



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

**IDENTIFICATION INFORMATION**

Permit Type: Air State Facility  
Permit ID: 6-3016-00163/00003  
Effective Date: 07/23/2014 Expiration Date: 07/22/2024

Permit Issued To: THE INDIUM CORPORATION OF AMERICA  
1676 LINCOLN AVE  
UTICA, NY 13502

Contact: NANCY L SWARTS  
THE INDIUM CORPORATION OF AMERICA  
1676 LINCOLN AVE, PO BOX 269  
UTICA, NY 13502-0269  
(315) 853-4900

Facility: THE INDIUM CORPORATION OF AMERICA  
111 BUSINESS PARK DR  
UTICA, NY 13502

Description:

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: PATRICK M CLEAREY  
NYSDEC - UTICA SUBOFFICE  
207 GENESEE ST  
UTICA, NY 13501

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

**Facility Level**

- Submission of application for permit modification or renewal-REGION 6 SUBOFFICE - UTICA



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

**Item 4.1:**

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

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

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

**Condition 5: Submission of application for permit modification or renewal-REGION 6**  
**SUBOFFICE - UTICA**  
**Applicable State Requirement: 6 NYCRR 621.6 (a)**

**Item 5.1:**

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

NYSDEC Regional Permit Administrator  
Region 6 Sub-office  
Division of Environmental Permits  
State Office Building, 207 Genesee Street  
Utica, NY 13501-2885  
(315) 793-2555

**New York State Department of Environmental Conservation**

Permit ID: 6-3016-00163/00003

Facility DEC ID: 6301600163



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

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

**IDENTIFICATION INFORMATION**

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1676 LINCOLN AVE  
UTICA, NY 13502

Facility: THE INDIUM CORPORATION OF AMERICA  
111 BUSINESS PARK DR  
UTICA, NY 13502

Authorized Activity By Standard Industrial Classification Code:  
3356 - NONFERROUS ROLLING AND DRAWING  
3499 - FABRICATED METAL PRODUCTS, NEC  
3861 - PHOTOGRAPH EQUIPMENT & SUPPLIES

Permit Effective Date: 07/23/2014

Permit Expiration Date: 07/22/2024



**LIST OF CONDITIONS**

**FEDERALLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 1 6 NYCRR 211.1: Air pollution prohibited
- 2 6 NYCRR 212.4 (c): Compliance Demonstration
- 3 6 NYCRR 212.6 (a): Compliance Demonstration
- 4 6 NYCRR Part 226: Compliance Demonstration
- 5 40CFR 63.460(b), Subpart T: Applicability of Part 63 General Provisions
- 6 40CFR 63.462(b), Subpart T: Compliance Demonstration
- 7 40CFR 63.462(d), Subpart T: Batch cold cleaning machine reporting requirements
- 8 40CFR 63.463, Subpart T: Batch vapor and In-line machines: base design requirements
- 9 40CFR 63.463(b)(1)(i), Subpart T: Compliance Demonstration
- 10 40CFR 63.463(d), Subpart T: Compliance Demonstration
- 11 40CFR 63.463(e)(2)(ii), Subpart T: Compliance Demonstration
- 12 40CFR 63.463(e)(2)(iv), Subpart T: Compliance Demonstration
- 13 40CFR 63.463(e)(2)(v), Subpart T: Compliance Demonstration
- 14 40CFR 63.464(a)(1), Subpart T: Compliance Demonstration
- 15 40CFR 63.465(b), Subpart T: Compliance Demonstration
- 16 40CFR 63.465(c), Subpart T: Compliance Demonstration
- 17 40CFR 63.465(d), Subpart T: Dwell time determination
- 18 40CFR 63.465(e), Subpart T: PTE determination
- 19 40CFR 63.466(c), Subpart T: Compliance Demonstration
- 20 40CFR 63.466(d)(1), Subpart T: Compliance Demonstration
- 21 40CFR 63.467(a), Subpart T: Compliance Demonstration
- 22 40CFR 63.467(b), Subpart T: Compliance Demonstration
- 23 40CFR 63.468(f), Subpart T: Compliance Demonstration
- 24 40CFR 63.468(h), Subpart T: Compliance Demonstration
- 25 40CFR 63.471(b)(1), Subpart T: Compliance Demonstration
- 26 40CFR 63.471(b)(2), Subpart T: Compliance Demonstration
- 27 40CFR 63.471(c), Subpart T: Compliance Demonstration
- 28 40CFR 63.471(e), Subpart T: Compliance Demonstration
- 29 40CFR 63.471(h), Subpart T: Compliance Demonstration
- 30 40CFR 63.11514(b), Subpart XXXXXX: Affect source categories
- 31 40CFR 63.11514(c), Subpart XXXXXX: Date for existing sources
- 32 40CFR 63.11515(a), Subpart XXXXXX: Compliance date for existing sources
- 33 40CFR 63.11516(a), Subpart XXXXXX: Compliance Demonstration
- 34 40CFR 63.11517(a), Subpart XXXXXX: Compliance Demonstration
- 35 40CFR 63.11519(a), Subpart XXXXXX: Compliance Demonstration
- 36 40CFR 63.11519(b), Subpart XXXXXX: Compliance Demonstration
- 37 40CFR 63.11519(c), Subpart XXXXXX: Compliance Demonstration

**Emission Unit Level**

**EU=1-1020B**

- 38 40CFR 63.11507(g), Subpart WWWWWW: Compliance Demonstration
- 39 40CFR 63.11508(d)(1), Subpart WWWWWW: Compliance Demonstration
- 40 40CFR 63.11508(d)(2), Subpart WWWWWW: Compliance Demonstration
- 41 40CFR 63.11508(d)(8), Subpart WWWWWW: Compliance Demonstration



- 42 40CFR 63.11509(a), Subpart WWWW: Compliance Demonstration
- 43 40CFR 63.11509(b), Subpart WWWW: Compliance Demonstration
- 44 40CFR 63.11509(c)(6), Subpart WWWW: Compliance Demonstration
- 45 40CFR 63.11509(c)(7), Subpart WWWW: Compliance Demonstration
- 46 40CFR 63.11509(d), Subpart WWWW: Compliance Demonstration
- 47 40CFR 63.11509(e), Subpart WWWW: Compliance Demonstration
- 48 40CFR 63.11509(f), Subpart WWWW: Compliance Demonstration

**EU=1-1080H,Proc=PB5,ES=00CC1**

- 49 6 NYCRR Part 226: Compliance Demonstration

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 50 ECL 19-0301: Contaminant List
- 51 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 52 6 NYCRR Subpart 201-5: Emission Unit Definition
- 53 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits
- 54 6 NYCRR 201-5.3 (c): Compliance Demonstration
- 55 6 NYCRR 211.2: Visible Emissions Limited

**Emission Unit Level**

- 56 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 57 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**



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: Air pollution prohibited**



Effective between the dates of 07/23/2014 and 07/22/2024

Applicable Federal Requirement:6 NYCRR 211.1

**Item 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: Compliance Demonstration**  
Effective between the dates of 07/23/2014 and 07/22/2024

Applicable Federal Requirement:6 NYCRR 212.4 (c)

**Item 2.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 2.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

In instances where determination of permissible emission rate using process weight is not applicable and for an environmental rating of B or C, no person will cause or allow emissions of solid particulates that exceed 0.050 grains of particulates per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis. The Department reserves the right to perform or require the performance of a Method 5 emissions evaluation at any time.

The permittee will conduct compliance verifications at the monitoring frequency stated below. These verifications include review of pertinent information relating to particulate emissions of the source, including but not limited to production rate, process material, air flow rate, control equipment parameters, visible emissions, etc. The permittee will confirm that during source operation all pertinent parameters (whether used to directly calculate particulate emission rate, or as surrogates) are within ranges that ensure compliance with the particulate emission rate.

Additionally, the permittee will investigate, in a timely manner, any instance where there is cause to believe that particulate emissions above 0.050 gr/dscf are occurring or



have occurred. These instances include but are not limited to process upsets, control device malfunctions or problems, abnormal visible emissions, complaints, etc. The permittee shall determine the cause of any exceedance, make the necessary correction, and verify that the excess emissions problem has been corrected.

