

**New York State Department of Environmental Conservation  
Facility DEC ID: 7493000013**



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

**IDENTIFICATION INFORMATION**

PAir State Facility

Permit ID: 7-4930-00013/00087

Effective Date: 01/23/2004 Expiration Date: 01/23/2009

Permit Issued To: HADCO CORP  
2700 NORTH FIRST STREET  
SAN JOSE, CA 95134

Contact: JAMES M KOHLBACH  
HADCO - OWEGO  
1200 TAYLOR ROAD  
OWEGO, NY 13827-1200  
(607) 689-5574

HADCO - OWEGO  
1200 TAYLOR RD  
OWEGO, NY 13827-1200

Description:

TYPE OF EQUIPMENT AND OPERATION AT THE FACILITY:

HADCO (SIC Code 3672) manufactures printed circuit boards. The primary sources of emissions are coaters used to apply a liquid photo-imageable solder mask and a develop-etch-strip process. The curtain coater is subject to 6 NYCRR Part 212.10. Other processes are subject to 6 NYCRR Part 212.

PERMIT APPLICABILITY: State Facility Permit for printed circuit board operations. Facility is subject to the following requirements: 6 NYCRR Part 200, Part 201, Part 202, Part 211, Part 212, Part 215, Part 226, Part 227, and 40 CFR Part 82.

CAPPING: Yes

ENFORCEMENT: No.

FINAL

**New York State Department of Environmental Conservation**  
**Facility DEC ID: 7493000013**



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:           MICHAEL K BARYLSKI  
  DIVISION OF ENVIRONMENTAL PERMITS  
  1285 FISHER AVE  
  CORTLAND, NY 13045-1090

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_



**Notification of Other State Permittee Obligations**

**Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

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

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

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

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

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

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



**LIST OF CONDITIONS**

**DEC GENERAL CONDITIONS**

**General Provisions**

Relationship of this Permit to Other Department Orders and Determinations

Facility Inspection by the Department

Applications for Permit Renewals and Modifications

Permit Modifications, Suspensions and Revocations by the Department

**Facility Level**

Submission of Applications for Permit Modification or Renewal -REGION 7  
SUBOFFICE



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

**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 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 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

**New York State Department of Environmental Conservation**  
**Facility DEC ID: 7493000013**



transfer of ownership.

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

**Item 4.1:**

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

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

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

**Condition 5: Submission of Applications for Permit Modification or Renewal -REGION 7**  
**SUBOFFICE**  
**Applicable State Requirement: 6NYCRR 621.5(a)**

**Item 5.1:**

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

NYSDEC Regional Permit Administrator  
Region 7 Sub-office  
Division of Environmental Permits  
1285 Fisher Avenue  
Cortland, NY 13045-1090  
(607) 753-3095

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



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

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

**IDENTIFICATION INFORMATION**

Permit Issued To: HADCO CORP

2700 NORTH FIRST STREET  
SAN JOSE, CA 95134

Facility:

HADCO - OWEGO  
1200 TAYLOR RD  
OWEGO, NY 13827-1200

Authorized Activity By Standard Industrial Classification Code:  
3672 - PRINTED CIRCUIT BOARDS

Permit Effective Date: 01/23/2004

Permit Expiration Date: 01/23/2009



**LIST OF CONDITIONS**

**FEDERALLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 1 6NYCRR 200.7: Compliance Demonstration
- 2 6NYCRR 201-6.1(a): Compliance Demonstration
- 3 6NYCRR 201-6.1(a): Compliance Demonstration
- 4 6NYCRR 201-6.1(a): Compliance Demonstration
- 5 6NYCRR 201-7.2: Synthetic minor facility capping provisions.
- 6 6NYCRR 212.4(a): Compliance Demonstration
- 7 6NYCRR 212.4(a): Compliance Demonstration
- 8 6NYCRR 212.4(c): Compliance Demonstration
- 9 6NYCRR 212.6(a): Compliance Demonstration
- 10 40CFR 82, Subpart F: Recycling and Emissions Reduction

