



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

**IDENTIFICATION INFORMATION**

Permit Type: Air State Facility  
Permit ID: 3-3352-00334/00001  
Mod 0 Effective Date: 06/21/2010 Expiration Date: 06/20/2020  
Mod 1 Effective Date: 08/14/2013 Expiration Date: 06/20/2020  
Mod 2 Effective Date: 09/03/2015 Expiration Date: 06/20/2020

Permit Issued To: ADVANCED COATING TECHNOLOGIES LLC  
60 TURNER RD STE A  
MIDDLETOWN, NY 10941

Facility: ADVANCED COATING TECHNOLOGIES  
60 TURNER RD STE A  
MIDDLETOWN, NY 10941

Contact: ROBERT RADCLIFFE  
ADVANCED COATING TECHNOLOGIES  
60 TURNER RD STE A  
MIDDLETOWN, NY 10941

Description:  
The facility is primarily used for the application of engineered coatings to industrial and military specifications. The operations include but are not limited to coating, cleaning, cutting, and heat treating.

Modification #1 of the permit was for the addition of two emission points (for a second evaporator and a third air pressure plasma spray coater).

Modification #2 of the permit is for the addition of two emission points (for a central vacuum system and cathodic arc machines) and for the modification of three air pressure plasma spray coaters.

**New York State Department of Environmental Conservation**  
**Facility DEC ID: 3335200334**



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 - REGION 3  
  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
- Relationship of this Permit to Other Department Orders and Determinations
  - Applications for permit renewals, modifications and transfers
  - Permit modifications, suspensions or revocations by the Department
  - 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: Facility Inspection by the Department**

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

**Item 1.1:**

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

**Item 1.2:**

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

**Item 1.3:**

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

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

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

**Item 2.1:**

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

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

**Applicable State Requirement: 6 NYCRR 621.11**

**Item 3.1:**

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

**Item 3.2:**

The permittee must submit a renewal application at least 180 days before 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 1-1: Permit modifications, suspensions or revocations by the Department**

**Applicable State Requirement: 6 NYCRR 621.13**

**Item 1-1.1:**

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.

**Condition 5: Permit modifications, suspensions or revocations by the Department**

**Applicable State Requirement: 6 NYCRR 621.13**

**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.

**\*\*\*\* 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



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

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

**IDENTIFICATION INFORMATION**

Permit Issued To: ADVANCED COATING TECHNOLOGIES LLC  
60 TURNER RD STE A  
MIDDLETOWN, NY 10941

Facility: ADVANCED COATING TECHNOLOGIES  
60 TURNER RD STE A  
MIDDLETOWN, NY 10941

Authorized Activity By Standard Industrial Classification Code:  
3479 - METAL COATING AND ALLIED SERVICES, NEC

Mod 0 Permit Effective Date: 06/21/2010

Permit Expiration Date: 06/20/2020

Mod 1 Permit Effective Date: 08/14/2013

Permit Expiration Date: 06/20/2020

Mod 2 Permit Effective Date: 09/03/2015

Permit Expiration Date: 06/20/2020



**LIST OF CONDITIONS**

**FEDERALLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 1 6 NYCRR 200.7: Maintenance of Equipment
- 2-1 6 NYCRR 202-1.1: Required Emissions Tests
- 1-1 6 NYCRR 211.1: Air pollution prohibited
- 2-2 6 NYCRR 212-1.6 (a): Compliance Demonstration
- 2-3 6 NYCRR 212-2.4 (b): Compliance Demonstration

**Emission Unit Level**

**EU=U-00001,Proc=001**

- 5 40CFR 63, Subpart WWWW: Compliance Demonstration

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 6 ECL 19-0301: Contaminant List
- 1-4 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 8 6 NYCRR Subpart 201-5: Emission Unit Definition
- 1-5 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits
- 1-6 6 NYCRR 201-5.3 (c): Compliance Demonstration
- 1-7 6 NYCRR 211.2: Visible Emissions Limited
- 2-4 6 NYCRR 212-2.2: Compliance Demonstration
- 2-5 6 NYCRR 212-2.3 (b): Compliance Demonstration

