



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

**IDENTIFICATION INFORMATION**

Permit Type: Air State Facility  
Permit ID: 3-3924-00074/00177  
Mod 0 Effective Date: 12/14/2009 Expiration Date: 06/16/2019  
Mod 1 Effective Date: 10/27/2011 Expiration Date: 06/16/2019  
Mod 2 Effective Date: 06/17/2014 Expiration Date: 06/16/2019

Permit Issued To: CHROMALLOY GAS TURBINE LLC  
330 BLAISDELL RD  
ORANGEBURG, NY 10962

Facility: CHROMALLOY NEW YORK  
330 BLAISDELL RD  
ORANGEBURG, NY 10962

Contact: LEONIE MILLER  
CHROMALLOY NEW YORK  
330 BLAISDELL RD  
ORANGEBURG, NY 10962  
(845) 359-4700

**Description:**

Chromalloy New York provides repair services for aircraft engine parts. Operations include coating, plating, mixing, drying, cleaning, welding, cutting, grinding, and heat treatment.

As identified in the permit, there are 9 emission units. These include plasma coating equipment, ovens, scrubbers, inspection, mixing hoods, evaporator, laser equipment, gas/pack coating, furnaces, and exhaust hoods.

The pollutants emitted from the facility include acetone, ammonia, carbon monoxide, hydrogen chloride, hydrogen fluoride, nitric acid, nitrogen oxides, various solid particulates, PM-10, sodium hydroxide, sulfuric acid, and various volatile organic compounds. Hazardous air pollutants (HAP) emitted include chromium, cobalt, ethyl benzene, ethyl glycol monoethyl ether, hydrogen chloride, hydrogen fluoride, manganese, methanol, nickel, toluene, and xylene.

The facility is subject to the requirements of 6NYCRR Part 212. The degree of air cleaning for emission of gases with an environmental rating of A, B, or C, and of solid particulates with an environmental rating of A, is specified in Table 2 of Part 212. The degree of air cleaning required for emissions of volatile organic compounds is specified in Table 3 of Part 212. Emissions of solid particulates, with a rating of B or C, are limited to 0.050 grains per cubic foot. Environmental ratings are based on guidance outlined in the Department's Air Guide 1 Policy. For this facility, nickel, chromium, and vanadium are assigned an environmental rating of A; ammonia is assigned an environmental rating of C; and all other pollutants are assigned an

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environmental rating of B.

Modification #1 of the permit is for the addition of six new emission points (157, 158, 159, 160, 161, and 162), changes to emission sources and emissions pertaining to nine emission points (81, 111, 116, 117, 122, 139, 143, 144, and 145), and the removal of four emission points (32B, 32C, 84B, and 121).

Modification #2 of the permit is for the addition of two new emission points (163 and 164), a change to emission point 161, and the relocation of emission point 75.

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:       GEORGE A SWEIKERT  
                                      NYSDEC  
                                      21 S PUTT CORNERS RD  
                                      NEW PALTZ, NY 12561-1696

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  
Facility Inspection by the Department  
Relationship of this Permit to Other Department Orders and  
Determinations  
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  
Permit modifications, suspensions or revocations by the Department  
Permit modifications, suspensions or revocations by the Department

#### **Facility Level**

Submission of application for permit modification or  
renewal-REGION 3 HEADQUARTERS



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

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

**Replaces Condition(s) 1**

**Item 1-1.1:**

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 1-1.2:**

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 1-1.3:**

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

**Replaced by Condition(s) 1-1**

**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)**

**Replaced by Condition(s) 1-2**



**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 1-2: Relationship of this Permit to Other Department Orders and Determinations**

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

**Replaces Condition(s) 2**

**Item 1-2.1:**

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 1-3: Applications for permit renewals, modifications and transfers**

**Applicable State Requirement: 6 NYCRR 621.11**

**Replaces Condition(s) 3**

**Item 1-3.1:**

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 1-3.2:**

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 1-3.3:**

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

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

**Applicable State Requirement: 6 NYCRR 621.11**

**Replaced by Condition(s) 1-3**

**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 transfer of ownership.

**Condition 5: Permit modifications, suspensions or revocations by the Department**  
**Applicable State Requirement: 6 NYCRR 621.13**

**Expired by Mod No: 1**

**Item 5.1:**

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.

**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 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.

**Condition 1-4: Permit modifications, suspensions or revocations by the Department**  
**Applicable State Requirement: 6 NYCRR 621.13**

**Item 1-4.1:**

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 6: Submission of application for permit modification or renewal-REGION 3 HEADQUARTERS**

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

**Item 6.1:**

Submission of applications for permit modification or renewal are to be submitted to:  
NYSDEC Regional Permit Administrator  
Region 3 Headquarters  
Division of Environmental Permits  
21 South Putt Corners Road  
New Paltz, NY 12561-1696  
(845) 256-3054



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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: CHROMALLOY GAS TURBINE LLC  
330 BLAISDELL RD  
ORANGEBURG, NY 10962

Facility: CHROMALLOY NEW YORK  
330 BLAISDELL RD  
ORANGEBURG, NY 10962

Authorized Activity By Standard Industrial Classification Code:  
7699 - REPAIR SERVICES, NEC

Mod 0 Permit Effective Date: 12/14/2009

Permit Expiration Date: 06/16/2019

Mod 1 Permit Effective Date: 10/27/2011

Permit Expiration Date: 06/16/2019

Mod 2 Permit Effective Date: 06/17/2014

Permit Expiration Date: 06/16/2019



**LIST OF CONDITIONS**

**FEDERALLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 1-1 6 NYCRR 211.1: Air pollution prohibited
- 1 6 NYCRR 212.4 (a): Emissions from new emission sources and/or modifications
- 2 6 NYCRR 212.4 (c): Compliance Demonstration
- 1-3 6 NYCRR 212.4 (c): Compliance Demonstration
- 4 6 NYCRR 212.4 (c): Compliance Demonstration
- 5 6 NYCRR 212.6 (a): Compliance Demonstration
- 1-2 6 NYCRR 212.9 (b): Compliance Demonstration
- 6 6 NYCRR 212.9 (b): Compliance Demonstration
- 1-4 40CFR 63, Subpart WWWW: Compliance Demonstration

**Emission Unit Level**

**EU=U-00001,Proc=APS**

- 7 6 NYCRR 212.9 (b): Compliance Demonstration
- 8 6 NYCRR 212.9 (b): Compliance Demonstration

**EU=U-00001,Proc=ASP**

- 9 6 NYCRR 212.9 (b): Compliance Demonstration
- 10 6 NYCRR 212.9 (b): Compliance Demonstration

**EU=U-00001,Proc=LPP**

- 11 6 NYCRR 212.9 (b): Compliance Demonstration
- 12 6 NYCRR 212.9 (b): Compliance Demonstration