**Emission Unit Level**

**EU=U-COAT1**

- 11 6NYCRR 212.10(c)(4)(ii): Compliance Demonstration

**EU=U-COAT1,Proc=CT2**

- 12 6NYCRR 212.10(c)(4)(i): Compliance Demonstration

**EU=U--COMB,Proc=GAS**

- 13 40CFR 60.48c(a), NSPS Subpart Dc: Compliance Demonstration

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 14 ECL 19-0301: Contaminant List
- 15 6NYCRR 201-1.4: Unavoidable noncompliance and violations
- 16 6NYCRR 201-5: Emission Unit Definition
- 17 6NYCRR 201-5.4(b): Compliance Demonstration
- 18 6NYCRR 211.2: Air pollution prohibited
- 19 6NYCRR 212.4(a): Compliance Demonstration
- 20 6NYCRR 212.4(a): Compliance Demonstration

**Emission Unit Level**

- 21 6NYCRR 201-5: Emission Point Definition By Emission Unit
- 22 6NYCRR 201-5: Process Definition By Emission Unit

**EU=U-COAT1,Proc=CT3**

- 23 6NYCRR 212.10(c)(4)(i): Compliance Demonstration



**FEDERALLY ENFORCEABLE CONDITIONS**

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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

**Item A: Sealing - 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

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



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

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



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



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

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



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

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

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

**FEDERAL APPLICABLE REQUIREMENTS**

**The following conditions are federally enforceable.**

**Condition 1: Compliance Demonstration**  
**Effective between the dates of 01/23/2004 and 01/23/2009**

**Applicable Federal Requirement: 6NYCRR 200.7**

**Item 1.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 1.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Section 200.7 requires that any person who owns or operates an air contamination source shall keep the device in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications.

Within 120 days of the effective date of this permit, the



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

owner or operator shall submit to the DEC a plan for maintaining the efficiency of the control devices at the facility (the "air pollution control device operation and maintenance plan"). Such plan shall include recommended operating ranges for scrubber flow, pH and pressure drop. For fabric filter devices, such plan shall include operating ranges for pressure drop or the use of broken bag detector devices.

Upon submission of such a plan, and continuing after DEC approval, the owner or operator shall operate the control devices in accordance with the plan.

On an annual calendar basis, the owner or operator shall submit to the DEC a report stating whether the control devices have been operated and maintained in accordance with the DEC-approved plan.

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 1/30/2005.

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

**Condition 2: Compliance Demonstration**  
**Effective between the dates of 01/23/2004 and 01/23/2009**

**Applicable Federal Requirement: 6NYCRR 201-6.1(a)**

**Item 2.1:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY100-00-0 HAP

**Item 2.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility-wide emissions of hazardous air pollutants (HAP) shall not exceed 24.5 tons per 12 calendar month rolling period. Emissions shall be computed based on material usage and, where applicable, measured control equipment efficiencies. Where a HAP control device is used, the control equipment HAP reduction efficiency shall be based



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

on the results of the most recent stack emissions test, emission factors or engineering calculations, as approved by DEC.

Where HAP emissions control equipment is used, the owner or operator must operate and maintain such equipment consistent with the air pollution control device operation and maintenance plan required elsewhere in this permit.

On an annual basis, beginning one year after receipt of this permit, and on a calendar year basis ending December 31 thereafter, the owner or operator shall provide a certification to the DEC that the facility has operated within the 24.5 ton/year limit for each 12 calendar month rolling period. This certification shall include a summary of the emissions that occurred for this period. The owner or operator must maintain records of emissions calculations on-site for a period of five years and make them available to representatives of the DEC upon request.

The first report shall be due 30 days after the end of the first 12 month rolling period, commencing with the receipt of this permit. Thereafter, reports shall be due January 30. Additionally, if the owner or operator exceeds the rolling annual emissions limit for any period, the owner or operator shall submit to the DEC a notice of such excess emissions no later than 30 days after the last day in that annual period.

Monitoring Frequency: MONTHLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2005.  
Subsequent reports are due every 12 calendar month(s).

**Condition 3: Compliance Demonstration**  
**Effective between the dates of 01/23/2004 and 01/23/2009**

**Applicable Federal Requirement: 6NYCRR 201-6.1(a)**

**Item 3.1:**

The Compliance Demonstration activity will be performed for the Facility.