**Emission Unit Level**

- 10 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 11 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

**EU=U-00001,EP=00009**

- 2-6 6 NYCRR 212-2.3 (b): Compliance Demonstration

**EU=U-00003,EP=00010**

- 2-7 6 NYCRR 212-2.3 (b): Compliance Demonstration

**EU=U-00004,EP=00011**

- 2-8 6 NYCRR 212-2.3 (b): Compliance Demonstration



**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**



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: Maintenance of Equipment**



**Effective between the dates of 06/21/2010 and 06/20/2020**

**Applicable Federal Requirement:6 NYCRR 200.7**

**Item 1.1:**

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

**Condition 2-1: Required Emissions Tests**  
**Effective between the dates of 09/03/2015 and 06/20/2020**

**Applicable Federal Requirement:6 NYCRR 202-1.1**

**Item 2-1.1:**

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

**Condition 1-1: Air pollution prohibited**  
**Effective between the dates of 08/14/2013 and 06/20/2020**

**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 2-2: Compliance Demonstration**  
**Effective between the dates of 09/03/2015 and 06/20/2020**

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

**Item 2-2.1:**

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

Emission Unit: U-00001	Emission Point: 00001
Emission Unit: U-00001	Emission Point: 00002



Emission Unit: U-00001	Emission Point: 00003
Emission Unit: U-00001	Emission Point: 00004
Emission Unit: U-00001	Emission Point: 00005
Emission Unit: U-00001	Emission Point: 00006
Emission Unit: U-00001	Emission Point: 00009
Emission Unit: U-00003	Emission Point: 00010
Emission Unit: U-00004	Emission Point: 00011

**Item 2-2.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No facility owner or operator shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source or emission point, except for the emission of uncombined water.

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

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 2-3: Compliance Demonstration**  
**Effective between the dates of 09/03/2015 and 06/20/2020**

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

**Item 2-3.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001	Emission Point: 00005
Emission Unit: U-00001	Emission Point: 00006

Regulated Contaminant(s):



CAS No: 0NY075-00-0 PARTICULATES

**Item 2-3.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

No facility owner or operator shall cause or allow emissions of particulates that exceed 0.050 grains per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis. Emission testing will be conducted by the facility owner if directed by the Department.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.050 grains per dscf

Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

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

**Condition 5: Compliance Demonstration**  
**Effective between the dates of 06/21/2010 and 06/20/2020**

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

**Item 5.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Process: 001

**Item 5.2:**

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.

**New York State Department of Environmental Conservation**

**Permit ID: 3-3352-00334/00001**

**Facility DEC ID: 3335200334**



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 the manufacturer's specifications and instructions. The annual report must be submitted only if any 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 by the facility for a 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



**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.**



**Condition 6: Contaminant List**

**Effective between the dates of 06/21/2010 and 06/20/2020**

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

**Item 6.1:**

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

CAS No: 007440-02-0

Name: NICKEL METAL AND INSOLUBLE COMPOUNDS

CAS No: 007440-47-3

Name: CHROMIUM

CAS No: 0NY075-00-0

Name: PARTICULATES

**Condition 1-4: Malfunctions and start-up/shutdown activities**

**Effective between the dates of 08/14/2013 and 06/20/2020**

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

**Item 1-4.1:**

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

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

(c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. 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.

