PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 6-3016-00032/00077
Mod 0 Effective Date: 03/10/2003 Expiration Date: No expiration date.

Mod 1 Effective Date: 02/09/2009 Expiration Date: No expiration date.

Permit Issued To:INDIUM CORP OF AMERICA
PO BOX 269
UTICA, NY 13503-0269

Contact: NANCY L SWARTS
INDIUM CORPORATION OF AMERICA
1676 LINCOLN AVE
UTICA, NY 13502
(315) 793-8200

Facility: INDIUM CORP OF AMERICA AT 1676 LINCOLN
1676 LINCOLN AVE
UTICA, NY 13503

Contact: NANCY L SWARTS
INDIUM CORPORATION OF AMERICA
1676 LINCOLN AVE
UTICA, NY 13502
(315) 793-8200

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 - REG 6
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
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Submission of Applications for Permit Modification or Renewal -REGION 6 HEADQUARTERS
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DEC GENERAL CONDITIONS
****** General Provisions ******
GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 2: Facility Inspection by the Department
Applicable State Requirement: ECL 19-0305

Item 2.1:
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 2.2:
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 2.3:
A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 1: Relationship of this Permit to Other Department Orders and Determinations
Applicable State Requirement: ECL 3-0301.2(m)

Item 1.1:
Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

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

Item 1-1.1:
The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 1-1.2:
The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

Item 1-1.3:
Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be

submitted prior to actual transfer of ownership.

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

Item 3.1:
The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:
The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

Item 3.3:
Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

Condition 1-2: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6NYCRR 621.13

Item 1-2.1:
The Department reserves the right to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

a) materially false or inaccurate statements in the permit application or supporting papers;

b) failure by the permittee to comply with any terms or conditions of the permit;

c) exceeding the scope of the project as described in the permit application;

d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;

e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

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

Item 4.1:
The Department reserves the right to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

a) materially false or inaccurate statements in the permit application or supporting papers;

c) exceeding the scope of the project as described in the permit application;

d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;

e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

****** Facility Level ******

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

Expired by Mod No: 1

Item 5.1:

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

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

Condition 1-3: Submission of application for permit modification or renewal-REGION 6 SUBOFFICE - UTICA
Applicable State Requirement: 6NYCRR 621.6(a)

Item 1-3.1:

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

Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY PERMIT

IDENTIFICATION INFORMATION

Permit Issued To:INDIUM CORP OF AMERICA
PO BOX 269
UTICA, NY 13503-0269

Facility: INDIUM CORP OF AMERICA AT 1676 LINCOLN
1676 LINCOLN AVE
UTICA, NY 13503

Authorized Activity By Standard Industrial Classification Code:
3499 - FABRICATED METAL PRODUCTS, NEC

Mod 0 Permit Effective Date: 03/10/2003 Permit Expiration Date: No expiration date.

Mod 1 Permit Effective Date: 02/09/2009 Permit Expiration Date: No expiration date.

LIST OF CONDITIONS

DEC GENERAL CONDITIONS

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Permit Modifications, Suspensions and Revocations by the Department

Facility Level

Submission of Applications for Permit Modification or Renewal -REGION 6 HEADQUARTERS
Submission of application for permit modification or renewal-REGION 6 SUBOFFICE - UTICA

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

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*1-2 6NYCRR 201-7.2: Capping Monitoring Condition
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1-4 6NYCRR 212.4(c): Compliance Demonstration
1-5 6NYCRR 212.6(a): Compliance Demonstration

Emission Unit Level

EU=1-0003C

9 40CFR 63.460(a), Subpart T: Applicability statement
10 40CFR 63.460(b), Subpart T: Part 63 General Provisions requirements
11 40CFR 63.463, Subpart T: Batch vapor and In-line machines: base design requirements
1-6 40CFR 63.463(b)(1)(i), Subpart T: Compliance Demonstration
13 40CFR 63.463(d), Subpart T: Work practice standards for batch vapor degreasers
14 40CFR 63.463(e)(2)(i), Subpart T: Compliance Demonstration
15 40CFR 63.463(e)(2)(iii), Subpart T: Compliance Demonstration
16 40CFR 63.463(e)(2)(iv), Subpart T: Compliance Demonstration
17 40CFR 63.465(e), Subpart T: PTE determination
18 40CFR 63.466(a), Subpart T: Compliance Demonstration
19 40CFR 63.467(a), Subpart T: Compliance Demonstration
20 40CFR 63.467(b), Subpart T: Compliance Demonstration
21 40CFR 63.468(f), Subpart T: Compliance Demonstration
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STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