Records of these verifications, investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: PARTICULATES  
Upper Permit Limit: 0.050 grains per dscf  
Monitoring Frequency: MONTHLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2015.  
Subsequent reports are due every 12 calendar month(s).

**Condition 3: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

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

**Item 3.1:**  
The Compliance Demonstration activity will be performed for the Facility.

**Item 3.2:**  
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

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

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.



The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Monitoring Frequency: DAILY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2015.  
Subsequent reports are due every 12 calendar month(s).

**Condition 4: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement: 6 NYCRR Part 226**

**Item 4.1:**  
The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):  
CAS No: 0NY998-00-0 VOC

**Item 4.2:**  
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

6NYCRR 226. Requirements for Cold Cleaning Degreasers  
(Non Title V after 12/31/2003)

A. Equipment Specifications

The following types of control equipment must be used when conducting cold cleaning degreasing, solvent metal cleaning:



- (1) A cover which can be operated easily.
- (2) An internal drainage facility (under cover), if practical.
- (3) A control system that limits VOC emissions to those achievable with equipment having a freeboard ratio greater than or equal to 0.5, or a water cover when the solvent is insoluble in and heavier than water. This does not apply to remote reservoir degreasers.
- (4) Solvent with a vapor pressure of 1.0 mm Hg, or less, at 20 C.

B. Operating Requirements:

When cold cleaning, the clean parts must be drained at least 15 seconds or until dripping ceases.

C. General Requirements:

A Person conducting solvent metal cleaning must:

- (1) Store solvent in covered containers and transfer or dispose of waste solvent in such a manner that less than 20 percent of the waste solvent (by weight) can evaporate into the atmosphere.
- (2) Maintain equipment to minimize leaks and fugitive emissions.
- (3) Display at the equipment location a conspicuous summary of proper operating procedures consistent with minimizing emissions of VOCs.
- (4) Keep the degreaser cover closed except when:
  - (a) parts are being placed into or being removed from the degreaser;
  - (b) adding or removing solvent from the degreaser;
  - (c) no solvent is in the degreaser; or
  - (d) when manually cleaning metal parts in the cold cleaning degreaser.
- (5) Create and retain a record of solvent consumption for five years. This record must be made available to the Department upon request.
- (6) Not clean sponges, fabric, wood, leather, paper products and other absorbent materials in a degreaser.
- (7) If using a cold cleaning degreaser that is subject to paragraph 226.3(a)(4), retain a record of the following three items for five years and provide these records to the Department upon request. An invoice, a bill of sale, a certificate covering multiple sales, a Material Safety Data Sheet (MSDS), or other appropriate documentation acceptable to the Department may be used to comply with this requirement.
  - (a) the name and address of the solvent supplier;
  - (b) the type of solvent including the product or vendor identification number; and

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(c) the vapor pressure of the solvent measured in mm Hg at 20 °C (68 °F).

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 5: Applicability of Part 63 General Provisions**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.460(b), Subpart T**

**Item 5.1:**

Owners or operators of affected sources subject to 40CFR63 Subpart T must also comply with the requirements of Subpart A of Part 63, according to the applicability of Subpart A to such sources, as identified in Appendix B of Subpart T. Subpart A is the General Provisions for the NESHAP for Source Categories regulations. The General Provisions contain requirements for performance testing, monitoring, notification, recordkeeping, reporting, and control devices that may apply to the source.

**Condition 6: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.462(b), Subpart T**

**Item 6.1:**

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

Emission Unit: 1-1080H

Process: PB5

Emission Source: 00CC1

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

**Item 6.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Each owner of operator of a remote-reservoir batch cold solvent cleaning machine shall employ a tightly fitting cover over the solvent sump that shall be closed at all times except during the cleaning of parts.

Owner/operator shall also comply with the following work practice standards:

- 1) All waste solvent shall be collected and stored in closed containers.
- 2) If a flexible hose or flushing device is used, flushing



shall be performed only within the freeboard area of the solvent cleaning machine.

3) Owner/operator shall drain solvent cleaned parts for 15 seconds or until dripping has stopped, whichever is longer. Parts having holes or cavities shall be tipped or rotated during drainage.

4) Owner/operator shall ensure that the solvent level does not exceed the fill line.

5) Spills during solvent transfer shall be wiped up immediately. The wipe rags shall be stored in covered containers.

6) When an air- or pump-agitated solvent bath is used, owner/operator shall ensure that the agitator is operated to produce a rolling motion of the solvent but not observable splashing against the tank walls or parts being cleaned.

7) Owner/operator shall ensure that, when the cover is open, the cold cleaning machine is not exposed to drafts greater than 40 meters/minute (132 ft/min), as measured between 1 and 2 meters upwind and at the same elevation as the tank lip.

8) Sponges, fabrics, wood, and paper products shall not be cleaned.

Each owner/operator of a batch cold cleaning machine shall submit an initial notification report as described in 40CFR63.468(a) or (b) and a compliance report as described in 40CFR63.468(c).

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

**Condition 7: Batch cold cleaning machine reporting requirements  
Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.462(d), Subpart T**

**Item 7.1:**

This Condition applies to:

Emission Unit: 11080H

Process: PB5

Emission Source: 00CC1



**Item 7.2:**

Each owner or operator of a batch cold cleaning machine shall submit an initial notification report as described in 40 CFR 63.468(a) and (b) and a compliance report as described in 40 CFR 63.468(c).

**Condition 8: Batch vapor and In-line machines: base design requirements  
Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement: 40CFR 63.463, Subpart T**

**Item 8.1:**

This Condition applies to:

Emission Unit: 11080H  
Process: PB3                      Emission Source: 00DG4

Emission Unit: 11080H  
Process: PB3                      Emission Source: 00DG5

Emission Unit: 11090I  
Process: IN4                      Emission Source: 00DG1

Emission Unit: 11200K  
Process: GC3                      Emission Source: 00DG2

**Item 8.2:**

Base Design Requirements. All Batch vapor and in-line machines complying with either the control combinations or the idling emission limit must be equipped with the following:

1. Either an idling mode cover or reduced room draft.
2. A freeboard ratio of 0.75 or greater.
3. Automated parts handling system which moves parts or parts baskets at a speed of 3.4 meters per minute or less.
4. Vapor cleaning machines shall be equipped with automatic shutoff if the sump liquid solvent level drops to the sump heater coils.
5. Vapor cleaning machines shall be equipped with automatic shutoff if the vapor level rises above the primary condenser.
6. Vapor machines shall have a primary condenser.
7. Cleaning machines with a lip exhaust shall use a carbon adsorber to control emissions.

**Condition 9: Compliance Demonstration  
Effective between the dates of 07/23/2014 and 07/22/2024**



**Applicable Federal Requirement:40CFR 63.463(b)(1)(i), Subpart T**

**Item 9.1:**

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

Emission Unit: 1-1080H Process: PB3	Emission Source: 00DG4
Emission Unit: 1-1080H Process: PB3	Emission Source: 00DG5
Emission Unit: 1-1090I Process: IN4	Emission Source: 00DG1
Emission Unit: 1-1200K Process: GC3	Emission Source: 00DG2

**Item 9.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Each batch vapor cleaning machine with a solvent/air interface area of 1.21 sq. meters (13 sq. ft.) or less shall employ one of the options listed in Table 1 of 40 CFR 63.463.

If the facility chooses option 8, then the facility is employing the combination of reduced room draft, dwell, and a freeboard ratio of 1.0.

The reduced room draft must be monitored according to the provisions listed in 40 CFR 63.463(e)(2)(ii). The dwell must be monitored according to the provisions in 40 CFR 63.463(e)(2)(v).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

**Condition 10: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.463(d), Subpart T**

**Item 10.1:**

The Compliance Demonstration activity will be performed for the facility:



The Compliance Demonstration applies to:

Emission Unit: 1-1080H Process: PB3	Emission Source: 00DG4
Emission Unit: 1-1080H Process: PB3	Emission Source: 00DG5
Emission Unit: 1-1090I Process: IN4	Emission Source: 00DG1
Emission Unit: 1-1200K Process: GC3	Emission Source: 00DG2

**Item 10.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Each owner/operator of a new or existing batch vapor solvent cleaning machine shall meet each of the following work and operational practices:

1. Air disturbances across the cleaning machine shall be controlled by either using an idling mode cover or reduced room draft.
2. The parts baskets or the parts being cleaned in an open-top batch vapor cleaning machine shall not occupy more than 50% of the solvent/air interface area unless the parts are introduced at a speed of 3 feet per minute or less.
3. All spraying operations are to be done within the vapor zone.
4. Orient parts so that solvent drains freely from them. Parts with holes shall be tipped or rotated before being removed.
5. Parts or parts baskets are not to be removed until dripping has stopped.
6. During startup of vapor machines, the primary condenser shall be turned on before the sump heater.
7. During shutdown of vapor machines, the sump heater shall be turned off before the primary condenser.
8. Solvent shall be transferred to and from machines using leakproof couplings and submerged filling.