**New York State Department of Environmental Conservation**

Permit ID: 3-3352-00334/00001

Facility DEC ID: 3335200334



(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 8: Emission Unit Definition**  
**Effective between the dates of 06/21/2010 and 06/20/2020**

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

**Item 8.1(From Mod 2):**

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 8.2(From Mod 2):**

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

Emission Unit: U-00002

Emission Unit Description:

EVAPORATOR

Building(s): MAIN

**Item 8.3(From Mod 2):**

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

Emission Unit: U-00003

Emission Unit Description:

CENTRAL VACUUM

Building(s): MAIN

**Item 8.4(From Mod 2):**

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

Emission Unit: U-00004

Emission Unit Description:

CATHODIC ARC MACHINES

Building(s): MAIN

**Condition 1-5: Renewal deadlines for state facility permits**  
**Effective between the dates of 08/14/2013 and 06/20/2020**

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





CAS No: 007440-47-3 CHROMIUM

**Item 2-4.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For an air contaminant listed in Part 212 Table 2, the owner or operator shall limit the actual annual emissions from all process operations at the facility so as to not exceed the mass emission limit listed for the individual High Toxicity Air Contaminant. According to Table 2, emissions of chromium compounds are limited to 250 pounds per year.

Monitoring Frequency: ANNUALLY

Averaging Method: ANNUAL TOTAL

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 2-5: Compliance Demonstration**  
**Effective between the dates of 09/03/2015 and 06/20/2020**

**Applicable State Requirement:6 NYCRR 212-2.3 (b)**

**Item 2-5.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001

Emission Point: 00001

Emission Unit: U-00001

Emission Point: 00002

Emission Unit: U-00001

Emission Point: 00003

Emission Unit: U-00001

Emission Point: 00004

Regulated Contaminant(s):

CAS No: 007440-02-0

NICKEL METAL AND INSOLUBLE

COMPOUNDS

**Item 2-5.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In accordance with Table 4 of Part 212, a reduction of at least 90 percent in emissions of nickel, as an A rated contaminant, must be achieved. Filters must be utilized on the process emission point to achieve this reduction. Filters must be maintained in good condition, and a record shall be kept of when filters are replaced.



Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION  
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

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

**Condition 10: Emission Point Definition By Emission Unit**  
Effective between the dates of 06/21/2010 and 06/20/2020

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

**Item 10.1(From Mod 2):**

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

Emission Unit: U-00001

Emission Point: 00001  
Height (ft.): 38 Diameter (in.): 4  
NYTMN (km.): 4590.565 NYTME (km.): 551.937 Building: MAIN

Emission Point: 00002  
Height (ft.): 38 Diameter (in.): 4  
NYTMN (km.): 4590.565 NYTME (km.): 551.937 Building: MAIN

Emission Point: 00003  
Height (ft.): 38 Diameter (in.): 4  
NYTMN (km.): 4590.565 NYTME (km.): 551.937 Building: MAIN

Emission Point: 00004  
Height (ft.): 38 Diameter (in.): 4  
NYTMN (km.): 4590.565 NYTME (km.): 551.937 Building: MAIN

Emission Point: 00005  
Height (ft.): 7 Length (in.): 48 Width (in.): 72  
NYTMN (km.): 4590.565 NYTME (km.): 551.937 Building: MAIN

Emission Point: 00006  
Height (ft.): 7 Length (in.): 48 Width (in.): 72  
NYTMN (km.): 4590.565 NYTME (km.): 551.937 Building: MAIN

Emission Point: 00009  
Height (ft.): 7 Length (in.): 48 Width (in.): 72  
NYTMN (km.): 4590.565 NYTME (km.): 551.937 Building: MAIN

**Item 10.2(From Mod 2):**

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

Emission Unit: U-00003

Emission Point: 00010

**New York State Department of Environmental Conservation**

Permit ID: 3-3352-00334/00001

Facility DEC ID: 3335200334



Height (ft.): 11                      Diameter (in.): 8  
NYTMN (km.): 4590.565    NYTME (km.): 551.937    Building: MAIN

**Item 10.3(From Mod 2):**

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

Emission Unit: U-00004

Emission Point: 00011  
Height (ft.): 38                      Diameter (in.): 4  
NYTMN (km.): 4590.565    NYTME (km.): 551.937    Building: MAIN

**Item 10.4(From Mod 1):**

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

Emission Unit: U-00002

Emission Point: 00007  
Height (ft.): 38                      Diameter (in.): 3  
NYTMN (km.): 4590.565    NYTME (km.): 551.937    Building: MAIN