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

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



**Item 3.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility-wide emissions of volatile organic compounds shall not exceed 48 tons per 12 calendar month rolling period. Emissions shall be computed based on material usage and, where applicable, measured control equipment efficiencies (such as on the curtain and roll solder mask coaters). Where a VOC control device is used, the control equipment VOC reduction efficiency shall be based on the results of the most recent stack emissions test, emission factors or engineering calculations, as approved by DEC.

Where VOC emissions control equipment is used, the owner or operator must operate and maintain such equipment consistent with the air pollution control device operation and maintenance plan required elsewhere in this permit.

On an annual basis, beginning one year after receipt of this permit, and on a calendar year basis ending December 31 thereafter, the owner or operator shall provide a certification to the DEC that the facility has operated within the 48 ton/year limit for each 12 calendar month rolling period. This certification shall include a summary of the emissions that occurred for this period. The owner or operator must maintain records of the emissions calculations that form the basis of this certification on-site for a period of five years and make them available to representatives of the DEC upon request.

The first report shall be due 30 days after the end of the first 12 month rolling period, commencing with the receipt of this permit. Thereafter, reports shall be due January 30. Additionally, if the owner or operator exceeds the rolling annual emissions limit for any period, the owner or operator shall submit to the DEC a notice of such excess emissions no later than 30 days after the last day in that annual period.

Monitoring Frequency: MONTHLY



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2005.  
Subsequent reports are due every 12 calendar month(s).

**Condition 4: Compliance Demonstration**  
**Effective between the dates of 01/23/2004 and 01/23/2009**

**Applicable Federal Requirement: 6NYCRR 201-6.1(a)**

**Item 4.1:**

The Compliance Demonstration activity will be performed for the Facility.

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

**Item 4.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility-wide emissions of any single hazardous air pollutants (HAP) shall not exceed 9.5 tons per 12 calendar month rolling period. Emissions shall be computed based on material usage and, where applicable, measured control equipment efficiencies. Where a HAP control device is used, the control equipment HAP reduction efficiency shall be based on the results of the most recent stack emissions test, emission factors or engineering calculations, as approved by DEC.

Where HAP emissions control equipment is used, the owner or operator must operate and maintain such equipment consistent with the air pollution control device operation and maintenance plan required elsewhere in this permit.

On an annual basis, beginning one year after receipt of this permit, and on a calendar year basis ending December 31 thereafter, the owner or operator shall provide a certification to the DEC that the facility has operated within the 9.5 ton/year limit for each 12 calendar month rolling period. This certification shall include a summary of the emissions that occurred for this period. The owner or operator must maintain records of emissions calculations on-site for a period of five years and make them available to representatives of the DEC upon request.

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



The first report shall be due 30 days after the end of the first 12 month rolling period, commencing with the receipt of this permit. Thereafter, reports shall be due January 30. Additionally, if the owner or operator exceeds the rolling annual emissions limit for any period, the owner or operator shall submit to the DEC a notice of such excess emissions no later than 30 days after the last day in that annual period.

Monitoring Frequency: MONTHLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2005.  
Subsequent reports are due every 12 calendar month(s).

**Condition 5: Synthetic minor facility capping provisions.  
Effective between the dates of 01/23/2004 and 01/23/2009**

**Applicable Federal Requirement: 6NYCRR 201-7.2**

**Item 5.1:**

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

**Item 5.2:**

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 5.3:**

On an annual basis, 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 those threshold levels that would require the submission of an application for a Title V facility permit, or compliance with an applicable requirement.

**Item 5.4:**

The emission of pollutants in exceedance of the applicability thresholds for obtaining a Title V facility permit or other applicable requirements constitutes a violation of Part 201 and of the Act.

**Condition 6: Compliance Demonstration  
Effective between the dates of 01/23/2004 and 01/23/2009**



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

**Item 6.1:**

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

Emission Unit: U-COAT1

Emission Unit: U-FTSRC

Emission Unit: U-HASL1

Emission Unit: U-MECET

Emission Unit: U-PLATE

Emission Unit: U-SEDES

**Item 6.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emissions of contaminants assigned an environmental rating and emission rate limits under Part 212.9.

Several emission sources at Hadco emit A-rated contaminants, non-A-rated contaminants or both. This condition is applicable to all such devices. This condition applies to criteria pollutants (such as pollutants that are VOCs) and is federally-enforceable.