9. Equipment shall be operated per manufacturer's specifications.
10. Each operator shall be able to pass the applicable sections of the test of solvent cleaning operating procedures in Appendix A of Subpart T.
11. Waste solvent, still bottoms, and sump bottoms shall be collected and stored in closed containers.
12. Sponges, fabric, wood and paper products are not to be cleaned.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2015.  
Subsequent reports are due every 6 calendar month(s).

**Condition 11: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement: 40CFR 63.463(e)(2)(ii), Subpart T**

**Item 11.1:**

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

Emission Unit: 1-1080H Process: PB3	Emission Source: 00DG4
Emission Unit: 1-1080H Process: PB3	Emission Source: 00DG5
Emission Unit: 1-1090I Process: IN4	Emission Source: 00DG1
Emission Unit: 1-1200K Process: GC3	Emission Source: 00DG2

**Item 11.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

If reduced room draft is used to comply with the requirements of Subpart T, the owner/operator shall:

- 1) Ensure that the flow or movement of air across the top of the freeboard area of the solvent cleaning machine or within the solvent cleaning machine enclosure does not exceed 15.2 meters per minute (50 ft/min) at any time as



measured using the procedures in 40 CFR 63.466(d). An exceedance has occurred if this requirement is not met and is not corrected within 15 days. The air flow must be remeasured immediately upon repair and demonstrated to not exceed 15.2 meters per minute.

2) Establish and maintain the operating conditions under which the wind speed was demonstrated to be 15.2 meters per minute (50 ft/min) or less as described in 40 CFR 63.466(d). An exceedance has occurred if this requirement is not met at any time.

Any owner/operator of a solvent cleaning machine who controls room parameters in order to use reduced room draft to comply with the equipment standards in 40CFR63.463 shall conduct and record the results of the following monitoring procedure:

1. The owner or operator shall conduct an initial monitoring test of windspeed and of room parameters.
2. The owner or operator shall subsequently conduct quarterly monitoring of windspeed, and weekly monitoring of room parameters, as specified in 40CFR63.466(d)(1).

If the owner/operator uses a full or partial enclosure to use reduced room draft to comply with the equipment standards in 40CFR63.463, the owner/operator shall conduct an initial monitoring test, monthly visual inspections of the enclosure to determine if it is free of holes, cracks, and other defects. The owner/operator shall also perform monthly monitoring tests of the windspeed within the enclosure using the procedure listed in 40CFR63.466(d)(2)(i) and (ii).

Parameter Monitored: AIR FLOW  
Upper Permit Limit: 15.2 meters per minute  
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2015.  
Subsequent reports are due every 6 calendar month(s).

**Condition 12: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.463(e)(2)(iv), Subpart T**

**Item 12.1:**



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

Emission Unit: 1-1080H Process: PB3	Emission Source: 00DG4
Emission Unit: 1-1080H Process: PB3	Emission Source: 00DG5
Emission Unit: 1-1090I Process: IN4	Emission Source: 00DG1
Emission Unit: 1-1200K Process: GC3	Emission Source: 00DG2

**Item 12.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If an idling-mode cover is used to comply with the requirements of 40 CFR 63 Subpart T, the owner/operator shall:

- 1) Ensure that the cover is in place whenever parts are not in the solvent cleaning machine and completely covers the cleaning machine openings when in place, and
- 2) Ensure that the idling-mode cover is maintained free of cracks, holes, and other defects.

The owner/operator shall demonstrate compliance with these requirements on a monthly basis by conducting a visual inspection to determine if the cover is opening and closing properly, completely covers the cleaning machine openings when closed, and is free of cracks, holes, and other defects.

Monitoring Frequency: MONTHLY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2015.  
Subsequent reports are due every 6 calendar month(s).

**Condition 13: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement: 40CFR 63.463(e)(2)(v), Subpart T**

**Item 13.1:**

The Compliance Demonstration activity will be performed for the Facility.



Regulated Contaminant(s):  
CAS No: 0NY100-00-0 TOTAL HAP

**Item 13.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If a dwell is used to comply with the requirements in Subpart T, the owner/operator shall:

1) Determine the appropriate dwell time for each the of part or parts basket, or determine the maximum dwell time using the most complex part type or parts basket, as described in 40CFR63.465(d).

2) Ensure that, after cleaning, each part is held in the solvent cleaning machine freeboard area above the vapor zone for the dwell time determined for that particular part or parts basket, or for the maximum dwell time determined using the most complex parts type or basket.

On a monthly basis, the owner/operator shall determine the actual dwell time by measuring the period of time that parts are held within the freeboard area of the solvent cleaning machine after cleaning.

The owner/operator shall also maintain records of the tests required in 40CFR63.465(d) to determine the appropriate dwell time for each part or parts basket. These records shall be maintained in written or electronic form for the lifetime of the machine.

Monitoring Frequency: MONTHLY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2015.  
Subsequent reports are due every 6 calendar month(s).

**Condition 14: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.464(a)(1), Subpart T**

**Item 14.1:**

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

Emission Unit: 1-1080H  
Process: PB3 Emission Source: 00DG7

New York State Department of Environmental Conservation

Permit ID: 6-3016-00163/00003

Facility DEC ID: 6301600163



Emission Unit: 1-1200K

Process: GC3

Emission Source: 00DG3

**Item 14.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

To comply with the alternative standard, the owner or operator must:

1. Maintain a log of solvent additions and deletions for each solvent cleaning machine.
2. Ensure that emissions from each solvent cleaning machine are equal or less than 99 kilograms/square meter/month, as determined using the procedures in 40 CFR 63.465(b) and (c).

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: SOLVENT

Upper Permit Limit: 99 kilograms per month per square meter

Monitoring Frequency: MONTHLY

Averaging Method: 3-MONTH AVERAGE ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

**Condition 15: Compliance Demonstration**

**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement: 40CFR 63.465(b), Subpart T**

**Item 15.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: 1-1080H

Process: PB3

Emission Source: 00DG7

Emission Unit: 1-1200K

Process: GC3

Emission Source: 00DG3

**Item 15.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with 40 CFR 63.464



shall on the first operating day of every month ensure that the solvent cleaning machine system contains only clean liquid solvent. This includes, but is not limited to, fresh unused solvent, recycled solvent and used solvent that has been cleaned of soils. A fill line must be indicated during the first month the measurements are made. The solvent level within the machine must be returned to the same fill-line each month, immediately prior to calculating monthly emissions as specified in 40 CFR 63.465(c). The solvent cleaning machine does not have to be emptied and filled with fresh unused solvent prior to the calculations.

Monitoring Frequency: MONTHLY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2015.  
Subsequent reports are due every 6 calendar month(s).

**Condition 16: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement: 40CFR 63.465(c), Subpart T**

**Item 16.1:**

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

Emission Unit: 1-1080H  
Process: PB3 Emission Source: 00DG7

Emission Unit: 1-1200K  
Process: GC3 Emission Source: 00DG3

**Item 16.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with 40 CFR 63.464 shall on the first operating day of the month comply with the requirements specified in paragraphs (1) through (3) of this condition.

(1) Using the records of all solvent additions and deletions for the previous monthly reporting period required under 40 CFR 63.464(a), determine solvent emissions (E<sub>i</sub>) using Equation 2 for cleaning machines with a solvent/air interface and Equation 3 for cleaning machines without a solvent/air interface:



$$E_i = (SA_i - LSR_i - SSR_i) / AREA_i$$

(Eq. 2)

$$E_n = SA_i - LSR_i - SSR_i$$

(Eq. 3)

where:

$E_i$  = the total halogenated HAP solvent emissions from the solvent cleaning machine during the most recent monthly reporting period  $i$ , (kilograms of solvent per square meter of solvent/air interface area per month).