Emission Point: 00008  
Height (ft.): 22                      Diameter (in.): 4  
NYTMN (km.): 4590.565    NYTME (km.): 551.937    Building: MAIN

**Condition 11: Process Definition By Emission Unit  
Effective between the dates of 06/21/2010 and 06/20/2020**

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

**Item 11.1(From Mod 2):**

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

Emission Unit: U-00001

Process: 002

Process Description:

Emission points 5, 6, and 9 correspond to three (3) Air Pressure Plasma Spray (APPS) Coaters. The APPS is used to apply ceramic coatings to turbine vanes. Trace powder from the APPS is released into a dust collector and then a HEPA filter which exhausts to the atmosphere seven feet above the ground. The process is operated a total of approximately 8760 hours per year.

Emission Source/Control: 00502 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00503 - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 00602 - Control





Process Description:

Emission Point 11 corresponds to four cathodic arc machines, which are used to apply a metal coating to parts. Each cathodic arc machine is connected to a vacuum pump that has a standard pump filter.

Emission Source/Control: 01105 - Control  
Control Type: FIBERGLASS FILTER

Emission Source/Control: 01106 - Control  
Control Type: FIBERGLASS FILTER

Emission Source/Control: 01107 - Control  
Control Type: FIBERGLASS FILTER

Emission Source/Control: 01108 - Control  
Control Type: FIBERGLASS FILTER

Emission Source/Control: 01101 - Process

Emission Source/Control: 01102 - Process

Emission Source/Control: 01103 - Process

Emission Source/Control: 01104 - Process

**Item 11.5(From Mod 1):**

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

Emission Unit: U-00001

Process: 001

Process Description:

Emission points 1, 2, 3 and 4 correspond to vacuum pumps for the four Low Pressure Plasma Spray (LPPS) Coaters. The LPPSs are used for various coatings of gas turbine engines, blades and vane airfoils in a pressure and temperature controlled environment. The vacuum chamber for the LPPS is connected to a dust collector that does not vent to the outside. The vacuum chamber is also connected to a vacuum pump, which vents to the outside through a single stack. Trace powder from the LPPS vacuum chamber is released into the vacuum pump where it is trapped in a glass filter and an oil bath.

Emission Source/Control: 00102 - Control  
Control Type: LIQUID FILTRATION SYSTEM

Emission Source/Control: 00103 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00202 - Control  
Control Type: LIQUID FILTRATION SYSTEM



Emission Source/Control: 00203 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00302 - Control  
Control Type: LIQUID FILTRATION SYSTEM

Emission Source/Control: 00303 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00402 - Control  
Control Type: LIQUID FILTRATION SYSTEM

Emission Source/Control: 00403 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00101 - Process

Emission Source/Control: 00201 - Process

Emission Source/Control: 00301 - Process

Emission Source/Control: 00401 - Process

**Condition 2-6: Compliance Demonstration**  
**Effective between the dates of 09/03/2015 and 06/20/2020**

**Applicable State Requirement:6 NYCRR 212-2.3 (b)**

**Item 2-6.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001 Emission Point: 00009

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

**Item 2-6.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

In accordance with Table 4 of Part 212, a reduction of at least 90 percent in emissions of nickel, as an A rated contaminant, must be achieved. Fabric filters or HEPA filters must be utilized on the process emission point to achieve this reduction. Filters must be maintained in good condition, and a record shall be kept of when filters are replaced.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING



**New York State Department of Environmental Conservation**

**Permit ID: 3-3352-00334/00001**

**Facility DEC ID: 3335200334**



**Monitoring Description:**

To satisfy Part 212 emission standards, a reduction of at least 90 percent in emissions of nickel, as an A rated contaminant, must be achieved. Pump filters must be utilized on the process emission point to achieve this reduction. Filters must be maintained in good condition, and a record shall be kept of when filters are replaced.

**Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION**

**Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY**