1. The emission rate potential of any A-rated pollutant shall not exceed 1.0 pound per hour.
2. The emission rate potential of any B-rated pollutant, excluding pollutants that are also defined to be volatile organic compounds, shall not exceed 10.0 pounds per hour.

For this facility, A-rated contaminants are those contaminants listed with a "high" toxicity in the Department's most recent DAR-1 (Air Guide 1) guidance document, and any other contaminant that may be A-rated by the Department. All other pollutants are B-rated, unless

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



otherwise rated by the Department.

3. The following shall not have an emissions rate that results in predicted ambient concentrations in excess of the Annual Guideline Concentration or the Short term Guideline Concentration for each contaminant, as determined pursuant to DAR-1:

(A) contaminants rated A with an emission rate potential less than one pound per hour and

(B) contaminants rated B with an emission rate potential less than 10 pounds per hour.

Compliance will be determined using a stack emission test, conducted upon request from the DEC, according to methods promulgated by EPA, as approved by the DEC.

4. If the emissions source is equipped with an emissions control device, such device must be operated and maintained in a satisfactory state of maintenance and repair.

5. On an annual basis, beginning one year after receipt of this permit, and on a calendar year basis ending December 31 thereafter, the owner or operator shall submit to the DEC a report stating whether any changes were made to the operation of these emissions sources, or the air pollution control equipment.

The first report shall be due 30 days after the end of the first 12 month rolling period, commencing with the receipt of this permit. Thereafter, reports shall be due January 30.

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 1/30/2005.

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

**Condition 7: Compliance Demonstration**  
**Effective between the dates of 01/23/2004 and 01/23/2009**

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

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



**Item 7.1:**

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-COAT1

Emission Unit: U-FTSRC

Emission Unit: U-HASL1

Emission Unit: U-MECET

Emission Unit: U-PLATE

Emission Unit: U-SEDES

**Item 7.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emissions of A and B - rated contaminants - Ambient  
Guideline Concentration Limits

Several emission sources at Hadco emit A-rated contaminants, non-A-rated contaminants or both. This condition is applicable to all such devices. This condition applies to criteria pollutants (such as pollutants that are VOCs) and is federally-enforceable.

A facility-wide ambient impact analysis must be completed using DEC approved ambient modeling procedures for all pollutants for which an environmental rating is assigned by the DEC. For this facility, A-rated contaminants are those contaminants listed with a "high" toxicity in the Department's most recent DAR-1 (Air Guide 1) guidance document, and any other contaminant that may be A-rated by the Department. All other pollutants are B-rated, unless otherwise rated by the Department. This analysis must show that there are no predicted off-site ambient concentrations in excess of the Annual Guideline Concentration or Short term Guideline Concentration for each contaminant. This analysis shall include all emissions of such pollutant, facility-wide, so that cumulative impacts are modeled. Within 90 days of the effective date of this permit, the owner or operator must



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

submit to the DEC a modeling protocol for the ambient impact analysis. Within 90 days of DEC's approval of the protocol, the owner or operator shall submit to the DEC a report describing the results of ambient impact analysis.

The owner or operator must not make any changes to the stack characteristics (height or exit velocity) that would result in a predicted increase in ambient concentrations unless approved by the DEC.

On an annual basis, beginning one year after receipt of this permit, and on a calendar year basis ending December 31 thereafter, the owner or operator shall submit to the DEC a report stating whether any changes were made to the operation of these emissions sources, or the air pollution control equipment, that could result in increases in predicted emissions. The first report shall be due 30 days after the end of the first 12 month rolling period, commencing with the receipt of this permit. Thereafter, reports shall be due January 30.

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 1/30/2005.

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

**Condition 8: Compliance Demonstration**  
**Effective between the dates of 01/23/2004 and 01/23/2009**

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

**Item 8.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 8.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emissions of Solid Particulate Matter

Several process devices at Hadco emit solid particulates.

This condition is applicable to all such process

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



devices.

Solid particulate emissions are governed by 6 NYCRR 212.4(c). No person shall cause or allow emissions of solid particulate in excess of 0.05 grains per dry standard cubic foot.

Compliance will be determined using a stack emission test, conducted upon request from the DEC, according to methods promulgated by EPA or approved by the DEC.