$E_n$  = the total halogenated HAP solvent emissions from the solvent cleaning machine during the most recent monthly reporting period  $i$ , (kilograms of solvent per month).

$SA_i$  = the total amount of halogenated HAP liquid solvent added to the solvent cleaning machine during the most recent monthly reporting period  $i$ , (kilograms of solvent per month).

$LSR_i$  = the total amount of halogenated HAP liquid solvent removed from the solvent cleaning machine during the most recent monthly reporting period  $i$ , (kilograms of solvent per month).

$SSR_i$  = the total amount of halogenated HAP solvent removed from the solvent cleaning machine in solid waste, obtained as described in paragraph (2) of this condition, during the most recent monthly reporting period  $i$ , (kilograms of solvent per month).

$AREA_i$  = the solvent/air interface area of the solvent cleaning machine (square meters).

(2) Determine  $SSR_i$  using either of the following methods.

(i) From tests conducted using EPA reference method 25d.

(ii) By engineering calculations included in the compliance report.

(3) Determine the monthly rolling average,  $EA$ , for the 3-month period ending with the most recent reporting period using Equation 4 for cleaning machines with a solvent/air interface or Equation 5 for cleaning machines without a solvent/air interface:

$$EA_i = (\text{Sum of } E_i \text{ from } j=1 \text{ to } j=3) / 3$$

(Eq. 4)

$$EA_n = (\text{Sum of } E_n \text{ from } j=1 \text{ to } j=3) / 3$$

(Eq. 5)



Where:

$E_{Ai}$  = the average halogenated HAP solvent emissions over the preceding 3 monthly reporting periods, (kilograms of solvent per square meter of solvent/air interface area per month).

$E_{An}$  = the average halogenated HAP solvent emissions over the preceding 3 monthly reporting periods (kilograms of solvent per month).

$E_i$  = halogenated HAP solvent emissions for each month (j) for the most recent 3 monthly reporting periods (kilograms of solvent per square meter of solvent/air interface area).

$E_n$  = halogenated HAP solvent emissions for each month (j) for the most recent 3 monthly reporting periods (kilograms of solvent per month).

$j=1$  = the most recent monthly reporting period.

$j=2$  = the monthly reporting period immediately prior to  $j=1$ .

$j=3$  = the monthly reporting period immediately prior to  $j=2$ .

Monitoring Frequency: MONTHLY

Averaging Method: 3-MONTH AVERAGE ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

**Condition 17: Dwell time determination**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.465(d), Subpart T**

**Item 17.1:**

This Condition applies to:

Emission Unit: 11080H

Process: PB3

Emission Source: 00DG4

Emission Unit: 11080H

Process: PB3

Emission Source: 00DG5

Emission Unit: 11090I

Process: IN4

Emission Source: 00DG1

Emission Unit: 11200K

Process: GC3

Emission Source: 00DG2

**Item 17.2:**



Each owner or operator of a batch vapor or in-line solvent cleaning machine using a dwell to comply with 40 CFR 63.463 shall determine the appropriate dwell time for each part or parts basket using the procedure specified in paragraphs (d)(1) and (d)(2).

(1) Determine the amount of time for the part or parts basket to cease dripping once placed in the vapor zone. The part or parts basket used for this determination must be at room temperature before being placed in the vapor zone.

(2) The proper dwell time for parts to remain in the freeboard area above the vapor zone is no less than 35 percent of the time determined in paragraph (1).

**Condition 18: PTE determination**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement: 40CFR 63.465(e), Subpart T**

**Item 18.1:**

An owner or operator of a source shall determine their potential to emit from all solvent cleaning operations, using the procedures described in paragraphs (1) through (3) of this condition. A facility's total potential to emit is the sum of the HAP emissions from all solvent cleaning operations, plus all HAP emissions from other sources within the facility.

(1) Determine the potential to emit for each individual solvent cleaning using the following equation.

$$PTE_i = (H_i)(W_i)(SAI_i)$$

Where:

$PTE_i$  = the potential to emit for solvent cleaning machine  $i$  (kilograms of solvent per year).

$H_i$  = hours of operation for solvent cleaning machine  $i$  (hours per year).

= 8760 hours per year, unless otherwise restricted by a Federally enforceable requirement.

$W_i$  = the working mode uncontrolled emission rate (kilograms per square meter per hour).

= 1.95 kilograms per square meter per hour for batch vapor and cold cleaning machines.

= 1.12 kilograms per square meter per hour for in-line cleaning machines.

$SAI_i$  = solvent/air interface area of solvent cleaning machine  $i$  (square meters). 40CFR 63.461 defines the solvent/air interface area for those machines that have a solvent/air interface.

Cleaning machines that do not have a solvent/air interface shall calculate a solvent/air interface area using the procedure in paragraph (2) of this condition.

(2) Cleaning machines that do not have a solvent/air interface shall calculate a solvent/air interface area using the following equation.

$$SAI = (2.20)(Vol)^{0.6}$$

Where:

$SAI$  = the solvent/air interface area (square meters).

$Vol$  = the cleaning capacity of the solvent cleaning machine (cubic meters).

(3) Sum the  $PTE_i$  for all solvent cleaning operations to obtain the total potential to emit for solvent cleaning operations at the facility.

**Condition 19: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**



**Applicable Federal Requirement: 40CFR 63.466(c), Subpart T**

**Item 19.1:**

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

Emission Unit: 1-1080H Process: PB3	Emission Source: 00DG4
Emission Unit: 1-1080H Process: PB3	Emission Source: 00DG5
Emission Unit: 1-1090I Process: IN4	Emission Source: 00DG1
Emission Unit: 1-1200K Process: GC3	Emission Source: 00DG2

**Item 19.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except as provided in 40 CFR 63.466(g), each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the equipment or idling standards in 40 CFR 63.463 shall monitor the hoist speed as described in paragraphs (1) through (4).

(1) The owner or operator shall determine the hoist speed by measuring the time it takes for the hoist to travel a measured distance. The speed is equal to the distance in meters divided by the time in minutes (meters per minute).

(2) The monitoring shall be conducted monthly. If after the first year, no exceedances of the hoist speed are measured, the owner or operator may begin monitoring the hoist speed quarterly.

(3) If an exceedance of the hoist speed occurs during quarterly monitoring, the monitoring frequency returns to monthly until another year of compliance without an exceedance is demonstrated.

(4) If an owner or operator can demonstrate to the Administrator's satisfaction in the initial compliance report that the hoist cannot exceed a speed of 3.4 meters per minute (11 feet per minute), the required monitoring frequency is quarterly, including during the first year of compliance.



Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

**Condition 20: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.466(d)(1), Subpart T**

**Item 20.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: 1-1080H

Process: PB3

Emission Source: 00DG4

Emission Unit: 1-1080H

Process: PB3

Emission Source: 00DG5

Emission Unit: 1-1090I

Process: IN4

Emission Source: 00DG1

Emission Unit: 1-1200K

Process: GC3

Emission Source: 00DG2

**Item 20.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except as provided in 40 CFR 63.466(g), each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the equipment standards in 40 CFR 63.463 (b)(1)(i), (b)(2)(i), (c)(1)(i), or (c)(2)(i) using a reduced room draft shall conduct monitoring and record the results as follows.

The owner or operator shall conduct an initial monitoring test of the windspeed and of room parameters, quarterly monitoring of windspeed, and weekly monitoring of room parameters as specified in paragraphs (i) and (ii).

(i) Measure the windspeed within 6 inches above the top of the freeboard area of the solvent cleaning machine using the procedure specified in paragraphs (A) through (D).

(A) Determine the direction of the wind current by slowly rotating a velometer or similar device until the maximum



speed is located.

(B) Orient a velometer in the direction of the wind current at each of the four corners of the machine.

(C) Record the reading for each corner.

(D) Average the values obtained at each corner and record the average wind speed.