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26 6NYCRR 201-1.4: Unavoidable noncompliance and violations
27 6NYCRR 201-5: Emission Unit Definition
28 6NYCRR 211.2: Air pollution prohibited

Emission Unit Level

29 6NYCRR 201-5: Emission Point Definition By Emission Unit
30 6NYCRR 201-5: Process Definition By Emission Unit

NOTE: * preceding the condition number indicates capping.

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 - 6NYCRR Part 200.5**

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation.
Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Item G: **Prohibition of Reintroduction of Collected Contaminants to the Air - 6NYCRR Part 201-1.8**
No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Item H: **Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR Part 201-3.2(a)**
The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item I: **Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR Part 201-3.3(a)**
The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

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

An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air

pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6NYCRR Part 202-1.

Item K: **Visible Emissions Limited - 6 NYCRR Part 211.3**
Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

Item L: **Open Fires - 6 NYCRR Part 215**
No person shall burn, cause, suffer, allow or permit the burning in an open fire of garbage, rubbish for salvage, or rubbish generated by industrial or commercial activities.

Item M: **Permit Exclusion - ECL 19-0305**
The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item N: **Federally Enforceable Requirements - 40 CFR 70.6(b)**
All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

FEDERAL APPLICABLE REQUIREMENTS

The following conditions are federally enforceable.

Condition 1-1: Facility Permissible Emissions
Effective between the dates of 02/09/2009 and Permit Expiration Date

Applicable Federal Requirement:6NYCRR 201-7.2

Item 1-1.1:
The sum of emissions from the emission units specified in this permit shall not equal or exceed the following
Potential To Emit (PTE) rate for each regulated contaminant:

CAS No: 000079-01-6 (From Mod 1) PTE: 18,000 pounds per year
Name: TRICHLOROETHYLENE

CAS No: 0NY100-00-0 (From Mod 1) PTE: 45,000 pounds per year
Name: HAP

Condition 1-2: Capping Monitoring Condition
Effective between the dates of 02/09/2009 and Permit Expiration Date

Applicable Federal Requirement:6NYCRR 201-7.2

Item 1-2.1:
Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6NYCRR 201-6.1

Item 1-2.2:
Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 1-2.3:
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.

Item 1-2.4:
On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an

applicable requirement.

Item 1-2.5:
The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 1-2.6:
The Compliance Demonstration activity will be performed for the Facility.

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

Item 1-2.7:
Compliance Demonstration shall include the following monitoring:

Capping: Yes
Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE
Monitoring Description:
Total HAP emisssions from this facility, shall not exceed 45000 lbs/yr or 22.5 tons per year during any consecutive 12 month period. Verification of monthly total HAP emissions will be determined via calculations using emission factors accetpable to this Department. Facility shall provide a report, with the required calculations and demostrations of compliance with this total HAP limit, to the NYSDEC Region 6 Office by the reporting deadlines contained below

Parameter Monitored: HAP
Upper Permit Limit: 22.5 tons per year
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2010.
Subsequent reports are due every 12 calendar month(s).

Condition 1-3: Capping Monitoring Condition
Effective between the dates of 02/09/2009 and Permit Expiration Date

Applicable Federal Requirement:6NYCRR 201-7.2

Item 1-3.1:
Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6NYCRR 201-6.1

Item 1-3.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 1-3.3:
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.

Item 1-3.4:
On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 1-3.5:
The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 1-3.6:
The Compliance Demonstration activity will be performed for the Facility.

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

Item 1-3.7:
Compliance Demonstration shall include the following monitoring:

Capping: Yes
Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE
Monitoring Description:
Total emissions of trichloroethylene (TCE) will be capped at 18000 pounds per year (9 tpy), for the consecutive 12 month period. Total TCE emissions are calculated based on solvent consumption and use records. Solvent usage records are currently maintained on a quarterly basis for Neshap requirments. Facility shall report the total emissions of trichloroethylene to NYSDEC Region 6 Office by the reporting deadline stated below

Parameter Monitored: TRICHLOROETHYLENE
Upper Permit Limit: 9 tons per year
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2010.
Subsequent reports are due every 12 calendar month(s).