**EU=U-00001,EP=00160,Proc=LPP,ES=16002**

- 1-5 6 NYCRR 212.9 (b): Compliance Demonstration

**EU=U-00003,EP=00047,Proc=ACL,ES=04702**

- 13 6 NYCRR 212.9 (b): Compliance Demonstration

**EU=U-00003,EP=00048,Proc=ACL,ES=04802**

- 14 6 NYCRR 212.9 (b): Compliance Demonstration

**EU=U-00003,EP=00050,Proc=ACL,ES=05002**

- 15 6 NYCRR 212.9 (b): Compliance Demonstration

**EU=U-00003,EP=00111,Proc=PLG,ES=11103**

- 16 6 NYCRR 212.9 (b): Compliance Demonstration

**EU=U-00005,EP=00146**

- 17 6 NYCRR 212.9 (b): Compliance Demonstration

**EU=U-00008,EP=00112**

- 18 6 NYCRR 212.9 (b): Compliance Demonstration

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**EU=U-00008,EP=00134**

19 6 NYCRR 212.9 (b): Compliance Demonstration

**EU=U-00008,EP=00150**

20 6 NYCRR 212.9 (b): Compliance Demonstration

**EU=U-00009,EP=00122**

21 6 NYCRR 212.9 (b): Compliance Demonstration

**EU=U-00009,EP=00147**

22 6 NYCRR 212.9 (b): Compliance Demonstration

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

24 ECL 19-0301: Contaminant List

2-1 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities

26 6 NYCRR Subpart 201-5: Emission Unit Definition

2-2 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits

2-3 6 NYCRR 201-5.3 (c): Compliance Demonstration

27 6 NYCRR 201-5.4: Compliance Demonstration

1-6 6 NYCRR 211.2: Visible Emissions Limited

**Emission Unit Level**

29 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit

30 6 NYCRR Subpart 201-5: Process Definition By Emission Unit



**FEDERALLY ENFORCEABLE CONDITIONS**

**\*\*\*\* Facility 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 - 6 NYCRR 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 - 6 NYCRR 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 - 6 NYCRR 200.7**

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



required to operate such device effectively.

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

If an existing emission source was subject to the permitting requirements of 6 NYCRR 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 - 6 NYCRR 201-1.5**

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

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

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

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

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

(4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the 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 - 6 NYCRR 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 - 6 NYCRR 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 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 201-3.3 (a)**

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

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

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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 6 NYCRR Subpart 202-1.

**Item K: Open Fires Prohibitions - 6 NYCRR 215.2**

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

**Item L: 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 M: 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 1-1: Air pollution prohibited**

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**Effective between the dates of 10/27/2011 and 06/16/2019**

**Applicable Federal Requirement:6 NYCRR 211.1**

**Item 1-1.1:**

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

**Condition 1: Emissions from new emission sources and/or modifications  
Effective between the dates of 12/14/2009 and 06/16/2019**

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

**Item 1.1:**

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 2: Compliance Demonstration  
Effective between the dates of 12/14/2009 and 06/16/2019**

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

**Item 2.1:**

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

Emission Unit: U-00009

Emission Point: 00114

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 2.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.050 grains per dscf

Reference Test Method: Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING



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## DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

### **Condition 1-3: Compliance Demonstration**

**Effective between the dates of 10/27/2011 and 06/16/2019**

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

**Replaces Condition(s) 3**

#### **Item 1-3.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00002                      Emission Point: 00034

Emission Unit: U-00002                      Emission Point: 00126

Emission Unit: U-00002                      Emission Point: 00130

Emission Unit: U-00002                      Emission Point: 00132

Emission Unit: U-00002                      Emission Point: 00148

Emission Unit: U-00002                      Emission Point: 00149

Emission Unit: U-00002                      Emission Point: 00157

Emission Unit: U-00002                      Emission Point: 00158

Emission Unit: U-00002                      Emission Point: 00161

Emission Unit: U-00002                      Emission Point: 00162

Regulated Contaminant(s):

CAS No: 0NY075-00-0      PARTICULATES

#### **Item 1-3.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.050 grains per dscf

Reference Test Method: Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

**New York State Department of Environmental Conservation**

**Permit ID: 3-3924-00074/00177**

**Facility DEC ID: 3392400074**



**DESCRIPTION**

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 4: Compliance Demonstration**  
**Effective between the dates of 12/14/2009 and 06/16/2019**

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

**Item 4.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00004                      Emission Point: 00117

Emission Unit: U-00004                      Emission Point: 00118

Emission Unit: U-00004                      Emission Point: 00136

Emission Unit: U-00004                      Emission Point: 00143

Emission Unit: U-00004                      Emission Point: 00144

Emission Unit: U-00004                      Emission Point: 00152

Regulated Contaminant(s):

CAS No: 0NY075-00-0      PARTICULATES

**Item 4.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.050 grains per dscf

Reference Test Method: Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

**DESCRIPTION**

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 5: Compliance Demonstration**  
**Effective between the dates of 12/14/2009 and 06/16/2019**

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

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**Item 5.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 5.2:**

Compliance Demonstration shall include the following monitoring:

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

**Monitoring Description:**

No person will cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water.

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The opacity limit applies to any emission point, identified in this permit, from which particulate matter is discharged.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

### Condition 1-2: Compliance Demonstration

**Effective between the dates of 10/27/2011 and 06/16/2019**

**Applicable Federal Requirement: 6 NYCRR 212.9 (b)**

**Item 1-2.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001

Process: LPP

Emission Point: 00081

Emission Source: 08102

Emission Unit: U-00001

Process: LPP

Emission Point: 00083

Emission Source: 08302

Regulated Contaminant(s):

CAS No: 007440-02-0

NICKEL METAL AND INSOLUBLE

## COMPOUNDS

CAS No: 0NY075-00-0

## PARTICULATES

CAS No: 007440-47-3

## CHROMIUM

**Item 1-2.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

A reduction in particulate emissions of at least 99 percent must be achieved by the dust collectors associated with the low pressure plasma spray process.

Monitoring of differential pressure across the dust collector will be used to demonstrate compliance with this emission reduction limit. The differential pressure shall be read and recorded at least weekly. The pressure is limited to a maximum of 6.0 inches of water. If the pressure reaches this maximum, then the filters in the dust collector must be replaced. A record shall be kept of when filters are replaced.

Parameter Monitored: PRESSURE CHANGE

Upper Permit Limit: 6.0 inches of water

Monitoring Frequency: WEEKLY

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 6: Compliance Demonstration**  
**Effective between the dates of 12/14/2009 and 06/16/2019**

**Applicable Federal Requirement: 6 NYCRR 212.9 (b)**

**Item 6.1:**

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

Emission Unit: U-00007  
Process: LSR

Emission Point: 00091  
Emission Source: 09102

Emission Unit: U-00007  
Process: LSR

Emission Point: 00123  
Emission Source: 12302

Emission Unit: U-00007  
Process: LSR

Emission Point: 00123  
Emission Source: 12303

Regulated Contaminant(s):  
CAS No: 007440-02-0 NICKEL METAL AND INSOLUBLE  
COMPOUNDS

**Item 6.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

A reduction in nickel emissions of at least 99 percent

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must be achieved by each of the emission control devices in this emission unit.

Emission testing and reporting will be required to ascertain compliance with this limit, if directed by the Department.

Parameter Monitored: PARTICULATES

Lower Permit Limit: 99 percent reduction by weight

Reference Test Method: Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 1-4: Compliance Demonstration**

**Effective between the dates of 10/27/2011 and 06/16/2019**

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

**Item 1-4.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 1-4.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For all thermal operations, a capture system must be operated which collects particulate emissions from the thermal spraying process, and transports the emissions to a filtering device. Emission capture and control devices must be operated according to the manufacturer's specifications and operating instructions. These instructions shall be kept at the facility at all times in a location that is easily accessible to facility personnel.

Compliance shall be documented in an annual certification of compliance report for each calendar year. The annual report must include a statement that the control devices have been operated and maintained according to manufacturer's specifications and instructions. The annual report must be submitted only if deviations from this permit condition have occurred during the year. Then such report shall include an explanation of the deviation and the corrective action taken, and the report must be postmarked or delivered to the delegated authority no later than January 31 of the year immediately following the reporting period.