(ii) Monitor on a weekly basis the room parameters established during the initial compliance test that are used to achieve the reduced room draft.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

**Condition 21: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.467(a), Subpart T**

**Item 21.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: 1-1080H  
Process: PB3

Emission Source: 00DG4

Emission Unit: 1-1080H  
Process: PB3

Emission Source: 00DG5

Emission Unit: 1-1090I  
Process: IN4

Emission Source: 00DG1

Emission Unit: 1-1200K  
Process: GC3

Emission Source: 00DG2

**Item 21.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator of a batch vapor or in-line solvent cleaning machine complying with the provisions in 40 CFR 63.463 shall maintain the following records for the lifetime of the machine:



- 1) Owner's manuals, or if not available, written maintenance and operating procedures for the solvent cleaning machine and control equipment.
- 2) The date of installation for the solvent cleaning machine and all of its control devices. If the exact date for installation is not known, a letter certifying that the machine and control devices were installed prior to November 29, 1993 will suffice.
- 3) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the idling emission limit standards of 40 CFR 63.463(b)(1)(ii), (b)(2)(ii), (c)(1)(ii), or (c)(2)(ii) shall maintain records of the initial performance test, including the idling emission rate and values of the monitoring parameters measured during the test.
- 4) Records of the halogenated HAP solvent content for each solvent used in a solvent cleaning machine subject to Subpart T.

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

**Condition 22: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement: 40CFR 63.467(b), Subpart T**

**Item 22.1:**

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

Emission Unit: 1-1080H Process: PB3	Emission Source: 00DG4
Emission Unit: 1-1080H Process: PB3	Emission Source: 00DG5
Emission Unit: 1-1090I Process: IN4	Emission Source: 00DG1
Emission Unit: 1-1200K Process: GC3	Emission Source: 00DG2

**Item 22.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:



The owner/operator of a batch vapor or in-line solvent cleaning machine complying with 40 CFR 63.463 shall maintain the following records for a period of five years.

- 1) The results of control device monitoring required under 40 CFR 63.466
- 2) Information on the actions taken to comply with 40 CFR 63.463(e) and (f) including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels.
- 3) Estimates of annual solvent consumption for each solvent cleaning machine.
- 4) If a carbon adsorber is used, records of the date and results of the weekly measurement of the halogenated HAP solvent concentration in the carbon adsorber exhaust required in 40 CFR 63.466(e).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2015.  
Subsequent reports are due every 12 calendar month(s).

**Condition 23: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement: 40CFR 63.468(f), Subpart T**

**Item 23.1:**

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

Emission Unit: 1-1080H Process: PB3	Emission Source: 00DG4
Emission Unit: 1-1080H Process: PB3	Emission Source: 00DG5
Emission Unit: 1-1090I Process: IN4	Emission Source: 00DG1
Emission Unit: 1-1200K Process: GC3	Emission Source: 00DG2

Regulated Contaminant(s):



CAS No: 0NY100-00-0 TOTAL HAP

**Item 23.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator of a batch vapor or in-line solvent cleaning machine complying with 63.463 shall submit an annual report by February 1 of the year following the one for which the reporting is being made. The report shall include the following:

- 1) A signed statement from the facility owner or the designee stating that "All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 63.463(d)(10)"
- 2) An estimate of solvent consumption for each solvent cleaning machine during the reporting period.

Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2015.  
Subsequent reports are due every 12 calendar month(s).

**Condition 24: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.468(h), Subpart T**

**Item 24.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 24.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Each owner or operator of a batch vapor or in-line solvent cleaning machine shall submit an exceedance report to the Administrator semiannually except when, the Administrator determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source or, an exceedance occurs. Once an exceedance has occurred the owner or operator shall follow a quarterly reporting format until a request to reduce reporting frequency under 40CFR 63.468(i) is approved. Exceedance reports shall be delivered or postmarked by the 30th day following the end of each



calendar half or quarter, as appropriate. The exceedance report shall include the applicable information in paragraphs (1) through (3) of this condition.

(1) Information on the actions taken to comply with 40 CFR 63.463 (e) and (f), if applicable. This information shall include records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels.

(2) If an exceedance has occurred, the reason for the exceedance and a description of the actions taken.

(3) If no exceedances of a parameter have occurred, or a piece of equipment has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

**Condition 25: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.471(b)(1), Subpart T**

**Item 25.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 25.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must maintain a log of solvent additions and deletions for each solvent cleaning machine.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

**Condition 26: Compliance Demonstration**



Effective between the dates of 07/23/2014 and 07/22/2024

Applicable Federal Requirement:40CFR 63.471(b)(2), Subpart T

**Item 26.1:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):  
CAS No: 000079-01-6 TRICHLOROETHYLENE

**Item 26.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

The owner or operator must ensure that the total emissions of trichloroethylene (TCE) used at the facility are equal to or less than the applicable facility-wide 12-month rolling total emission limit presented in Table 1 of 40CFR 63.471 as determined using the procedures in 40CFR 63.471(c).

Monitoring Frequency: MONTHLY  
Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2015.  
Subsequent reports are due every 6 calendar month(s).

**Condition 27: Compliance Demonstration**  
Effective between the dates of 07/23/2014 and 07/22/2024

Applicable Federal Requirement:40CFR 63.471(c), Subpart T

**Item 27.1:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):  
CAS No: 0NY100-00-0 TOTAL HAP

**Item 27.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

The owner or operator shall on the first operating day of every month, demonstrate compliance with the applicable facility-wide emission limit on a 12-month rolling total basis using the procedures in paragraphs 40CFR 63.471(c)(1) through (5). For purposes of this paragraph, EACH SOLVENT CLEANING MACHINE means each solvent cleaning machine that is part of an affected facility regulated by



this section.

(1) The owner or operator shall, on the first operating day of every month, ensure that each solvent cleaning machine system contains only clean liquid solvent. This includes, but is not limited to, fresh unused solvent, recycled solvent, and used solvent that has been cleaned of soiled materials. A fill line must be indicated during the first month the measurements are made. The solvent level within the machine must be returned to the same fill-line each month, immediately prior to calculating monthly emissions as specified in paragraphs (2) and (3). The solvent cleaning machine does not have to be emptied and filled with fresh unused solvent prior to the calculations.

(2) The owner or operator shall, on the first operating day of the month, using the records of all solvent additions and deletions for the previous month, determine solvent emissions (Eunit) from each solvent cleaning machine using equation 10 in 40CFR 63.471

(3) The owner or operator shall, on the first operating day of the month, determine SSR using the method specified in paragraph (i) or (ii).

(i) From tests conducted using EPA reference method 25d.

(ii) By engineering calculations included in the compliance report.

(4) The owner or operator shall on the first operating day of the month, after 12 months of emissions data are available, determine the 12-month rolling total emissions, ETunit, for the 12-month period ending with the most recent month using equation 11 in 40CFR 63.471

(5) The owner or operator shall on the first operating day of the month, after 12 months of emissions data are available, determine the 12-month rolling total emissions, ETfacility, for the 12-month period ending with the most recent month using equation 12 in 40CFR 63.471

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

**Condition 28: Compliance Demonstration**



Effective between the dates of 07/23/2014 and 07/22/2024

Applicable Federal Requirement:40CFR 63.471(e), Subpart T

**Item 28.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 28.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall maintain records specified in paragraphs (1) through (3) either in electronic or written form for a period of 5 years. For purposes of this paragraph, EACH SOLVENT CLEANING MACHINE means each solvent cleaning machine that is part of an affected facility regulated by this section.

(1) The dates and amounts of solvent that are added to each solvent cleaning machine.

(2) The solvent composition of wastes removed from each solvent cleaning machines as determined using the procedure described in paragraph (3).

(3) Calculation sheets showing how monthly emissions and the 12-month rolling total emissions from each solvent cleaning machine were determined, and the results of all calculations.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

**Condition 29: Compliance Demonstration**

Effective between the dates of 07/23/2014 and 07/22/2024

Applicable Federal Requirement:40CFR 63.471(h), Subpart T

**Item 29.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 29.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall submit a solvent emission



report every year. This solvent emission report shall contain the requirements specified in paragraphs (1) through (3).

(1) The average monthly solvent consumption for the affected facility in kilograms per month.

(2) The 12-month rolling total solvent emission estimates calculated each month using the method as described in paragraph (c).