If the emissions source is equipped with an emissions control device, the owner or operator must operate and maintain such equipment consistent with the air pollution control device operation and maintenance plan required elsewhere in this permit. The owner or operator shall inspect, on a weekly basis (or at any other frequency that is consistent with the maintenance plan submitted to the DEC as required under this permit), the operation of the control devices.

On an annual basis, beginning one year after receipt of this permit, and on a calendar year basis ending December 31 thereafter, the owner or operator shall submit to the DEC a report stating whether any changes were made to the operation of the air pollution control equipment. The first report shall be due 30 days after the end of the first 12 month rolling period, commencing with the receipt of this permit. Thereafter, reports shall be due January 30.

Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2005.

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

**Condition 9: Compliance Demonstration**  
**Effective between the dates of 01/23/2004 and 01/23/2009**

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

**Item 9.1:**

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



The Compliance Demonstration activity will be performed for the Facility.

**Item 9.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Visible Emissions (Opacity)

Emissions from several devices at Hadco cause opacity. This condition is applicable to all such devices.

Opacity from emissions are governed by 6 NYCRR 212.6(a). 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 for the emission of uncombined water.

Compliance will be determined using EPA Method 9, conducted upon request from the DEC.

If the emissions source is equipped with an emissions control device, the owner or operator must operate and maintain such equipment consistent with the air pollution control device operation and maintenance plan required elsewhere in this permit.

On an annual basis, beginning one year after receipt of this permit, and on a calendar year basis ending December 31 thereafter, the owner or operator shall submit to the DEC a report stating whether any changes were made to the operation of these emissions sources, or the air pollution control equipment. The first report shall be due 30 days after the end of the first 12 month rolling period, commencing with the receipt of this permit. Thereafter, reports shall be due January 30.

Reference Test Method: EPA Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2005.



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

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

**Condition 10: Recycling and Emissions Reduction**  
**Effective between the dates of 01/23/2004 and 01/23/2009**

**Applicable Federal Requirement: 40CFR 82, Subpart F**

**Item 10.1:**

The permittee shall comply with all applicable provisions of 40 CFR Part 82.

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

**Condition 11: Compliance Demonstration**  
**Effective between the dates of 01/23/2004 and 01/23/2009**

**Applicable Federal Requirement: 6NYCRR 212.10(c)(4)(ii)**

**Item 11.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-COAT1

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 11.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition applies to process CT2 when the soldermask curtain coater uses coatings containing VOC equal to or less than of 3.5 pounds of VOC per gallon of coating (minus water and excluded VOC), as calculated according to the formula in 6 NYCRR 228.2(b)(11). Such coatings are termed "compliant coatings" for purposes of this condition. The curtain coater is equipped with a wet scrubbing device.

The soldermask curtain coating process is subject to 6 NYCRR Part 212.10(c)(4)(ii). Whenever the wet scrubber control device is not operating, the maximum VOC content of coatings not exceed 3.5 pounds VOC (minus water and excluded VOC), as calculated according to the formula in 6 NYCRR 228.2(b)(11).

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



The owner is required to maintain written records of each period when the wet scrubber is not operating. The owner or operator must maintain written records (daily logs) of each and every coating used on the soldermask curtain coater. The owner or operator must maintain and, upon request, provide the department's representative with certification from the coating supplier/manufacturer which verifies the parameters used to determine the actual VOC content of the as-applied coating as defined in section 228.2(b)(11) of this Part, for each coating used at the facility.

On an annual basis, beginning one year after receipt of this permit, and on a calendar year basis ending December 31 thereafter, the owner or operator shall submit to the DEC a report stating whether any changes were made to the operation of these emissions sources, or the air pollution control equipment, and/or whether the owner or operator failed to comply with the terms of this condition. The first report shall be due 30 days after the end of the first 12 month rolling period, commencing with the receipt of this permit. Thereafter, reports shall be due January 30.

Additionally, the owner or operator must submit to the DEC a written report of each period of use of coatings containing in excess of 3.5 pounds of VOC per gallon of coating (minus water and excluded VOC) without the simultaneous operation of the wet scrubber. Such report shall be submitted within 30 days of such occurrence.

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 1/30/2005.