All reports and records must be kept at the facility for a

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minimum of 5 years, and must be made available upon request by regulatory personnel.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

**Condition 7: Compliance Demonstration**  
**Effective between the dates of 12/14/2009 and 06/16/2019**

**Applicable Federal Requirement: 6 NYCRR 212.9 (b)**

**Item 7.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Process: APS

Regulated Contaminant(s):

CAS No: 007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS
CAS No: 007440-47-3	CHROMIUM
CAS No: 00000-00-0	PARTICULATES

**Item 7.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

A reduction in particulate emissions of at least 99 percent must be achieved by each of the HEPA filters associated with the air plasma spray process.

Monitoring of differential pressure across the HEPA filters will be used to demonstrate compliance with this emission reduction limit. The differential pressure shall be read and recorded at least weekly. The pressure is limited to a maximum of 4.0 inches of water. If the pressure reaches this maximum, then the HEPA filters must be replaced. A record shall be kept of when filters are replaced.

Parameter Monitored: PRESSURE CHANGE

Upper Permit Limit: 4.0 inches of water

Monitoring Frequency: WEEKLY

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -

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SEE MONITORING DESCRIPTION  
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 8: Compliance Demonstration**  
**Effective between the dates of 12/14/2009 and 06/16/2019**

**Applicable Federal Requirement: 6 NYCRR 212.9 (b)**

**Item 8.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Process: APS

Regulated Contaminant(s):

CAS No: 007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS
CAS No: 007440-47-3	CHROMIUM
CAS No: 00000-00-0	PARTICULATES

**Item 8.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

A reduction in particulate emissions of at least 99 percent must be achieved by each of the dust collectors associated with the air plasma spray process.

Monitoring of differential pressure across each dust collector will be used to demonstrate compliance with this emission reduction limit. The differential pressure shall be read and recorded at least weekly. The pressure is limited to a maximum of 6.0 inches of water. If the pressure reaches this maximum, then the filters in the dust collector must be replaced. A record shall be kept of when filters are replaced.

Parameter Monitored: PRESSURE CHANGE

Upper Permit Limit: 6.0 inches of water

Monitoring Frequency: WEEKLY

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 9: Compliance Demonstration**  
**Effective between the dates of 12/14/2009 and 06/16/2019**

**Applicable Federal Requirement: 6 NYCRR 212.9 (b)**

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**Item 9.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Process: ASP

Regulated Contaminant(s):

CAS No: 007440-47-3 CHROMIUM

CAS No: 0NY075-00-0 PARTICULATES

CAS No: 007440-02-0 NICKEL METAL AND INSOLUBLE

COMPOUNDS

**Item 9.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

A reduction in particulate emissions of at least 99 percent must be achieved by each of the HEPA filters associated with the air spray process.

Monitoring of differential pressure across the HEPA filters will be used to demonstrate compliance with this emission reduction limit. The differential pressure shall be read and recorded at least weekly. The pressure is limited to 4.0 inches of water. If the pressure reaches this maximum, then the HEPA filters must be replaced. A record shall be kept of when filters are replaced.

Parameter Monitored: PRESSURE CHANGE

Upper Permit Limit: 4.0 inches of water

Monitoring Frequency: WEEKLY

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 10: Compliance Demonstration**

**Effective between the dates of 12/14/2009 and 06/16/2019**

**Applicable Federal Requirement: 6 NYCRR 212.9 (b)**

**Item 10.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Process: ASP

Regulated Contaminant(s):

CAS No: 007440-47-3 CHROMIUM

CAS No: 0NY075-00-0 PARTICULATES

CAS No: 007440-02-0 NICKEL METAL AND INSOLUBLE



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**COMPOUNDS**

**Item 10.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

A reduction in particulate emissions of at least 99 percent must be achieved by each of the dust collectors associated with the air spray process.

Monitoring of differential pressure across the dust collectors will be used to demonstrate compliance with this reduction limit. The differential pressure shall be read and recorded at least weekly. The pressure is limited to a maximum of 6.0 inches of water. If the pressure reaches this maximum, then the filters must be replaced. A record shall be kept of when filters are replaced.

Parameter Monitored: PRESSURE CHANGE

Upper Permit Limit: 6.0 inches of water

Monitoring Frequency: WEEKLY

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 11: Compliance Demonstration**

**Effective between the dates of 12/14/2009 and 06/16/2019**

**Applicable Federal Requirement: 6 NYCRR 212.9 (b)**

**Item 11.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Process: LPP

Regulated Contaminant(s):

CAS No: 007440-47-3 CHROMIUM

CAS No: 007440-02-0 NICKEL METAL AND INSOLUBLE

**COMPOUNDS**

**Item 11.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

A reduction in nickel and chromium emissions of at least 95 percent must be achieved by the cartridge filters



associated with the low pressure plasma spray process.

Monitoring of hours of operation and replacement of filters will be used to demonstrate compliance with this reduction limit. A record shall be kept of the hours of operation of each low pressure plasma spray vacuum system.

At or before the hours of operation of any vacuum system reach 1100 hours, the cartridge filters connected to that system must be replaced. A record shall be kept of when filters are replaced.

Parameter Monitored: OPERATING HOURS

Upper Permit Limit: 1100 hours

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 12: Compliance Demonstration**  
**Effective between the dates of 12/14/2009 and 06/16/2019**

**Applicable Federal Requirement: 6 NYCRR 212.9 (b)**

**Item 12.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Process: LPP

Regulated Contaminant(s):

CAS No: 007440-47-3 CHROMIUM

CAS No: 007440-02-0 NICKEL METAL AND INSOLUBLE

COMPOUNDS

**Item 12.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A reduction in nickel and chromium emissions of at least 99 percent must be achieved by each of the oil baths and demisters used as emission control.

Monitoring of the vacuum system associated with each low pressure plasma spray emission point will be used to demonstrate compliance with this reduction limit. The vacuum systems must be inspected and maintained in accordance with written plant operating procedures. This includes maintaining oil bath levels and demisters. A copy of the procedures must be kept on site and made

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available to Department representatives upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 1-5: Compliance Demonstration**  
**Effective between the dates of 10/27/2011 and 06/16/2019**

**Applicable Federal Requirement:6 NYCRR 212.9 (b)**

**Item 1-5.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Emission Point: 00160

Process: LPP

Emission Source: 16002

Regulated Contaminant(s):

CAS No: 007440-02-0

NICKEL METAL AND INSOLUBLE

COMPOUNDS

CAS No: 007440-47-3

CHROMIUM

**Item 1-5.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

A reduction in nickel and chromium emissions of at least 98 percent must be achieved by the polyester felt filters associated with Low Pressure Plasma Spray #14 vacuum system.

Monitoring of hours of operation and replacement of filters will be used to demonstrate compliance with this reduction limit. At or before the hours of operation reach 1100 hours, the filters must be replaced. A record shall be kept of the hours of operation and of when the filters are replaced.

Parameter Monitored: OPERATING HOURS

Upper Permit Limit: 1100 hours

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 13: Compliance Demonstration**  
**Effective between the dates of 12/14/2009 and 06/16/2019**

**Applicable Federal Requirement:6 NYCRR 212.9 (b)**

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**Item 13.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Emission Point: 00047

Process: ACL

Emission Source: 04702

Regulated Contaminant(s):

CAS No: 007697-37-2      NITRIC ACID

**Item 13.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

A reduction in nitric acid emissions of at least 90 percent must be achieved by the scrubber.