(3) This report can be combined with the annual report required in 40CFR 63.468(f) and (g) into a single report for each facility.

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

**Condition 30: Affect source categories**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.11514(b), Subpart XXXXXX**

**Item 30.1:**

The provisions of 40 CFR 63, Subpart XXXXXX apply to each new and existing affected source listed below if the facility uses materials that contain or have the potential to emit metal fabrication or finishing metal HAP (MFHAP) in a concentration of greater than 0.1% by weight of cadmium, lead, chromium, or nickel or a concentration of greater than 1.0% by weight of manganese:

- 1) Dry abrasive blasting operations
- 2) Machining operations
- 3) Dry grinding and dry polishing with machines
- 4) Spray painting
- 5) Welding

If the facility performs spray painting which contains MFHAP with the concentrations listed above, then that affected source is not subject to the provisions in Subpart HHHHHH for Miscellaneous Surface Coating Operations.

**Condition 31: Date for existing sources**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.11514(c), Subpart XXXXXX**

**Item 31.1:**

An affected source is existing if the facility commenced construction or reconstruction of the affected source, as defined in §63.2, before April 3, 2008.

**Condition 32: Compliance date for existing sources**  
**Effective between the dates of 07/23/2014 and 07/22/2024**



**Applicable Federal Requirement:40CFR 63.11515(a), Subpart XXXXXX**

**Item 32.1:**

If the facility owns or operates an existing affected source, the facility must achieve compliance with the applicable provisions of Subpart XXXXXX by July 25, 2011.

**Condition 33: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.11516(a), Subpart XXXXXX**

**Item 33.1:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):  
CAS No: 0NY100-00-0 TOTAL HAP

**Item 33.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If the facility owns or operates a dry abrasive blasting affected source which consists of an abrasive blasting chamber that is totally enclosed and unvented, as defined in §63.11522, the facility must implement the following management practices to minimize emissions of metal fabrication HAPs (MFHAPs):

- 1- The facility must minimize dust generation during emptying of abrasive blasting enclosures; and
- 2- The facility must operate all equipment associated with dry abrasive blasting operations according to the manufacturer's instructions.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

**Condition 34: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.11517(a), Subpart XXXXXX**

**Item 34.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 34.2:**

Compliance Demonstration shall include the following monitoring:

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Facility DEC ID: 6301600163



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

Monitoring Description:

Visual determination of fugitive emissions must be performed according to the procedures of EPA Method 22, of 40 CFR part 60, Appendix A-7. The facility owner/operator must conduct the EPA Method 22 test while the affected source is operating under normal conditions. The duration of each EPA Method 22 test must be at least 15 minutes, and visible emissions will be considered to be present if they are detected for more than six minutes of the fifteen minute period.

Parameter Monitored: OPACITY

Upper Permit Limit: 0 percent

Reference Test Method: EPA Method 22

Monitoring Frequency: WHEN THE SOURCE IS OPERATING

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

**Condition 35: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.11519(a), Subpart XXXXXX**

**Item 35.1:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

**Item 35.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any existing facility subject to the requirements in 40 CFR 63, Subpart XXXXXX must submit an initial notification as described in §63.9(b) no later than July 25, 2011. The initial notification must contain the information listed in §63.11519(a)(1)(i)-(iv).

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 36: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.11519(b), Subpart XXXXXX**





**Applicable Federal Requirement: 40CFR 63.11507(g), Subpart  
WWWWWW**

**Item 38.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-1020B

**Item 38.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected new or existing plating and polishing process unit that contains, applies, or emits one or more of the plating and polishing metal HAP must implement the applicable management practices in paragraphs (1) through (12), as practicable.

- (1) Minimize bath agitation when removing any parts processed in the tank, as practicable except when necessary to meet part quality requirements.
- (2) Maximize the draining of bath solution back into the tank, as practicable, by extending drip time when removing parts from the tank; using drain boards (also known as drip shields); or withdrawing parts slowly from the tank, as practicable.
- (3) Optimize the design of barrels, racks, and parts to minimize dragout of bath solution (such as by using slotted barrels and tilted racks, or by designing parts with flow-through holes to allow the tank solution to drip back into the tank), as practicable.
- (4) Use tank covers, if already owned and available at the facility, whenever practicable.
- (5) Minimize or reduce heating of process tanks, as practicable (e.g., when doing so would not interrupt production or adversely affect part quality).
- (6) Perform regular repair, maintenance, and preventive maintenance of racks, barrels, and other equipment associated with affected sources, as practicable.
- (7) Minimize bath contamination, such as through the prevention or quick recovery of dropped parts, use of distilled/de-ionized water, water filtration, pre-cleaning of parts to be plated, and thorough rinsing of pre-treated parts to be plated, as practicable.

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(8) Maintain quality control of chemicals, and chemical and other bath ingredient concentrations in the tanks, as practicable.

(9) Perform general good housekeeping, such as regular sweeping or vacuuming, if needed, and periodic washdowns, as practicable.

(10) Minimize spills and overflow of tanks, as practicable.

(11) Use squeegee rolls in continuous or reel-to-reel plating tanks, as practicable.

(12) Perform regular inspections to identify leaks and other opportunities for pollution prevention.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

**Condition 39: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.11508(d)(1), Subpart**  
**WWWWWW**

**Item 39.1:**  
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-1020B

Regulated Contaminant(s):  
CAS No: 0NY100-00-0 TOTAL HAP

**Item 39.2:**  
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must always operate and maintain the affected source, including air pollution control equipment.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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



**Condition 40: Compliance Demonstration**  
Effective between the dates of 07/23/2014 and 07/22/2024

**Applicable Federal Requirement:40CFR 63.11508(d)(2), Subpart  
WWWWWW**

**Item 40.1:**  
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-1020B

**Item 40.2:**  
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

The owner or operator must prepare an annual compliance certification according to the requirements specified in 40 CFR 63.11509(c), "Notification, Reporting, and Recordkeeping," and keep it in a readily-accessible location for inspector review.

Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2015.  
Subsequent reports are due every 12 calendar month(s).

**Condition 41: Compliance Demonstration**  
Effective between the dates of 07/23/2014 and 07/22/2024

**Applicable Federal Requirement:40CFR 63.11508(d)(8), Subpart  
WWWWWW**

**Item 41.1:**  
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-1020B

**Item 41.2:**  
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

The owner or operator of an affected tank or other operation that is subject to the management practices specified in 40CFR 63.11507(g) must demonstrate continuous compliance according to paragraphs (i) and (ii).

(i) The owner or operator must implement the applicable management practices during all times that the affected tank or process is in operation.

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Permit ID: 6-3016-00163/00003

Facility DEC ID: 6301600163



(ii) The owner or operator must state in his/her annual compliance certification that he/she has implemented the applicable management practices, as practicable.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2015.

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

**Condition 42: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement:40CFR 63.11509(a), Subpart WWWWWW**

**Item 42.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-1020B

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

**Item 42.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected source, as defined in 40CFR 63.11505(a) must submit an Initial Notification in accordance with paragraphs (1) through (4) by the dates specified.

(1) The Initial Notification must include the information specified in 40CFR 63.9(b)(2)(i) through (iv) of the General Provisions.

(2) The Initial Notification must include a description of the compliance method (e.g., use of wetting agent/fume suppressant) for each affected source.

(3) If the owner or operator starts up his/her affected source on or before July 1, 2008, he/she must submit an Initial Notification not later than 120 calendar days after July 1, 2008.

(4) If the owner or operator starts up his/her new affected source after July 1, 2008, he/she must submit an Initial Notification not later than 120 calendar days after facility becomes subject to 40CFR 63 WWWWWW.



Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 43: Compliance Demonstration**  
Effective between the dates of 07/23/2014 and 07/22/2024

**Applicable Federal Requirement: 40CFR 63.11509(b), Subpart**  
WWWWWW

**Item 43.1:**  
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-1020B

Regulated Contaminant(s):  
CAS No: 0NY100-00-0 TOTAL HAP

**Item 43.2:**  
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

The owner or operator of an affected source must submit a Notification of Compliance Status in accordance with paragraphs (1) and (2).

(1) The Notification of Compliance Status must be submitted before the close of business on the compliance date specified in 40CFR 63.11506.