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

**Condition 12: Compliance Demonstration**  
**Effective between the dates of 01/23/2004 and 01/23/2009**

**Applicable Federal Requirement: 6NYCRR 212.10(c)(4)(i)**

**Item 12.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-COAT1

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



Process: CT2

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 12.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition applies to process CT2 when the soldermask curtain coater uses coatings containing VOC in excess of 3.5 pounds of VOC per gallon of coating (minus water and excluded VOC), as calculated according to the formula in 6 NYCRR 228.2(b)(11).

The soldermask curtain coating process is subject to 6 NYCRR Part 212.10(c)(4)(i), which requires capture and removal of VOCs with an overall removal efficiency of 81 percent.

VOC emissions are controlled with a wet scrubber. Compliance shall be demonstrated by emissions testing. Such testing shall be conducted at least once per permit term, and at any other time as requested by the DEC. Testing shall be conducted in accordance with EPA methods, or other DEC approved methods.

The owner or operator must operate and maintain the scrubber consistent with the air pollution control device operation and maintenance plan required elsewhere in this permit. The owner or operator shall maintain a written record indicating any and all times the scrubber is operated.

The owner or operator must maintain written records (daily logs) of each and every coating used on the soldermask curtain coater. The owner or operator must maintain and, upon request, provide the department's representative with certification from the coating supplier/manufacturer which verifies the parameters used to determine the actual VOC content of the as-applied coating as defined in section 228.2(b)(11) of this Part, for each coating used at the facility.

On an annual basis, beginning one year after receipt of this permit, and on a calendar year basis ending December



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

31 thereafter, the owner or operator shall submit to the DEC a report stating whether any changes were made to the operation of these emissions sources, or the air pollution control equipment, and/or whether the owner or operator failed to comply with the terms of this condition. The first report shall be due 30 days after the end of the first 12 month rolling period, commencing with the receipt of this permit. Thereafter, reports shall be due January 30.

Additionally, the owner or operator must submit to the DEC a written report of each period of use of coatings containing in excess of 3.5 pounds of VOC per gallon of coating (minus water and excluded VOC) without the simultaneous operation of the wet scrubber. Such report shall be submitted within 30 days of such occurrence.

Lower Permit Limit: 81 percent reduction by weight

Reference Test Method: EPA approved methods

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2005.

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

**Condition 13: Compliance Demonstration**

**Effective between the dates of 01/23/2004 and 01/23/2009**

**Applicable Federal Requirement: 40CFR 60.48c(a), NSPS Subpart Dc**

**Item 13.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U--COMB

Process: GAS

**Item 13.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Within 60 days after the date of permit issuance the

owner or operator shall submit to EPA Region 2

notification of the date of construction or

**New York State Department of Environmental Conservation**  
**Permit ID: 7-4930-00013/00087      Facility DEC ID: 7493000013**



reconstruction, actual startup, and the design heat input capacity and identification of the fuels combusted.

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE



**STATE ONLY ENFORCEABLE CONDITIONS**

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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

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

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

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

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

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

**New York State Department of Environmental Conservation**

Permit ID: 7-4930-00013/00087

Facility DEC ID: 7493000013



law.

**STATE ONLY APPLICABLE REQUIREMENTS**

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

**Condition 14: Contaminant List**

**Effective between the dates of 01/23/2004 and 01/23/2009**

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

**Item 14.1:**

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

CAS No: 0NY100-00-0

Name: HAP

CAS No: 0NY998-00-0

Name: VOC

**Condition 15: Unavoidable noncompliance and violations**

**Effective between the dates of 01/23/2004 and 01/23/2009**

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

**Item 15.1:**

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

(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



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

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

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

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

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

**Condition 16: Emission Unit Definition**  
**Effective between the dates of 01/23/2004 and 01/23/2009**

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

**Item 16.1:**

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

Emission Unit: U-BAGHO

Emission Unit Description:

THIS EMISSION UNIT CONTAINS EMISSION POINTS WHICH ARE INVOLVED WITH PROCESSES BH1, BH2 and BH3. THESE EMISSION POINTS ARE LOCATED IN BUILDING MLB: 00015, 00016, 00021, 00053, 00054, 00068, IN THE BROADWAY BUILDING: 00069, 00070, AND IN BUILDING DCW: 00071, 00072, 00073 . ALL ELEVEN OF THESE POINTS VENT THROUGH INDEPENDANT BAGHOUSES.