Monitoring of differential pressure across the scrubber will be used to demonstrate compliance with this reduction limit. The differential pressure shall be read and recorded at least weekly. The pressure is limited to a maximum of 2.5 inches of water. If the pressure reaches this maximum, then the packing material in the scrubber must be cleaned. A record shall be kept of when such cleaning occurs.

Parameter Monitored: PRESSURE CHANGE

Upper Permit Limit: 2.5 inches of water

Monitoring Frequency: WEEKLY

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 14: Compliance Demonstration**

**Effective between the dates of 12/14/2009 and 06/16/2019**

**Applicable Federal Requirement: 6 NYCRR 212.9 (b)**

**Item 14.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Emission Point: 00048

Process: ACL

Emission Source: 04802

Regulated Contaminant(s):

CAS No: 007647-01-0      HYDROGEN CHLORIDE

**Item 14.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

A reduction in hydrochloric acid emissions of at least 90 percent must be achieved by the scrubber.

Monitoring of differential pressure across the scrubber will be used to demonstrate compliance with this reduction limit. The differential pressure shall be read and recorded at least weekly. The pressure is limited to a maximum of 2.5 inches of water. If the pressure reaches this maximum, then the packing material in the scrubber must be cleaned. A record shall be kept of when such cleaning occurs.

Parameter Monitored: PRESSURE CHANGE

Upper Permit Limit: 2.5 inches of water

Monitoring Frequency: WEEKLY

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 15: Compliance Demonstration**  
**Effective between the dates of 12/14/2009 and 06/16/2019**

**Applicable Federal Requirement: 6 NYCRR 212.9 (b)**

**Item 15.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Emission Point: 00050

Process: ACL

Emission Source: 05002

Regulated Contaminant(s):

CAS No: 007664-39-3

HYDROGEN FLUORIDE

CAS No: 007664-41-7

AMMONIA

CAS No: 000000-00-0

PARTICULATES

**Item 15.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

A reduction in emissions of at least 99 percent must be achieved by the scrubber for each of the contaminants listed above.

Monitoring of differential pressure across the scrubber will be used to demonstrate compliance with this reduction limit. The differential pressure shall be read and recorded at least weekly. The pressure is limited to a

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maximum of 5.0 inches of water. If the pressure reaches this maximum, then the packing material in the scrubber must be cleaned. A record shall be kept of when such cleaning occurs.

Parameter Monitored: PRESSURE CHANGE

Upper Permit Limit: 5.0 inches of water

Monitoring Frequency: WEEKLY

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 16: Compliance Demonstration**

**Effective between the dates of 12/14/2009 and 06/16/2019**

**Applicable Federal Requirement: 6 NYCRR 212.9 (b)**

**Item 16.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003

Emission Point: 00111

Process: PLG

Emission Source: 11103

Regulated Contaminant(s):

CAS No: 001310-73-2

SODIUM HYDROXIDE

CAS No: 007647-01-0

HYDROGEN CHLORIDE

**Item 16.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

A reduction in emissions of at least 90 percent must be achieved by the scrubber for each of the contaminants listed above.

Monitoring of differential pressure across the scrubber will be used to demonstrate compliance with this reduction limit. The differential pressure shall be read and recorded at least weekly. The pressure is limited to a maximum of 8.0 inches of water. If the pressure reaches this maximum, then the packing material in the scrubber must be cleaned. A record shall be kept of when such cleaning occurs.

Parameter Monitored: PRESSURE CHANGE

Upper Permit Limit: 8.0 inches of water

Monitoring Frequency: WEEKLY

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

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**Condition 17: Compliance Demonstration**  
**Effective between the dates of 12/14/2009 and 06/16/2019**

**Applicable Federal Requirement:6 NYCRR 212.9 (b)**

**Item 17.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00005

Emission Point: 00146

Regulated Contaminant(s):

CAS No: 007440-02-0

NICKEL METAL AND INSOLUBLE

COMPOUNDS

**Item 17.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

A reduction in nickel emissions of at least 99 percent must be achieved. In order to achieve this reduction, emissions from the process must be sent to an emission control device. Emission testing and reporting will be conducted by the facility, if directed by the Department.

Parameter Monitored: PARTICULATES

Lower Permit Limit: 99 percent reduction by weight

Reference Test Method: Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 18: Compliance Demonstration**  
**Effective between the dates of 12/14/2009 and 06/16/2019**

**Applicable Federal Requirement:6 NYCRR 212.9 (b)**

**Item 18.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00008

Emission Point: 00112

Regulated Contaminant(s):

CAS No: 007664-39-3

HYDROGEN FLUORIDE

**Item 18.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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A reduction in hydrogen fluoride emissions of at least 70 percent must be achieved. In order to achieve this reduction, emissions from the process must be sent to an emission control device. Emission testing and reporting will be required to ascertain compliance with this limit, if directed by the Department.

Parameter Monitored: HYDROGEN FLUORIDE

Lower Permit Limit: 70 percent reduction by weight

Reference Test Method: Method 26 or 26A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

**DESCRIPTION**

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 19: Compliance Demonstration**

**Effective between the dates of 12/14/2009 and 06/16/2019**

**Applicable Federal Requirement:6 NYCRR 212.9 (b)**

**Item 19.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00008

Emission Point: 00134

Regulated Contaminant(s):

CAS No: 007664-39-3

HYDROGEN FLUORIDE

**Item 19.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

A reduction in hydrogen fluoride emissions of at least 70 percent must be achieved. In order to achieve this reduction, emissions from the process must be sent to an emission control device. Emission testing and reporting will be required to ascertain compliance with this limit, if directed by the Department.

Parameter Monitored: HYDROGEN FLUORIDE

Lower Permit Limit: 70 percent reduction by weight

Reference Test Method: Method 26 or 26A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

**DESCRIPTION**

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 20: Compliance Demonstration**

**Effective between the dates of 12/14/2009 and 06/16/2019**

**Applicable Federal Requirement:6 NYCRR 212.9 (b)**



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**Item 20.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00008

Emission Point: 00150

Regulated Contaminant(s):

CAS No: 007440-02-0

NICKEL METAL AND INSOLUBLE

COMPOUNDS

CAS No: 007440-62-2

VANADIUM

CAS No: 007440-47-3

CHROMIUM

**Item 20.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

A reduction in emissions of at least 95 percent must be achieved for each of the contaminants listed above. To achieve this reduction, emissions from the process must be sent to an emission control device. Emission testing and reporting will be required to ascertain compliance with this limit, if directed by the Department.

Parameter Monitored: PARTICULATES

Lower Permit Limit: 95 percent reduction by weight

Reference Test Method: Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 21: Compliance Demonstration**

**Effective between the dates of 12/14/2009 and 06/16/2019**

**Applicable Federal Requirement: 6 NYCRR 212.9 (b)**

**Item 21.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00009

Emission Point: 00122

Regulated Contaminant(s):

CAS No: 007440-02-0

NICKEL METAL AND INSOLUBLE

COMPOUNDS

**Item 21.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

A reduction in nickel emissions of at least 99 percent

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must be achieved. In order to achieve this reduction, emissions from the process must be sent to an emission control device. Emission testing and reporting will be required to ascertain compliance with this limit, if directed by the Department.

Parameter Monitored: PARTICULATES

Lower Permit Limit: 99 percent reduction by weight

Reference Test Method: Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 22: Compliance Demonstration**

**Effective between the dates of 12/14/2009 and 06/16/2019**

**Applicable Federal Requirement: 6 NYCRR 212.9 (b)**

**Item 22.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00009

Emission Point: 00147

Regulated Contaminant(s):

CAS No: 007440-47-3

CHROMIUM

CAS No: 007440-02-0

NICKEL METAL AND INSOLUBLE

COMPOUNDS

**Item 22.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

A reduction in emissions of at least 99 percent must be achieved for each of the contaminants listed above. In order to achieve this reduction, emissions from the process must be sent to an emission control device. Emission testing and reporting will be required to ascertain compliance with this limit, if required by the Department.