Condition 1-4: Compliance Demonstration
Effective between the dates of 02/09/2009 and Permit Expiration Date

Applicable Federal Requirement:6NYCRR 212.4(c)

Item 1-4.1:
The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: 1-0002F

Emission Unit: 1-0004R

Emission Unit: 1-0001A

Item 1-4.2:
Compliance Demonstration shall include the following monitoring:

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

Emissions of solid particulates are limited to less than 0.050 grains of particulates per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis. 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
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2009.
Subsequent reports are due every 6 calendar month(s).

Condition 1-5: Compliance Demonstration
Effective between the dates of 02/09/2009 and Permit Expiration Date

Applicable Federal Requirement:6NYCRR 212.6(a)

Item 1-5.1:
The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: 1-0002F

Emission Unit: 1-0004R

Emission Unit: 1-0001A

Item 1-5.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE
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. Compliance with this requirement shall be determined by the facility owner/operator conducting a daily survey of visible emissions whenever a process is in operation. If any visible emissions are identified, corrective action is required. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation.

Records of these observations, investigations and corrective actions will be kept on-site in a format acceptable to the Department.

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent

Reference Test Method: EPA RM 9
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2009.
Subsequent reports are due every 6 calendar month(s).

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

Condition 9: Applicability statement
Effective between the dates of 03/10/2003 and Permit Expiration Date

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

Item 9.1:
This Condition applies to Emission Unit: 1-0003C

Item 9.2:
The provisions of this subpart apply to each individual batch vapor, in-line vapor, in-line cold, and batch cold solvent cleaning machine that uses any solvent containing methylene chloride (CAS No. 75-09-2), perchloroethylene (CAS No. 127-18-4), trichlororethylene (CAS No. 79-01-6), 1,1,1-trichloroethane (CAS No. 71-55-6), carbon tetrachloride (CAS No. 56-23-5) or chloroform (CAS No. 67-66-3), or any combination of these HAP solvents, in a total concentration greater than 5 percent by weight, as a cleaning and/or drying agent. The concentration of these solvents may be determined using EPA test method 18, material safety data sheets, or engineering calculations. Wipe cleaning activities, such as using a rag containing halogenated solvent or a spray cleaner containing halogenated solvent are not covered under the provisions of this subpart.

Condition 10: Part 63 General Provisions requirements
Effective between the dates of 03/10/2003 and Permit Expiration Date

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

Item 10.1:
This Condition applies to Emission Unit: 1-0003C

Item 10.2:
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 11: Batch vapor and In-line machines: base design requirements
Effective between the dates of 03/10/2003 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.463, Subpart T

Item 11.1:
This Condition applies to Emission Unit: 1-0003C

Item 11.2:
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 1-6: Compliance Demonstration
Effective between the dates of 02/09/2009 and Permit Expiration Date

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

Replaces Condition(s) 12

Item 1-6.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-0003C

Item 1-6.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

Each owner or operator of a batch solvent vapor cleaning machine with a solvent/air interface of 1.21 square meters or less shall comply with the requirements specified in §63.463(b)(1)(i).

Employ Option 3 of the possible control combinations listed in Table 1.

Working-mode cover and freeboard refrigeration device

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

Condition 13: Work practice standards for batch vapor degreasers
Effective between the dates of 03/10/2003 and Permit Expiration Date

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

Item 13.1:
This Condition applies to Emission Unit: 1-0003C

Item 13.2:
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 this subpart.

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.

Condition 14: Compliance Demonstration
Effective between the dates of 03/10/2003 and Permit Expiration Date

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

Item 14.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-0003C

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

Item 14.2:
Compliance Demonstration shall include the following monitoring:

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

If a freeboard refrigeration device is used to comply with Subpart T, the chilled air blanket temperature (in deg. F), measured at the center of the air blanket with a thermometer or thermocouple, must be no greater than 30 percent of the solvent boiling point.

