be operated according to the operation, maintenance and monitoring plan.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 1600 degrees Fahrenheit

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

The initial report is due 3/1/2007.

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



**STATE ONLY ENFORCEABLE CONDITIONS**

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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

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

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

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

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

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

**New York State Department of Environmental Conservation**

**Permit ID: 6-4058-00051/00003**

**Facility DEC ID: 6405800051**



law.

**STATE ONLY APPLICABLE REQUIREMENTS**

**The following conditions are state only enforceable.**

**Condition 14: Contaminant List**

**Effective between the dates of 05/26/2005 and Permit Expiration Date**

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

**Item 14.1:**

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

CAS No: 001746-01-6

Name: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

CAS No: 051207-31-9

Name: 2,3,7,8-TETRACHLORODIBENZOFURAN

CAS No: 007429-90-5

Name: ALUMINUM

CAS No: 0NY100-00-0

Name: HAP

CAS No: 007439-92-1

Name: LEAD

CAS No: 007439-97-6

Name: MERCURY

CAS No: 0NY075-00-0

Name: PARTICULATES

**Condition 15: Unavoidable noncompliance and violations**

**Effective between the dates of 05/26/2005 and Permit Expiration Date**

**Applicable State Requirement: 6NYCRR 201-1.4**

**Item 15.1:**

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



**New York State Department of Environmental Conservation**

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**Facility DEC ID: 6405800051**

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

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

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

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

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

**Condition 16: Emission Unit Definition**

**Effective between the dates of 05/26/2005 and Permit Expiration Date**

**Applicable State Requirement: 6NYCRR 201-5**

**Item 16.1(From Mod 1):**

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

Emission Unit: F-00001

**New York State Department of Environmental Conservation**

**Permit ID: 6-4058-00051/00003**

**Facility DEC ID: 6405800051**



**Emission Unit Description:**

PROCESSING OF SCRAP METAL IN A SECONDARY ALUMINUM SWEAT FURNACE. SCRAP METAL IS LOADED INTO THE FURNACE FROM AN OPEN TRAY WITH A MOTORIZED CHARGER IN 1500 LB (APPROX) BATCHES. THE FURNACE HAS TWO CHAMBERS, THE PRIMARY SWEATING CHAMBER AND THE HOLDING CHAMBER SEPARATED BY A PERFORATED FIRE BRICK WALL THAT PROVIDES ADDITIONAL MIXING AND BURN OF COMBUSTION GASES PRIOR TO PASSAGE THROUGH THE DIRECT FIRE AFTERBURNER. THE AFTERBURNER IS TANGENTIALLY FIRED AND RATED AT A MAXIMUM OPERATING TEMPERATURE OF 1800 DEGREES F, AND A MAXIMUM RETENTION TIME IN THE COMBUSTION CHAMBER OF 1.52 SECONDS UNDER WORST CASE CONDITIONS. MOLTEN RECOVERED ALUMINUM IS DRAWN OFF INTO 1000 LB VESSELS (SCOWS) FOR SALE AND FURTHER PROCESSING OFF SITE. FERROUS AND OTHER WASTE METALS ARE SEPARATED FOR WASTE HANDLING.

Building(s): M

**Condition 17: Air pollution prohibited**  
**Effective between the dates of 05/26/2005 and Permit Expiration Date**

**Applicable State Requirement: 6NYCRR 211.2**

**Item 17.1:**

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

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

**Condition 18: Emission Point Definition By Emission Unit**  
**Effective between the dates of 05/26/2005 and Permit Expiration Date**

**Applicable State Requirement: 6NYCRR 201-5**

**Item 18.1(From Mod 1):**

Air Pollution Control Permit Conditions



**New York State Department of Environmental Conservation**

**Permit ID: 6-4058-00051/00003**

**Facility DEC ID: 6405800051**

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

Emission Unit: F-00001

Emission Point: 00001

Height (ft.): 40

Diameter (in.): 24

**Condition 19: Process Definition By Emission Unit**  
**Effective between the dates of 05/26/2005 and Permit Expiration Date**

**Applicable State Requirement: 6NYCRR 201-5**

**Item 19.1(From Mod 1):**

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

Emission Unit: F-00001

Process: 001

Process Description:

SCRAP METAL IS PROCESSED IN A SECONDARY ALUMINUM SWEAT FURNACE. SCRAP METAL IS LOADED INTO THE FURNACE FROM AN OPEN TRAY WITH A MOTORIZED CHARGER IN 1500 LB (APPROX) BATCHES. FURNACE HAS TWO CHAMBERS, THE PRIMARY SWEATING CHAMBER AND THE HOLDING CHAMBER SEPARATED BY A PERFORATED FIREBRICK WALL THAT PROVIDES ADDITIONAL MIXING AND BURN OF COMBUSTION GASES PRIOR TO PASSAGE THROUGH THE DIRECT FIRE AFTERBURNER. AFTERBURNER IS TANGENTIALLY FIRED AND RATED AT A MAXIMUM OPERATING TEMP OF 1800 DEGREES F, AND MAX RETENTION TIME IN COMBUSTION CHAMBER OF 1.52 SECONDS UNDER WORST CASE CONDITIONS. MOLTEN RECOVERED ALUMINUM IS DRAWN OFF INTO 1000 LB VESSELS (SCOWS) FOR SALE AND FURTHER PROCESSING OFF SITE. FERROUS AND OTHER WASTE METALS ARE SEPARATED FOR WASTE HANDLING.

Emission Source/Control: AFTER - Control

Control Type: DIRECT FLAME AFTERBURNER

Emission Source/Control: 0FURN - Process

Design Capacity: 1,500 pounds per hour