Parameter Monitored: PARTICULATES

Lower Permit Limit: 99 percent reduction by weight

Reference Test Method: Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION



**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 - 6 NYCRR 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 law.

**STATE ONLY APPLICABLE REQUIREMENTS**

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

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**Condition 24: Contaminant List**

**Effective between the dates of 12/14/2009 and 06/16/2019**

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

**Item 24.1:**

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

CAS No: 001310-73-2

Name: SODIUM HYDROXIDE

CAS No: 007440-02-0

Name: NICKEL METAL AND INSOLUBLE COMPOUNDS

CAS No: 007440-47-3

Name: CHROMIUM

CAS No: 007440-62-2

Name: VANADIUM

CAS No: 007647-01-0

Name: HYDROGEN CHLORIDE

CAS No: 007664-39-3

Name: HYDROGEN FLUORIDE

CAS No: 007664-41-7

Name: AMMONIA

CAS No: 007697-37-2

Name: NITRIC ACID

CAS No: 0NY075-00-0

Name: PARTICULATES

**Condition 2-1: Malfunctions and start-up/shutdown activities**

**Effective between the dates of 06/17/2014 and 06/16/2019**

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

**Replaces Condition(s) 25**

**Item 2-1.1:**

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment malfunctions, maintenance, or start-up/shutdown activities when they can be expected to result in

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an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source. Such reports shall state whether any violations occurred and, if so, whether they were unavoidable, include the time, frequency and duration of the maintenance and/or start-up/shutdown activities, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous stack monitoring and quarterly reporting requirements need not submit additional reports for equipment maintenance or start-up/shutdown activities for the facility to the department.

(c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates.

(d) The department may also require the owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

### Condition 26: Emission Unit Definition

**Effective between the dates of 12/14/2009 and 06/16/2019**

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

**Item 26.1(From Mod 2):**

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

Emission Unit: U-00002

Emission Unit Description:

## Ovens

Building(s): Main

**Item 26.2(From Mod 2):**

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

Emission Unit: U-00006

Emission Unit Description:

Evaporator

Building(s): Main

**Item 26.3(From Mod 2):**

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

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Emission Unit: U-00009  
Emission Unit Description:  
Exhaust Hoods

Building(s): Main

**Item 26.4(From Mod 1):**

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

Emission Unit: U-00001  
Emission Unit Description:  
Plasma Coating Equipment

Building(s): Main

**Item 26.5(From Mod 1):**

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

Emission Unit: U-00003  
Emission Unit Description:  
Scrubbers

Building(s): Main

**Item 26.6(From Mod 1):**

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

Emission Unit: U-00004  
Emission Unit Description:  
Inspection

Building(s): Main

**Item 26.7(From Mod 0):**

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

Emission Unit: U-00005  
Emission Unit Description:  
Mixing Hoods

Building(s): Main

**Item 26.8(From Mod 0):**

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

Emission Unit: U-00007  
Emission Unit Description:  
Laser Equipment

Building(s): Main

**Item 26.9(From Mod 1):**

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

Emission Unit: U-00008  
Emission Unit Description:  
Gas/Pack Coating Furnaces

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Building(s): Main

**Condition 2-2: Renewal deadlines for state facility permits**  
**Effective between the dates of 06/17/2014 and 06/16/2019**

**Applicable State Requirement:6 NYCRR 201-5.2 (c)**

**Item 2-2.1:**

The owner or operator of a facility having an issued state facility 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.

**Condition 2-3: Compliance Demonstration**  
**Effective between the dates of 06/17/2014 and 06/16/2019**

**Applicable State Requirement:6 NYCRR 201-5.3 (c)**

**Item 2-3.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 2-3.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any reports or submissions required by this permit shall be submitted to the Regional Air Pollution Control Engineer (RAPCE) at the following address:

Division of Air Resources  
NYS Dept. of Environmental Conservation  
Region 3  
21 South Putt Corners Rd.  
New Paltz, NY 12561

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 27: Compliance Demonstration**  
**Effective between the dates of 12/14/2009 and 06/16/2019**

**Applicable State Requirement:6 NYCRR 201-5.4**

**Item 27.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 27.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permit modifications and physical or operational changes





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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.

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

**Condition 29: Emission Point Definition By Emission Unit**  
**Effective between the dates of 12/14/2009 and 06/16/2019**

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

### Item 29.1(From Mod 2):

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

Emission Unit: U-00002

Emission Point: 00034

Height (ft.): 22

Diameter (in.): 6

NYTMN (km.): 4543.

NYTME (km.): 585.8

Building: Main

Emission Point: 00126

Height (ft.): 27

Diameter (in.): 5

NYTMN (km.): 4544.27

NYTME (km.): 588.425

Building: Main

Emission Point: 00130

Height (ft.): 30

Diameter (in.): 6

NYTMN (km.): 4543.166

NYTME (km.): 585.887

Building: Main

Emission Point: 00132

Height (ft.): 30

Diameter (in.): 6

NYTMN (km.): 4543.166

NYTME (km.): 585.887

Building: Main

Emission Point: 00148

Height (ft.): 36

Diameter (in.): 6

NYTMN (km.): 4543.166

NYTME (km.): 585.887

Building: Main

Emission Point: 00149

Height (ft.): 30

Length (in.): 8

Width (in.): 8

NYTMN (km.): 4543.166

NYTME (km.): 585.887

Building: Main

Emission Point: 00157

Height (ft.): 36

Diameter (in.): 6

NYTMN (km.): 4543.166

NYTME (km.): 585.887

Building: Main

Emission Point: 00158

Height (ft.): 36

Diameter (in.): 6

NYTMN (km.): 4543.166

NYTME (km.): 585.887

Building: Main

Emission Point: 00161

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Height (ft.): 29 NYTMN (km.): 4543.	Diameter (in.): 6 NYTME (km.): 585.8	Building: Main
Emission Point: 00162 Height (ft.): 31 NYTMN (km.): 4543.	Diameter (in.): 4 NYTME (km.): 585.8	Building: Main
Emission Point: 00164 Height (ft.): 30 NYTMN (km.): 4543.	Diameter (in.): 6 NYTME (km.): 585.8	Building: Main

## Item 29.2(From Mod 2):

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

Emission Unit: U-00006		
Emission Point: 00075 Height (ft.): 34 NYTMN (km.): 4543.	Diameter (in.): 5 NYTME (km.): 585.8	Building: Main
Emission Point: 00142 Height (ft.): 29 NYTMN (km.): 4543.166	Diameter (in.): 5 NYTME (km.): 585.887	Building: Main

## Item 29.3(From Mod 2):

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

Emission Unit: U-00009		
Emission Point: 00163 Height (ft.): 30 NYTMN (km.): 4543.	Diameter (in.): 14 NYTME (km.): 585.8	Building: Main

## Item 29.4(From Mod 0):

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

Emission Unit: U-00001		
Emission Point: 00007 Height (ft.): 32 NYTMN (km.): 4543.	Diameter (in.): 36 NYTME (km.): 585.8	Building: Main
Emission Point: 00030 Height (ft.): 30 NYTMN (km.): 4543.	Length (in.): 20 NYTME (km.): 585.8	Width (in.): 37 Building: Main
Emission Point: 00052 Height (ft.): 30 NYTMN (km.): 4543.	Length (in.): 20 NYTME (km.): 585.8	Width (in.): 37 Building: Main
Emission Point: 00053 Height (ft.): 30	Length (in.): 20	Width (in.): 37