The temperature of the air blanket above the vapor zone must be measured weekly while the machine is idling.

An exceedance has occurred if the temperature, as monitored, exceeds the 30% threshold and is not corrected within 15 days of detection. Adjustments or repairs shall be made to the solvent cleaning system or control device to reestablish required levels. The temperature shall be remeasured immediately upon adjustment or repair and demonstrated to be within 30% of the solvent boiling point.

Records of the weekly temperature measurement are to be kept on site and shall be maintained in either electronic or written form for a period of five years.

Parameter Monitored: TEMPERATURE
Upper Permit Limit: 57 degrees Fahrenheit
Monitoring Frequency: WEEKLY
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 7/30/2003.
Subsequent reports are due every 6 calendar month(s).

Condition 15: Compliance Demonstration
Effective between the dates of 03/10/2003 and Permit Expiration Date

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

Item 15.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-0003C

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

Item 15.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
If a working-mode cover is used to comply with Subpart T, the owner/operator shall:

1) Ensure that the cover opens only for part entrance and removal and completely covers the cleaning machine openings when closed. An exceedance has occurred if this requirement is not met.

2) Ensure that the working-mode cover is maintained free of cracks, holes, and other defects. An exceedance has occurred if this requirement is not met and is not repaired within 15 days.

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 7/30/2003.
Subsequent reports are due every 6 calendar month(s).

Condition 16: Compliance Demonstration
Effective between the dates of 03/10/2003 and Permit Expiration Date

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

Item 16.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-0003C

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

Item 16.2:
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 40CFR63 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 7/30/2003.
Subsequent reports are due every 6 calendar month(s).

Condition 17: PTE determination
Effective between the dates of 03/10/2003 and Permit Expiration Date

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

Item 17.1:
This Condition applies to Emission Unit: 1-0003C

Item 17.2:
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 Equation 6.

$$PTE_i = (H_i)(W_i)(SAI_i) \qquad \text{(Eq. 6)}$$

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 63.46 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 Equation 7.

$$SAI = (2.20)(Vol)\exp(0.6) \qquad \text{(Eq. 7)}$$

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 18: Compliance Demonstration
Effective between the dates of 03/10/2003 and Permit Expiration Date

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

Item 18.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-0003C

Item 18.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The owner or operator of batch vapor or in-line cleaning machines shall monitor and record the temperature of the freeboard refrigeration device. This monitoring shall be done on a weekly basis and will be performed as follows: A thermometer or thermocouple shall be used to measure the temperature at the center of the air blanket of the freeboard refrigeration device during idling mode. This temperature shall not be greater than 30% of the solvent's

boiling point.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DEGREASING UNITS
Parameter Monitored: TEMPERATURE
Upper Permit Limit: 30 percent
Monitoring Frequency: WEEKLY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 19: Compliance Demonstration
Effective between the dates of 03/10/2003 and Permit Expiration Date

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

Item 19.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-0003C

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

Item 19.2:
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 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) Records of the halogenated HAP solvent content for each solvent used in a solvent cleaning machine subject to Subpart T.

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 20: Compliance Demonstration
Effective between the dates of 03/10/2003 and Permit Expiration Date

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

Item 20.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-0003C

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

Item 20.2:
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 maintain the following records for a period of five years.

1) The results of control device monitoring required under 63.466

2) Information on the actions taken to comply with 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 63.466(e).

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 21: Compliance Demonstration
Effective between the dates of 03/10/2003 and Permit Expiration Date

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

Item 21.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-0003C

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

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 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 1/30/2004.
Subsequent reports are due every 12 calendar month(s).

Condition 1-7: Compliance Demonstration
Effective between the dates of 02/09/2009 and Permit Expiration Date

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

Replaces Condition(s) 22

Item 1-7.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-0003C

Item 1-7.2:
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 §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 7/30/2009.
Subsequent reports are due every 6 calendar month(s).

STATE ONLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS
This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: **Public Access to Recordkeeping for Facilities With State Facility Permits - 6NYCRR Part 201-1.10(a)**
Where emission source owners and/or operators keep records pursuant to compliance with the operational flexibility requirements of 6 NYCRR Subpart 201-5.4(b)(1) , and/or the emission capping requirements of 6 NYCRR Subparts 201-7.2(d), 201-7.3(f), 201-7.3(g), 201-7.3(h)(5), 201-7.3(i) and 201-7.3(j), the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Emission source owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department of receipt of the request.