(2) The Notification of Compliance Status must include the items specified in paragraphs (i) through (iv).

(i) List of affected sources and the plating and polishing metal HAP used in, or emitted by, those sources.

(ii) Methods used to comply with the applicable management practices and equipment standards.

(iii) Description of the capture and emission control systems used to comply with the applicable equipment standards.

(iv) Statement by the owner or operator of the affected source as to whether the source is in compliance with the applicable standards or other requirements.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION



**Condition 44: Compliance Demonstration**  
Effective between the dates of 07/23/2014 and 07/22/2024

**Applicable Federal Requirement:40CFR 63.11509(c)(6), Subpart  
WWWWWW**

**Item 44.1:**  
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-1020B

Regulated Contaminant(s):  
CAS No: 0NY100-00-0 TOTAL HAP

**Item 44.2:**  
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

The owner or operator of an affected tank that is subject to the management practices specified in 40CFR 63.11507(g) must state in his/her annual compliance certification that he/she has implemented the applicable management practices, as practicable.

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 45: Compliance Demonstration**  
Effective between the dates of 07/23/2014 and 07/22/2024

**Applicable Federal Requirement:40CFR 63.11509(c)(7), Subpart  
WWWWWW**

**Item 45.1:**  
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-1020B

Regulated Contaminant(s):  
CAS No: 0NY100-00-0 TOTAL HAP

**Item 45.2:**  
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

Each annual compliance report must be prepared no later than January 31 of the year immediately following the reporting period and kept in a readily-accessible location for inspector review. If a deviation has occurred during the year, each annual compliance report must be submitted along with the deviation report, and postmarked or



delivered no later than January 31 of the year immediately following the reporting period.

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 46: Compliance Demonstration**  
Effective between the dates of 07/23/2014 and 07/22/2024

**Applicable Federal Requirement:40CFR 63.11509(d), Subpart  
WWWWWW**

**Item 46.1:**  
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-1020B

**Item 46.2:**  
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

Any deviations from the compliance requirements specified in 40CFR 63 WWWWWW which occurred at an affected source during the year, must reported by the owner or operator, along with the corrective action taken, and submit this report to the delegated authority.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2015.  
Subsequent reports are due every 12 calendar month(s).

**Condition 47: Compliance Demonstration**  
Effective between the dates of 07/23/2014 and 07/22/2024

**Applicable Federal Requirement:40CFR 63.11509(e), Subpart  
WWWWWW**

**Item 47.1:**  
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-1020B

**Item 47.2:**  
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

The owner or operator must keep the records specified in paragraphs (1) through (3).



- (1) A copy of any Initial Notification and Notification of Compliance Status that was submitted and all documentation supporting those notifications.
- (2) The records specified in 40CFR 63.10(b)(2)(i) through (iii) and (xiv) of the General Provisions.
- (3) The records required to show continuous compliance with each management practice and equipment standard that applies to the owner or operator, as specified in 40CFR 63.11508(d).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2015.  
Subsequent reports are due every 12 calendar month(s).

**Condition 48: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable Federal Requirement: 40CFR 63.11509(f), Subpart WWWWWW**

**Item 48.1:**  
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-1020B

Regulated Contaminant(s):  
CAS No: 0NY100-00-0 TOTAL HAP

**Item 48.2:**  
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

The owner or operator must keep each record for a minimum of 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. He/she must keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40CFR 63.10(b)(1). He/she may keep the records offsite for the remaining 3 years.

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 49: Compliance Demonstration**  
**Effective between the dates of 07/23/2014 and 07/22/2024**



**Applicable Federal Requirement:6 NYCRR Part 226**

**Item 49.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-1080H

Process: PB5

Emission Source: 00CC1

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 49.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A person conducting solvent metal cleaning must:

(a) store solvent in covered containers and transfer or dispose of waste solvent in such a manner that less than 20 percent of the waste solvent (by weight) can evaporate into the atmosphere;

(b) maintain equipment to minimize leaks and fugitive emissions;

(c) display at the equipment location a conspicuous summary of proper operating procedures consistent with minimizing emissions of VOCs;

(d) keep the degreaser cover closed except when parts are being placed into or being removed from the degreaser, the cover needs to be open in order to add or remove solvent from the degreaser, no solvent is in the degreaser, or manually cleaning metal parts in a cold cleaning degreaser;

(e) create and retain a record of solvent consumption for five years. This record must be made available to the department upon request;

(f) not clean sponges, fabric, wood, leather, paper products and other absorbent materials in a degreaser; and

(g) if using a cold cleaning degreaser that is subject to section 226.3(a)(4) of this Part, retain a record of the following three items for five years and provide these records to the department upon request. An invoice, a bill of sale, a certificate covering multiple sales, a material safety data sheet (MSDS), or other appropriate

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documentation acceptable to the department may be used to comply with this requirement:

- (1) the name and address of the solvent supplier;
- (2) the type of solvent including the product or vendor identification number; and
- (3) the vapor pressure of the solvent measured in mm Hg at 20°C (68°F).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY



**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 facility owners and/or operators keep records pursuant to compliance with the requirements of 6 NYCRR Subpart 201-5.4, and/or the emission capping requirements of 6 NYCRR Subpart 201-7, the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Facility owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department.

**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 50: Contaminant List**  
**Effective between the dates of 07/23/2014 and 07/22/2024**



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

**Item 50.1:**

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

CAS No: 000079-01-6  
Name: TRICHLOROETHYLENE

CAS No: 0NY100-00-0  
Name: TOTAL HAP

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

**Condition 51: Malfunctions and start-up/shutdown activities  
Effective between the dates of 07/23/2014 and 07/22/2024**

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

**Item 51.1:**

(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.

(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 52: Emission Unit Definition**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

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

**Item 52.1:**

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

Emission Unit: 1-1010A

Emission Unit Description:

Bond coating (Bonding) is conducted in this emission unit. Metal pieces are bonded together using a flux material and heating operations. Metal pieces are wipe cleaned before bonding.

Building(s): 1

**Item 52.2:**

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

Emission Unit: 1-1020B

Emission Unit Description:

Copper Tapping Operation is conducted in the emission unit. Copper wire is run through a flux bath and then through a molten metal bath thereby coating the surface.

Building(s): 2

**Item 52.3:**

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

Emission Unit: 1-1040D

Emission Unit Description:

Alloy melting operations are conducted in this emission unit. Four melting stations with hoods for melting high temperature alloys.

Building(s): 1

**Item 52.4:**

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

Emission Unit: 1-1080H

Emission Unit Description:

Metal Fabrication is conducted in this emission unit making products that are lead free or contain lead. Department produces wires, ribbons, foils and stamped molded or otherwise preformed shapes. Materials are rolled and lubricated prior to additional manufacturing steps.



Building(s): 1

**Item 52.5:**

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

Emission Unit: 1-1090I

Emission Unit Description:

Metal Fabrication is conducted in this emission unit making products that contain Indium area. Department produces wires, ribbons, foils and other stamped materials. Materials are rolled and cleaned and dried.

Building(s): 1

**Item 52.6:**

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

Emission Unit: 1-1100J

Emission Unit Description:

Extrusion department emission unit for extrusion presses that extrude metal ribbon and/or wires. Unit also includes alloy melting using an induction furnace.

Building(s): 1

**Item 52.7:**

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

Emission Unit: 1-1200K

Emission Unit Description:

Metal Fabrication is conducted in this emission unit making products that contain gold. Department produces ribbons and preforms. Materials are punched, cleaned, and rolled in this work area.

Building(s): 1

**Condition 53: Renewal deadlines for state facility permits  
Effective between the dates of 07/23/2014 and 07/22/2024**

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

**Item 53.1:**

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 54: Compliance Demonstration  
Effective between the dates of 07/23/2014 and 07/22/2024**

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

**Item 54.1:**



The Compliance Demonstration activity will be performed for the Facility.