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NYTMN (km.): 4543.	NYTME (km.): 585.5	Building: Main
Emission Point: 00061		
Height (ft.): 30	Length (in.): 20	Width (in.): 37
NYTMN (km.): 4543.	NYTME (km.): 585.5	Building: Main
Emission Point: 00064		
Height (ft.): 31	Diameter (in.): 24	
NYTMN (km.): 4543.	NYTME (km.): 584.8	Building: Main
Emission Point: 00065		
Height (ft.): 31	Diameter (in.): 24	
NYTMN (km.): 4543.	NYTME (km.): 585.8	Building: Main
Emission Point: 00081		
Height (ft.): 32	Diameter (in.): 10	
NYTMN (km.): 4543.	NYTME (km.): 585.8	Building: Main
Emission Point: 00083		
Height (ft.): 32	Diameter (in.): 8	
NYTMN (km.): 4543.	NYTME (km.): 585.8	Building: Main
Emission Point: 00125		
Height (ft.): 32	Length (in.): 18	Width (in.): 16
NYTMN (km.): 4544.285	NYTME (km.): 588.411	Building: Main
Emission Point: 00154		
Height (ft.): 33	Diameter (in.): 4	
NYTMN (km.): 4543.166	NYTME (km.): 585.887	Building: Main
Emission Point: 00155		
Height (ft.): 29	Length (in.): 48	Width (in.): 48
NYTMN (km.): 4543.166	NYTME (km.): 585.887	Building: Main
Emission Point: 00156		
Height (ft.): 29	Length (in.): 48	Width (in.): 48
NYTMN (km.): 4543.166	NYTME (km.): 585.887	Building: Main
Emission Point: 00160		
Height (ft.): 31	Diameter (in.): 3	
NYTMN (km.): 4543.	NYTME (km.): 585.8	Building: Main
Emission Point: 0030A		
Height (ft.): 30	Length (in.): 20	Width (in.): 37
NYTMN (km.): 4543.	NYTME (km.): 585.8	Building: Main
Emission Point: 0083A		
Height (ft.): 32	Diameter (in.): 4	
NYTMN (km.): 4543.	NYTME (km.): 585.8	Building: Main
Emission Point: 0083B		
Height (ft.): 30	Diameter (in.): 4	

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NYTMN (km.): 4543.166    NYTME (km.): 585.887    Building: Main

Emission Point: 0085A  
Height (ft.): 32    Diameter (in.): 4  
NYTMN (km.): 4543.    NYTME (km.): 585.8    Building: Main

Emission Point: 0086A  
Height (ft.): 32    Diameter (in.): 4  
NYTMN (km.): 4543.    NYTME (km.): 585.8    Building: Main

Emission Point: 0086B  
Height (ft.): 32    Diameter (in.): 4  
NYTMN (km.): 4543.    NYTME (km.): 585.8    Building: Main

## Item 29.5(From Mod 1):

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

Emission Unit: U-00002

Emission Point: 00109  
Height (ft.): 30    Diameter (in.): 20  
NYTMN (km.): 4543.    NYTME (km.): 585.8    Building: Main

Emission Point: 00116  
Height (ft.): 35    Diameter (in.): 40  
NYTMN (km.): 4543.166    NYTME (km.): 585.887    Building: Main

Emission Point: 00139  
Height (ft.): 25    Diameter (in.): 4  
NYTMN (km.): 4543.166    NYTME (km.): 585.887    Building: Main

## Item 29.6(From Mod 0):

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

Emission Unit: U-00003

Emission Point: 00047  
Height (ft.): 30    Diameter (in.): 24  
NYTMN (km.): 4543.166    NYTME (km.): 585.887    Building: Main

Emission Point: 00048  
Height (ft.): 30    Diameter (in.): 46  
NYTMN (km.): 4543.166    NYTME (km.): 585.887    Building: Main

Emission Point: 00050  
Height (ft.): 30    Diameter (in.): 4  
NYTMN (km.): 4543.    NYTME (km.): 585.8    Building: Main

Emission Point: 00111  
Height (ft.): 27    Diameter (in.): 30  
NYTMN (km.): 4543.166    NYTME (km.): 585.887    Building: Main

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## Item 29.7(From Mod 1):

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

Emission Unit: U-00004

Emission Point: 00117

Height (ft.): 32

Diameter (in.): 12

NYTMN (km.): 4544.313

NYTME (km.): 588.312

Building: Main

Emission Point: 00118

Height (ft.): 31

Diameter (in.): 24

NYTMN (km.): 4544.318

NYTME (km.): 588.367

Building: Main

Emission Point: 00127

Height (ft.): 36

Length (in.): 18

Width (in.): 12

NYTMN (km.): 4544.248

NYTME (km.): 588.282

Building: Main

Emission Point: 00136

Height (ft.): 34

Diameter (in.): 16

NYTMN (km.): 4543.166

NYTME (km.): 585.887

Building: Main

Emission Point: 00143

Height (ft.): 29

Diameter (in.): 12

NYTMN (km.): 4543.166

NYTME (km.): 585.887

Building: Main

Emission Point: 00144

Height (ft.): 29

Length (in.): 24

Width (in.): 24

NYTMN (km.): 4543.166

NYTME (km.): 585.887

Building: Main

Emission Point: 00151

Height (ft.): 26

Length (in.): 10

Width (in.): 12

NYTMN (km.): 4540.166

NYTME (km.): 585.887

Building: Main

Emission Point: 00152

Height (ft.): 32

Length (in.): 6

Width (in.): 12

NYTMN (km.): 4543.166

NYTME (km.): 585.887

Building: Main

Emission Point: 00153

Height (ft.): 28

Diameter (in.): 6

NYTMN (km.): 4543.166

NYTME (km.): 585.887

Building: Main

## Item 29.8(From Mod 0):

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

Emission Unit: U-00005

Emission Point: 00068

Height (ft.): 31

Diameter (in.): 6

NYTMN (km.): 4543.166

NYTME (km.): 585.887

Building: Main

Emission Point: 00088

Height (ft.): 38

Diameter (in.): 10

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NYTMN (km.): 4544.292    NYTME (km.): 588.413    Building: Main

Emission Point: 00131  
Height (ft.): 27    Diameter (in.): 4  
NYTMN (km.): 4543.166    NYTME (km.): 585.887    Building: Main

Emission Point: 00135  
Height (ft.): 27    Diameter (in.): 4  
NYTMN (km.): 4543.166    NYTME (km.): 585.887    Building: Main

Emission Point: 00146  
Height (ft.): 30    Length (in.): 36    Width (in.): 36  
NYTMN (km.): 4543.166    NYTME (km.): 585.887    Building: Main

## Item 29.9(From Mod 0):

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

Emission Unit: U-00007

Emission Point: 00091  
Height (ft.): 28    Length (in.): 24    Width (in.): 18  
NYTMN (km.): 4543.166    NYTME (km.): 585.887    Building: Main

Emission Point: 00123  
Height (ft.): 29    Length (in.): 48    Width (in.): 24  
NYTMN (km.): 4543.166    NYTME (km.): 585.887    Building: Main

## Item 29.10(From Mod 0):

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

Emission Unit: U-00008

Emission Point: 00112  
Height (ft.): 37    Diameter (in.): 6  
NYTMN (km.): 4542.9    NYTME (km.): 586.1    Building: Main