Item B: **General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5**
Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

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

STATE ONLY APPLICABLE REQUIREMENTS
The following conditions are state only enforceable.

Condition 25: Contaminant List
Effective between the dates of 03/10/2003 and Permit Expiration Date

Applicable State Requirement:ECL 19-0301

Item 25.1:
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: HAP

Condition 26: Unavoidable noncompliance and violations
Effective between the dates of 03/10/2003 and Permit Expiration Date

Applicable State Requirement:6NYCRR 201-1.4

Item 26.1:
At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

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

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

applicable requirements more stringent than those above.

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

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

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

Condition 27: Emission Unit Definition
Effective between the dates of 03/10/2003 and Permit Expiration Date

Applicable State Requirement:6NYCRR 201-5

Item 27.1(From Mod 1):
The facility is authorized to perform regulated processes under this permit for:
Emission Unit: 1-0001A
Emission Unit Description:
Alloying Emission Unit - Metals are melted, cast, and adjusted to the correct alloy chemistry.

Building(s): 1

Item 27.2(From Mod 1):
The facility is authorized to perform regulated processes under this permit for:
Emission Unit: 1-0002F
Emission Unit Description:
Fabrication Emission Unit - The Fabrication Department produces wires, ribbons, foils, and stamped molded or otherwise preformed shapes to customer order and specifications. Unique and propietary processes are coupled with conventional metal forming techniques to transform the ingots or billets into the requested finished form.

Building(s): 1

Item 27.3(From Mod 1):
The facility is authorized to perform regulated processes under this permit for:
Emission Unit: 1-0003C
Emission Unit Description:
Cleaning Emission Unit - Metals are cleaned and

degreased.

Building(s): 1

Item 27.4(From Mod 1):
The facility is authorized to perform regulated processes under this permit for:
Emission Unit: 1-0004R
Emission Unit Description:
Indium metal refining and Indium inorganic salt production.

Building(s): 1

Condition 28: Air pollution prohibited
Effective between the dates of 03/10/2003 and Permit Expiration Date

Applicable State Requirement:6NYCRR 211.2

Item 28.1:
No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

**** Emission Unit Level ****

Condition 29: Emission Point Definition By Emission Unit
Effective between the dates of 03/10/2003 and Permit Expiration Date

Applicable State Requirement:6NYCRR 201-5

Item 29.1(From Mod 1):
The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-0001A

Emission Point: 00011
Height (ft.): 26 Length (in.): 15 Width (in.): 17
NYTMN (km.): 4770.9 NYTME (km.): 478.6 Building: 1

Emission Point: 00014
Height (ft.): 24 Length (in.): 19 Width (in.): 26
NYTMN (km.): 4770.9 NYTME (km.): 478.6 Building: 1

Emission Point: 00056
Height (ft.): 14 Length (in.): 14 Width (in.): 28
NYTMN (km.): 4770.9 NYTME (km.): 478.6 Building: 1

Item 29.2(From Mod 1):
The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-0002F

Emission Point: 00033
Height (ft.): 26 Length (in.): 14 Width (in.): 20
NYTMN (km.): 4770.9 NYTME (km.): 478.6 Building: 1

Item 29.3(From Mod 1):
The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-0003C

Emission Point: 00019
Height (ft.): 27 Length (in.): 13 Width (in.): 17
NYTMN (km.): 4770.9 NYTME (km.): 478.6 Building: 1

Emission Point: 00020
Height (ft.): 27 Length (in.): 11 Width (in.): 15
NYTMN (km.): 4770.9 NYTME (km.): 478.6 Building: 1

Item 29.4(From Mod 1):
The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-0004R

Emission Point: 00039
Height (ft.): 14 Diameter (in.): 2
NYTMN (km.): 4770.9 NYTME (km.): 478.6 Building: 1

Emission Point: 00041
Height (ft.): 26 Diameter (in.): 14
NYTMN (km.): 4770.9 NYTME (km.): 478.6 Building: 1