The emission sources in this emission unit emit solid particulate. Emission point 71 (emission source 7100), the laser drill, has the potential to emit A and B rated contaminants. These emissions sources are

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



subject to 6 NYCRR 212.4(a), 212.4(c) and 6 NYCRR 212.6(a).

Building(s): BROADWAY  
DCW  
MLB

**Item 16.2:**

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

Emission Unit: U-COAT1

Emission Unit Description:

THIS EMISSION UNIT CONTAINS EMISSION POINTS 17, 18, 19, 76 AND 77 WHICH ARE ASSOCIATED WITH PROCESSES CT1 (LOCATED IN THE BROADWAY BUILDING) AND EMISSION POINT 03539, WHICH IS ASSOCIATED WITH PROCESS CT2 (LOCATED IN BUILDING MLB), and EMISSION POINT 63, WHICH IS ASSOCIATED WITH PROCESS CT3 (located in Building MLB).

Processes in this emission unit include drying of hand application of inks (CT1) and automated coating processes (CT2 and CT3) that apply an organic soldermask coating over a non-ferrous or precious metal surface. There are two coating machines: a curtain coater with an in-line tower coater (process CT2), and a flood screen coater (process CT3). CT2 and CT3 are controlled with wet scrubbers (one each). Emissions include B-rated contaminants (VOCs). The emissions sources in this emission unit are subject to: 6 NYCRR 212.4(a) and 6 NYCRR 212.6(a), opacity; and other conditions, as applicable.

Building(s): BROADWAY  
MLB

**Item 16.3:**

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

Emission Unit: U--COMB

Emission Unit Description:

This emission unit consists of one natural gas fired boiler installed in 1992. The heat input is 12.5 million BTU/hr.

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



**Item 16.4:**

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

Emission Unit: U-FTSRC

Emission Unit Description:

THIS EMISSION UNIT CONTAINS SOURCES ASSOCIATED WITH PROCESS USL. EMISSION POINTS 58, 64, 74, AND 75, WHICH ARE LOCATED IN BUILDING MLB, EMISSION POINT 08 IS LOCATED IN THE BROADWAY BUILDING AND ONE FUGITIVE SOURCE (7800) WHICH IS LOCATED IN BUILDING MLB.

The sources in this emission unit emit B-rated contaminants less than 10 pounds/hr ERP. The emissions sources in this emission unit are subject to: 6 NYCRR 212.4(a) and 6 NYCRR 212.6(a), opacity.

Building(s): BROADWAY  
MLB

**Item 16.5:**

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

Emission Unit: U-HASL1

Emission Unit Description:

THIS EMISSION UNIT CONTAINS EMISSION POINTS 9, 33 AND 57 WHICH ARE ASSOCIATED WITH PROCESS HSL, LOCATED IN THE BROADWAY BUILDING.

The "hot air solder level" process, designated HSL, is a conveyORIZED machine that applies solder over pre-cleaned non-ferrous substrate metal. Excess solder is leveled with a jet of hot air.

Emissions include particulate, A-rated lead, and B-rated compounds. Emissions control equipment include a scrubber, followed by a high efficiency particulate filter. The emissions sources in this emission unit are subject to: 6 NYCRR 212.4(a), for A rated contaminants with an ERP less than 1 pound/hr, and for B rated pollutants with ERPs less than 10 lb/hr, and ambient guideline monitoring; 6 NYCRR 212.6(a), opacity; and Part 212.4(c), solid particulate.

Building(s): BROADWAY

**Item 16.6:**

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

Emission Unit: U-MECET

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



**Emission Unit Description:**

The MECET emissions unit is located in the Multi Layer Board (MLB) Building, contains Emission Point 00084, and is in process MEC. The MECET process is a surface preparation process that utilizes a microetchant to remove a layer of non-ferrous metal substrate to promote adhesion for solder mask coating. Emissions include HCl, ammonia and formic acid. Emissions control includes a wet scrubber. The emissions sources in this emission unit are subject to: 6 NYCRR 212.4(a); 6 NYCRR 212.6(a), opacity; and Part 212.4(c), solid particulate.