**Item 54.2:**

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 6  
State Office Building  
317 Washington Ave.  
Watertown, NY 13601

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 55: Visible Emissions Limited**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

**Applicable State Requirement:6 NYCRR 211.2**

**Item 55.1:**

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 56: Emission Point Definition By Emission Unit**  
**Effective between the dates of 07/23/2014 and 07/22/2024**

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

**Item 56.1:**

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

Emission Unit: 1-1010A

Emission Point: BP001

Height (ft.): 35

Diameter (in.): 12

NYTMN (km.): 4770.77

NYTME (km.): 476.98

Building: 1

**Item 56.2:**

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



Emission Unit: 1-1020B

Emission Point: BP002  
Height (ft.): 35 Diameter (in.): 13  
NYTMN (km.): 4770.749 NYTME (km.): 476.892 Building: 2

**Item 56.3:**

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

Emission Unit: 1-1040D

Emission Point: BP004  
Height (ft.): 27 Diameter (in.): 20  
NYTMN (km.): 4770.734 NYTME (km.): 476.966 Building: 1

**Item 56.4:**

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

Emission Unit: 1-1080H

Emission Point: BP008  
Height (ft.): 40 Diameter (in.): 15  
NYTMN (km.): 4770.748 NYTME (km.): 476.994 Building: 1

**Item 56.5:**

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

Emission Unit: 1-1090I

Emission Point: BP010  
Height (ft.): 47 Diameter (in.): 16  
NYTMN (km.): 4770.744 NYTME (km.): 476.935 Building: 1

**Item 56.6:**

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

Emission Unit: 1-1100J

Emission Point: BP011  
Height (ft.): 32 Diameter (in.): 18  
NYTMN (km.): 4770.771 NYTME (km.): 476.924 Building: 1

**Item 56.7:**

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

Emission Unit: 1-1200K

Emission Point: BP012  
Height (ft.): 27 Diameter (in.): 22  
NYTMN (km.): 4770.747 NYTME (km.): 476.864 Building: 1

**Condition 57: Process Definition By Emission Unit**



Effective between the dates of 07/23/2014 and 07/22/2024

Applicable State Requirement:6 NYCRR Subpart 201-5

**Item 57.1:**

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

Emission Unit: 1-1010A

Process: BCD

Process Description:

Bond coating process-metal pieces are bonded together during hot plate activities. Other heating operations are conducted using various metal substrates. Flux material is used in the bonding activities.

Emission Source/Control: 00BC1 - Process

**Item 57.2:**

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

Emission Unit: 1-1020B

Process: WCT

Process Description:

Copper tabbing process - copper wire is run through a flux bath and then through a molten metal bath thereby coating the surface. Flux is heated by an electric bath and the molten metal by a melt pot using natural gas combustion.

Emission Source/Control: 00CT2 - Control

Control Type: MAT OR PANEL FILTER

Emission Source/Control: 00CT1 - Process

**Item 57.3:**

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

Emission Unit: 1-1040D

Process: MMI

Process Description:

Alloy melting process- This is a 4-station system with two gas fired kettles and 2 electric kettles. Each melt station is individually charged with different percentages of alloys for each melting operation. This process contains 3-1000lb melting pots and a 2000lb buzzer melt system.

Emission Source/Control: 00A01 - Process

Emission Source/Control: 00A04 - Process

Emission Source/Control: 00AE1 - Process



Emission Source/Control: 00AE2 - Process

**Item 57.4:**

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

Emission Unit: 1-1080H

Process: PB1

Process Description:

Rolling mill operation- material is rolled. Process uses a lubriant (mineral spirits) which is applied to a wiper at the mill.

Emission Source/Control: 00RM1 - Process

Emission Source/Control: 00RM2 - Process

**Item 57.5:**

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

Emission Unit: 1-1080H

Process: PB2

Process Description:

Punch press operations-consisting of 4 punch press machines- which uses a lubricant for punching parts.

Emission Source/Control: 00PD1 - Process

Emission Source/Control: 00PD2 - Process

Emission Source/Control: 00PD3 - Process

Emission Source/Control: 00PD4 - Process

**Item 57.6:**

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

Emission Unit: 1-1080H

Process: PB3

Process Description:

Cleaning and Drying ovens and parts cleaned in trichloroethylene. Three vapor degeasers, one is for lead free parts, one is for lead containing parts , and one is for ribbon. Two ovens for lead free parts, and Two ovens for lead containing parts.

Emission Source/Control: 00D01 - Process

Emission Source/Control: 00D02 - Process

Emission Source/Control: 00D03 - Process



Emission Source/Control: 00D04 - Process

Emission Source/Control: 00DG4 - Process

Emission Source/Control: 00DG5 - Process

Emission Source/Control: 00DG7 - Process

**Item 57.7:**

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

Emission Unit: 1-1080H

Process: PB4

Process Description:

Decanting stations with enclosed hoods for decanting solvent and tranfering new solvent (trichloroethylene into beakers & not in storage area) used for filling containers, observations and other small tasks. One for lead free parts one for lead parts.

Emission Source/Control: 00SS1 - Process

Emission Source/Control: 00SS2 - Process

**Item 57.8:**

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

Emission Unit: 1-1080H

Process: PB5

Process Description:

Cleaning operation-cleaning of small orders of parts that need special treatment and handling of cleaning in trichloroethylene.

Emission Source/Control: 00CC1 - Process

**Item 57.9:**

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

Emission Unit: 1-1090I

Process: IN1

Process Description:

Rolling mill operation-rolls Indium based material. There are three mills in this procees unit. This operation uses a lubricant (mineral spirits) which is applied by a wiper at the mill.

Emission Source/Control: 00RM3 - Process

Emission Source/Control: 00RM4 - Process

Emission Source/Control: 00RM5 - Process



**Item 57.10:**

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

Emission Unit: 1-1090I

Process: IN2

Process Description:

Extrusion Press operations-extrusion of wire or ribbon from alloy sludge material Lubricant is used in the equipment.

Emission Source/Control: 00EXA - Process

**Item 57.11:**

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

Emission Unit: 1-1090I

Process: IN3

Process Description:

Punch press operations-parts are punched out, and use a lubricant for operation. 3 presses under this process.

Emission Source/Control: 00PD5 - Process

Emission Source/Control: 00PD6 - Process

Emission Source/Control: 00PD7 - Process

**Item 57.12:**

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

Emission Unit: 1-1090I

Process: IN4

Process Description:

Cleaning and Drying oven operation. Oven drying of parts cleaned in trichloroethylene degreaser.

Emission Source/Control: 00D05 - Process

Emission Source/Control: 00DG1 - Process

**Item 57.13:**

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

Emission Unit: 1-1090I

Process: IXP

Process Description:

Extrusion operation. Extrusion press is used to extrude materials of various shapes and sizes. Lubricant is used during the extruding process.

Emission Source/Control: 00EXP - Process



**Item 57.14:**

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

Emission Unit: 1-1100J

Process: EXP

Process Description:

Extruding operation. Area consists of extrusion press machines of numerous types and sizes. there are 5 extruders, and lubricant is used.

Emission Source/Control: C1001 - Process

Emission Source/Control: C2501 - Process

Emission Source/Control: C2502 - Process

Emission Source/Control: C2503 - Process

Emission Source/Control: S2501 - Process

**Item 57.15:**

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

Emission Unit: 1-1100J

Process: IDT

Process Description:

Alloying melting operation. Induction melting equipment is used. Metal alloy is melted and poured out into molds. Numerous alloy mixtures are melted. daily.

Emission Source/Control: 00THM - Process

**Item 57.16:**

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

Emission Unit: 1-1200K

Process: GC1

Process Description:

Punch press operation. Punch press machines for gold material. A lubricant is used for punching out parts.

Emission Source/Control: 00GP1 - Process

Emission Source/Control: 00GP2 - Process

Emission Source/Control: 00GP3 - Process

Emission Source/Control: 00GP4 - Process

**Item 57.17:**

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

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Emission Unit: 1-1200K

Process: GC2

Process Description:

Rolling mill operation. Rolling mill machines to process material made of gold. Lubricant (mineral spirits) is used on the rollers during processing

Emission Source/Control: 00GRM - Process

**Item 57.18:**

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

Emission Unit: 1-1200K

Process: GC3

Process Description:

Cleaning and Drying oven operation. Oven used for drying parts that have been cleaned in trichloroethylene solvent degreaser.

Emission Source/Control: 00DG2 - Process

Emission Source/Control: 00DG3 - Process

Emission Source/Control: 00GOT - Process