Emission Point: 00043
Height (ft.): 26 Diameter (in.): 10
NYTMN (km.): 4770.9 NYTME (km.): 478.6 Building: 1

Emission Point: 00047
Height (ft.): 20 Diameter (in.): 3
NYTMN (km.): 4770.9 NYTME (km.): 478.6 Building: 1

Emission Point: 00060
Height (ft.): 28 Diameter (in.): 37
NYTMN (km.): 4770.9 NYTME (km.): 478.6 Building: 1

Emission Point: 00061
Height (ft.): 29 Diameter (in.): 16
NYTMN (km.): 4770.9 NYTME (km.): 478.6 Building: 1

Emission Point: 00062

Height (ft.): 31 Diameter (in.): 14
NYTMN (km.): 4770.9 NYTME (km.): 478.6 Building: 1

Emission Point: 00063
Height (ft.): 14 Diameter (in.): 3
NYTMN (km.): 4770.9 NYTME (km.): 478.6 Building: 1

Emission Point: 00064
Height (ft.): 34 Diameter (in.): 18
NYTMN (km.): 4770.9 NYTME (km.): 478.6 Building: 1

Condition 30: Process Definition By Emission Unit
Effective between the dates of 03/10/2003 and Permit Expiration Date

Applicable State Requirement:6NYCRR 201-5

Item 30.1(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0001A
Process: AL1 Source Classification Code: 3-03-001-04
Process Description:
Service Area - Alloy #1. Melting Station #1. This station consists of a burner operation with an associated hood.

Emission Source/Control: 00AL1 - Process

Item 30.2(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0001A
Process: AL2 Source Classification Code: 3-03-001-04
Process Description:
Service ARea - Alloy #2. Melting Station #2. This station consists of large and small ajax electric induction heated crucibles for metal heating witha large hood.

Emission Source/Control: 00AL2 - Process

Item 30.3(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0001A
Process: AL3 Source Classification Code: 3-03-001-04
Process Description:
Service Area - Alloy #3. Melting Station #3. This station consits of oven machine with associated burner hood.

Emission Source/Control: 00AL3 - Process

Item 30.4(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0002F
Process: PD1
Process Description:
Parts are punched to create differnt shapes. Punched material may require a lubricant to be used in which the punched parts will sit in until taken to the cleaning room. Trichloroethylene is used as the lubricant prior to cleaning. Drop down lines are used to vent any emissions from container while machine is operating. Once operation has been completed exhaust to the lines is shut off.

Emission Source/Control: 00PD1 - Process

Item 30.5(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0002F
Process: RM2
Process Description:
Rolling mill to roll different sizes of metal ribbons and other shapes. Mill is used for hot and cold rolling process. Solvent, oil, or trichlorethyene is used to lubricate the material.

Emission Source/Control: 00RM2 - Process

Item 30.6(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0002F
Process: RML Source Classification Code: 3-03-009-31
Process Description:
Rolling mill is used roll different sizes of metal material. Solvent or oil is used to lubricate during rolling phase. Rolling is done at different temperatures.

Emission Source/Control: 00RML - Process

Item 30.7(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0003C
Process: DR1 Source Classification Code: 3-03-000-02
Process Description:
Drying oven used to dry parts following degreasing operations.

Emission Source/Control: 00DR1 - Process

Item 30.8(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0003C
Process: DS1 Source Classification Code: 4-90-002-08
Process Description:
Decant Station - Enclosed hood used a solvent decanting and transfer station (ie. trichloroethylene poured into small beakers).

Emission Source/Control: 0DCS1 - Process

Item 30.9(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0003C
Process: STL Source Classification Code: 3-01-024-27
Process Description: Solvent relcamation units.

Emission Source/Control: 00ST1 - Process

Item 30.10(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0003C
Process: VAP Source Classification Code: 4-01-002-97
Process Description:
Vapor degreasing stations. The vapor degreasers are existing and meet Halogenated Solvent NESHAP requirements. Degreasers are batch type units equipped with 150% freeboard ratio, subzero chillers, automated parts handling systems, and working mode covers.