Emission Point: 00134  
Height (ft.): 28    Diameter (in.): 6  
NYTMN (km.): 4543.166    NYTME (km.): 585.887    Building: Main

Emission Point: 00150  
Height (ft.): 34    Diameter (in.): 6  
NYTMN (km.): 4543.166    NYTME (km.): 585.887    Building: Main

Emission Point: 00159  
Height (ft.): 31    Diameter (in.): 6  
NYTMN (km.): 4543.    NYTME (km.): 585.8    Building: Main

## Item 29.11(From Mod 0):

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

Emission Unit: U-00009

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Emission Point: 00114  
Height (ft.): 32 Length (in.): 16 Width (in.): 14  
NYTMN (km.): 4544.288 NYTME (km.): 585.275 Building: Main

Emission Point: 00122  
Height (ft.): 29 Diameter (in.): 8  
NYTMN (km.): 4544.314 NYTME (km.): 588.305 Building: Main

Emission Point: 00147  
Height (ft.): 19 Length (in.): 48 Width (in.): 48  
NYTMN (km.): 4543.166 NYTME (km.): 585.887 Building: Main

Emission Point: 0133A  
Height (ft.): 34 Diameter (in.): 30  
NYTMN (km.): 4543.166 NYTME (km.): 585.887 Building: Main

Emission Point: 0133B  
Height (ft.): 34 Diameter (in.): 30  
NYTMN (km.): 4543.166 NYTME (km.): 585.887 Building: Main

Emission Point: 0133C  
Height (ft.): 34 Diameter (in.): 30  
NYTMN (km.): 4543.166 NYTME (km.): 585.887 Building: Main

**Condition 30: Process Definition By Emission Unit**  
**Effective between the dates of 12/14/2009 and 06/16/2019**

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

**Item 30.1(From Mod 2):**

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

Emission Unit: U-00002  
Process: CUO  
Process Description:  
After a protective coating is applied to parts and then  
dried, the parts are placed into an oven for curing.

Emission Source/Control: 16101 - Process

**Item 30.2(From Mod 2):**

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

Emission Unit: U-00002  
Process: DRO  
Process Description:  
Portions of engine parts are painted or masked.  
Following application, the painted or masked parts are  
dried in an oven.

Emission Source/Control: 10901 - Process

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Emission Source/Control: 11602 - Process

Emission Source/Control: 16401 - Process

**Item 30.3(From Mod 2):**

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

Emission Unit: U-00006

Process: EVP

Process Description:

Spent machining coolants are heated to boiling point, and vapors are exhausted to atmosphere.

Emission Source/Control: 07501 - Process

Emission Source/Control: 14201 - Process

**Item 30.4(From Mod 2):**

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

Emission Unit: U-00009

Process: PBO

Process Description: Paints or coatings are applied in a vented booth.

Emission Source/Control: 16301 - Process

**Item 30.5(From Mod 0):**

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

Emission Unit: U-00001

Process: APS

Process Description:

Air Plasma Spray is used to coat metallic parts with ceramic or alloy powder using a plasma arc mechanism. Alloy powder overspray emissions vent to a dust collector, and in many cases, a HEPA filter.

Emission Source/Control: 05202 - Control

Control Type: PAPER FILTER

Emission Source/Control: 05203 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 05302 - Control

Control Type: PAPER FILTER

Emission Source/Control: 05303 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 06102 - Control

Control Type: PAPER FILTER



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Emission Source/Control: 06103 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 12502 - Control  
Control Type: PAPER FILTER

Emission Source/Control: 12503 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 15502 - Control  
Control Type: PAPER FILTER

Emission Source/Control: 15503 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 15602 - Control  
Control Type: PAPER FILTER

Emission Source/Control: 15603 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 30A02 - Control  
Control Type: PAPER FILTER

Emission Source/Control: 30A03 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 05201 - Process

Emission Source/Control: 05301 - Process

Emission Source/Control: 06101 - Process

Emission Source/Control: 12501 - Process

Emission Source/Control: 15501 - Process

Emission Source/Control: 15601 - Process

Emission Source/Control: 30A01 - Process

**Item 30.6(From Mod 0):**

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

Emission Unit: U-00001

Process: ASP

Process Description:

Air Spray is used to coat metallic parts with alloy wire or powder using a combustion spray gun. Alloy powder overspray emissions vent to a dust collector, and in many cases, a HEPA filter.

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Emission Source/Control: 00702 - Control  
Control Type: PAPER FILTER

Emission Source/Control: 00703 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 03002 - Control  
Control Type: PAPER FILTER

Emission Source/Control: 03003 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 06402 - Control  
Control Type: PAPER FILTER

Emission Source/Control: 06403 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 06502 - Control  
Control Type: PAPER FILTER

Emission Source/Control: 06503 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00701 - Process

Emission Source/Control: 03001 - Process

Emission Source/Control: 06401 - Process

Emission Source/Control: 06501 - Process

**Item 30.7(From Mod 1):**

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

Emission Unit: U-00001

Process: LPP

Process Description:

Low Pressure Plasma Spray is used to apply a metallic coating to turbine engine parts in a pressure and temperature controlled environment. The vacuum chamber for the LPPS unit is connected to a dust collector, which in some cases, vents to the outside. The vacuum chamber for the LPPS unit is also connected to a vacuum pump or screw pumps. The vacuum pumps are then connected to oil baths, cartridge filters or a demister that vents to the outside through a single stack. Trace powder from the LPPS unit vacuum chamber is released into the vacuum system. The oil baths, cartridge filters or demister remove trace powder. There is a polyester felt filter between the vacuum chamber and the screw pumps.

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Emission Source/Control: 08102 - Control  
Control Type: PAPER FILTER

Emission Source/Control: 08103 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 08302 - Control  
Control Type: PAPER FILTER

Emission Source/Control: 08303 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 15402 - Control  
Control Type: LIQUID FILTRATION SYSTEM

Emission Source/Control: 15403 - Control  
Control Type: MIST ELIMINATOR

Emission Source/Control: 16002 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 83A02 - Control  
Control Type: LIQUID FILTRATION SYSTEM

Emission Source/Control: 83A03 - Control  
Control Type: PAPER FILTER

Emission Source/Control: 83B02 - Control  
Control Type: LIQUID FILTRATION SYSTEM

Emission Source/Control: 83B03 - Control  
Control Type: MIST ELIMINATOR

Emission Source/Control: 85A02 - Control  
Control Type: LIQUID FILTRATION SYSTEM

Emission Source/Control: 85A03 - Control  
Control Type: PAPER FILTER

Emission Source/Control: 86A02 - Control  
Control Type: LIQUID FILTRATION SYSTEM

Emission Source/Control: 86A03 - Control  
Control Type: PAPER FILTER

Emission Source/Control: 86B02 - Control  
Control Type: LIQUID FILTRATION SYSTEM

Emission Source/Control: 86B03 - Control  
Control Type: PAPER FILTER

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Emission Source/Control: 08101 - Process

Emission Source/Control: 08301 - Process

Emission Source/Control: 15401 - Process

Emission Source/Control: 16001 - Process

Emission Source/Control: 83A01 - Process

Emission Source/Control: 83B01 - Process

Emission Source/Control: 85A01 - Process

Emission Source/Control: 86A01 - Process

Emission Source/Control: 86B01 - Process

**Item 30.8(From Mod 1):**

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

Emission Unit: U-00002

Process: BOO

Process Description:

An oven is used to burn epoxy resin and thermoplastic rubber from turbine engine parts. The epoxy resin and thermoplastic rubber are used to mask off the holes of airfoils for processing. After processing, the airfoils are placed into an oven to burn off the epoxy resins at temperatures greater than 1300 degrees Fahrenheit (705 degrees Celsius).