Emission Source/Control: 00VD1 - Process

Emission Source/Control: 00VD2 - Process

Emission Source/Control: 00VD4 - Process

Item 30.11(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0004R
Process: CIG Source Classification Code: 3-04-003-22
Process Description:
Refining and recovery #8 is a specialty scrap recovery operation. This involves a series of process tanks and reactors in the processing steps. Two pieces of equipment associated with source CIG is also used for material created by procees RR4.

Emission Source/Control: 00CIG - Process

Item 30.12(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0004R
Process: DF1 Source Classification Code: 3-05-016-31
Process Description:
D&F-1. Drying and calcining operation. This operation consists of several ovens, a cooling box with associated hoods, and a scrubber unit.

Emission Source/Control: 00CIS - Control
Control Type: VENTURI SCRUBBER

Emission Source/Control: 00DFI - Control
Control Type: FABRIC FILTER

Emission Source/Control: 00DF1 - Process

Item 30.13(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0004R
Process: IC1
Process Description:
This process contains several operations for the production of indium inorganic salts. These include small scale production of inorganic salts, Liquid/solid separation of inorganic salts, and wastewater treatment of liquid from separation operation.

Emission Source/Control: 00LSS - Process

Emission Source/Control: 00WWT - Process

Item 30.14(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0004R
Process: MSC
Process Description:
Miscellaneous melting operations, and associated hoods.

Emission Source/Control: 00CAF - Process

Item 30.15(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0004R
Process: PU1 Source Classification Code: 6-44-300-13
Process Description:
Batch type chemical process reactor which is used to produce Indium inorganic salts.

Emission Source/Control: 00PU1 - Process

Item 30.16(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0004R
Process: PU2 Source Classification Code: 6-44-300-13
Process Description:
Process chemical reactors to produce indium inorganic salts

Emission Source/Control: 00PU2 - Process

Item 30.17(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0004R
Process: PU3 Source Classification Code: 6-44-300-13
Process Description:
Chemical process reators to produce indium inorganic salts

Emission Source/Control: 00PU3 - Process

Item 30.18(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0004R
Process: RR4 Source Classification Code: 3-04-003-22
Process Description:
Refining and Recovery #4 - Propietary physical metallurgical process for refining Indium metal.

Emission Source/Control: 00RRS - Control
Control Type: VENTURI SCRUBBER

Emission Source/Control: 00RR4 - Process

Item 30.19(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0004R
Process: RRI Source Classification Code: 3-03-009-27
Process Description:
Refining and Recovery #1 is a scrap leaching operation.

Emission Source/Control: 00RR1 - Process

Emission Source/Control: 00RR2 - Process

Emission Source/Control: 00RR3 - Process

Item 30.20(From Mod 1):

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

Emission Unit: 1-0004R
Process: WCA Source Classification Code: 3-05-007-10
Process Description:
Wet Chemical Area. Small scale production of miscellaneous Indium inorganic salts. This system consists of tanks, reactors, and associated hoods.

Emission Source/Control: 00WCA - Process

Item 30.21(From Mod 1):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0004R
Process: WCC Source Classification Code: 1-02-002-13
Process Description: Wet Chemical Cleaning of fabrications.

Emission Source/Control: 00WCC - Process

Item 30.22(From Mod 0):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0003C
Process: DS2 Source Classification Code: 4-90-002-08
Process Description:
Decant Station- Hooded Area Used for Decanting and Holding of Parts During the Cleaning Process

Emission Source/Control: 0DCS2 - Process

Item 30.23(From Mod 0):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0004R
Process: RR2 Source Classification Code: 3-04-002-07
Process Description:
Refining and Recovery #2 is a scrap leaching operation.

Emission Source/Control: 00RR2 - Process

Item 30.24(From Mod 0):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0004R
Process: RR3 Source Classification Code: 3-05-005-03
Process Description:
Refining and Recovery #3 - Melt Station for alloy reclamation also supports proprietary physical metallurgial processes.

Emission Source/Control: 00RR3 - Process

Item 30.25(From Mod 0):
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-0004R
Process: RR5 Source Classification Code: 3-04-003-22
Process Description:
Refining and Recovery #5. Proprietary physical metallurgical process for refining Indium metal.

Emission Source/Control: 00RR5 - Process