Emission Source/Control: 03401 - Process

Emission Source/Control: 05501 - Process

Emission Source/Control: 12601 - Process

Emission Source/Control: 13001 - Process

Emission Source/Control: 13201 - Process

Emission Source/Control: 13901 - Process

Emission Source/Control: 14801 - Process

Emission Source/Control: 14901 - Process

Emission Source/Control: 15701 - Process

Emission Source/Control: 15801 - Process

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Emission Source/Control: 16101 - Process

Emission Source/Control: 16201 - Process

**Item 30.9(From Mod 0):**

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

Emission Unit: U-00003

Process: ACL

Process Description:

Turbine engine parts are cleaned by either submerging them in liquid acids in tanks or subjecting them to a gas phase acid in a controlled chamber. Acid fumes from hooded tanks or the process chamber are controlled by a scrubber.

Emission Source/Control: 04702 - Control

Control Type: PACKED-GAS ABSORPTION SYSTEM

Emission Source/Control: 04802 - Control

Control Type: PACKED-GAS ABSORPTION SYSTEM

Emission Source/Control: 05002 - Control

Control Type: PACKED GAS ABSORPTION SYSTEM, VENTURI SCRUBBER

Emission Source/Control: 04701 - Process

Emission Source/Control: 04801 - Process

Emission Source/Control: 05001 - Process

**Item 30.10(From Mod 1):**

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

Emission Unit: U-00003

Process: PLG

Process Description:

Blade tip plating operation utilizing hydrochloric acid tanks. The tanks vent to a scrubber.

Emission Source/Control: 11103 - Control

Control Type: PACKED-GAS ABSORPTION SYSTEM

Emission Source/Control: 11101 - Process

Emission Source/Control: 11102 - Process

**Item 30.11(From Mod 1):**

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

Emission Unit: U-00004

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Process: FPI

Process Description:

A fluorescent penetrant developer, which consists of a free flowing powder, is dusted onto the turbine parts to develop the penetrant used in the detection of defects during the inspection process. The particulate emissions are controlled by a dust collector.

Emission Source/Control: 14402 - Control

Control Type: PAPER FILTER

Emission Source/Control: 15202 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 12701 - Process

Emission Source/Control: 12702 - Process

Emission Source/Control: 12703 - Process

Emission Source/Control: 14401 - Process

Emission Source/Control: 15201 - Process

**Item 30.12(From Mod 0):**

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

Emission Unit: U-00004

Process: FPR

Process Description:

A fluorescent penetrant, which contains a mixture of organic solvents, is sprayed on the turbine parts to aid in the inspection process. The parts are then rinsed with an alcohol solution.

Emission Source/Control: 15301 - Process

**Item 30.13(From Mod 1):**

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

Emission Unit: U-00004

Process: FPS

Process Description:

A fluorescent penetrant, which contains a mixture of organic solvents, is sprayed on the turbine parts to aid in the detection of defects during the inspection process.

Emission Source/Control: 11701 - Process

Emission Source/Control: 11801 - Process

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Emission Source/Control: 13601 - Process

Emission Source/Control: 14301 - Process

Emission Source/Control: 15101 - Process

**Item 30.14(From Mod 0):**

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

Emission Unit: U-00005

Process: EPM

Process Description:

An epoxy resin is mixed and stored on a hot plate. The epoxy is used to coat aircraft engine parts prior to laser drilling.

Emission Source/Control: 06801 - Process

Emission Source/Control: 13101 - Process

Emission Source/Control: 13501 - Process

**Item 30.15(From Mod 0):**

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

Emission Unit: U-00005

Process: NMM

Process Description:

Portions of turbine engine parts are masked to prevent the application of coatings to these areas. Masking material is made from a powder that is mixed with water or solvents to form a slurry. Some masking materials are pre-mixed, but may require thinning. Following the coating process, the masking material is removed. Air emissions from these operations include both particulate and volatile compounds. Individual sources could include drum unloading, mixers, application work stations, dryers, cleaning and finishing stations and inspection. The particulate emissions are controlled by a dust collector.

Emission Source/Control: 14602 - Control

Control Type: PAPER FILTER

Emission Source/Control: 08801 - Process

Emission Source/Control: 14601 - Process

**Item 30.16(From Mod 0):**

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

Emission Unit: U-00007

Process: LSR

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**Process Description:**

Lasers are used to process turbine parts by cutting, drilling, and milling. Metal fume, chip or dust generated from the process is captured in a hood and controlled by a dust collector.

Emission Source/Control: 09102 - Control

Control Type: PAPER FILTER

Emission Source/Control: 12302 - Control

Control Type: PAPER FILTER

Emission Source/Control: 12303 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 09101 - Process

Emission Source/Control: 12301 - Process

**Item 30.17(From Mod 1):**

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

Emission Unit: U-00008

Process: GPC

**Process Description:**

Gas-phase coating of aircraft engine parts with aluminum compounds or alloys. Emissions are controlled by filters or a wet collector.

Emission Source/Control: 11202 - Control

Control Type: WET SCRUBBER

Emission Source/Control: 11203 - Control

Control Type: FLARING

Emission Source/Control: 13402 - Control

Control Type: WET SCRUBBER

Emission Source/Control: 13403 - Control

Control Type: FLARING

Emission Source/Control: 15002 - Control

Control Type: PAPER FILTER

Emission Source/Control: 15902 - Control

Control Type: WET SCRUBBER

Emission Source/Control: 11201 - Process

Emission Source/Control: 13401 - Process

Emission Source/Control: 15001 - Process



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Emission Source/Control: 15901 - Process

**Item 30.18(From Mod 1):**

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

Emission Unit: U-00009

Process: FPD

Process Description:

A fluorescent penetrant developer, which consists of a free flowing powder, is dusted onto the turbine parts to develop the penetrant used in the detection of defects during the inspection process. The particulate emissions are controlled by a dust collector.

Emission Source/Control: 12204 - Control

Control Type: PAPER FILTER

Emission Source/Control: 12202 - Process

Emission Source/Control: 12203 - Process

**Item 30.19(From Mod 1):**

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

Emission Unit: U-00009

Process: GRW

Process Description:

Particulate matter is generated at various grinding stations. The particulate emissions from the grinding stations are controlled by a dust collector.

Emission Source/Control: 12204 - Control

Control Type: PAPER FILTER

Emission Source/Control: 12201 - Process

**Item 30.20(From Mod 0):**

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

Emission Unit: U-00009

Process: PCS

Process Description:

The Pack Coating Stations consist of a number of individual sources involved in the handling, blending and loading operations involving coating powders for turbine engine parts. The sources include hopper hoods, vibratory screens, blenders, retort unloading and drum unloading. The particulate emissions are controlled by a dust collector.

Emission Source/Control: 14702 - Control

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Control Type: PAPER FILTER

Emission Source/Control: 11401 - Process

Emission Source/Control: 14701 - Process

**Item 30.21(From Mod 0):**

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

Emission Unit: U-00009

Process: PLP

Process Description:

The Platinum Plating Operation uses three different chemicals: Platinum (II) P solution, Ammonium Phosphate Dibasic, and Ammonium Hydroxide. Ammonia fumes from hooded tanks are exhausted.

Emission Source/Control: 133A1 - Process

Emission Source/Control: 133B1 - Process

Emission Source/Control: 133C1 - Process