**Item 16.7:**

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

Emission Unit: U-PLATE

**Emission Unit Description:**

THIS EMISSION UNIT CONTAINS EMISSION POINTS 6, 7, 11, 29, 62, 65, 81, 82, WHICH ARE ASSOCIATED WITH PROCESS PAL, EMISSION POINTS 85 AND 86, WHICH ARE ASSOCIATED WITH PROCESS EPL. EMISSION POINT 88 IS ASSOCIATED WITH PROCESS LUD. ALL PROCESSES ARE LOCATED IN WET PROCESS BUILDING (WPB), Broadway and MLB.

There are several plating operations at Hadco. The PAL and LUD processes include electrolytic/electroless plating lines for depositing non-ferrous and/or precious metals. Process EPL plates non-ferrous and precious metals. This process emits contaminants that are A and B-rated and have an emission rate potential less than 1 pound per hour and 10 pounds/hr, respectively. The emissions sources in this emission unit are subject to: 6 NYCRR 212.4(a); 6 NYCRR 212.6(a), opacity; and Part 212.4(c), solid particulate.

Building(s): MLB

**Item 16.8:**

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

Emission Unit: U-SEDES

**Emission Unit Description:**

THIS EMISSION UNIT INCLUDES EMISSION POINTS 52, 55, 66, 67, 80 AND 87 WHICH ARE ASSOCIATED WITH PROCESS DES. EMISSION



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

POINTS 55 AND 80 ARE LOCATED IN THE WET PROCESS BUILDING (WPB) AND EMISSION POINTS 52, 66, 67 AND 87 ARE LOCATED IN BUILDING MLB.

Processes include DES, or "develop, etch, strip," and is the process by which circuitry is imparted to the non-ferrous laminate feed stock. In DES, un-polymerized photo-resist is removed from the laminate feed stock, and the exposed non-ferrous laminate is etched. Photo-resist is then stripped off the remaining substrate, which constitutes the circuit.

Emissions include B-rated contaminants with an ERP less than 10 pounds/hr. The emissions sources in this emission unit are subject to: 6 NYCRR 212.4(a); 6 NYCRR 212.6(a), opacity; and Part 212.4(c), solid particulate.

Building(s):      MLB  
                          WPB

**Condition 17:   Compliance Demonstration**  
**Effective between the dates of 01/23/2004 and 01/23/2009**

**Applicable State Requirement:   6NYCRR 201-5.4(b)**

**Item 17.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 17.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operational Flexibility Protocol - New Construction of general process sources; modifications to existing sources

The owner or operator may install a new air contamination source, or modify an existing emission source, that results in insignificant emissions, provided that criteria pollutants, hazardous air pollutants, and all other

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



pollutants emitted from such device for which an annual guideline concentration (AGC) and/or short term guideline concentration (SGC) exist, meet all of the following conditions:

1. The device will not result in the emission of any A-rated contaminant with an emission rate potential equal to or greater than 1.0 pound/hr. A-rated contaminants are those contaminants listed with a "high" toxicity in the Department's most recent Air Guide 1 guidance document, and any other contaminants that may be A-rated by the Department. The owner or operator shall conduct emissions testing upon written request of the DEC in accordance with 6 NYCRR 202.
2. The device will not result in the emission of any non-VOC contaminant, not given an A-rating, with an emission rate potential equal to or greater than 10 pounds/hr. The owner or operator shall conduct emissions testing upon written request of the DEC in accordance with 6 NYCRR 202.
3. The device shall not emit particulate matter in excess of 0.05 gr/dscf. The owner or operator shall conduct emissions testing upon written request of the DEC in accordance with 6 NYCRR 202. The owner or operator shall conduct emissions testing upon written request of the DEC in accordance with 6 NYCRR 202.
4. The device shall not cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater, except only the emission of uncombined water. The owner or operator shall conduct emissions testing upon written request of the DEC in accordance with 6 NYCRR 202.
5. The owner or operator must identify all potential pollutants that could be emitted, including A-rated contaminants, hazardous air pollutants, VOCs, and non-VOC pollutants.
6. A facility-wide DAR-1 (formerly Air Guide 1) analysis must be completed using the DEC's DAR -1 (Air Guide 1) screening software (or completed pursuant to a DEC-approved protocol) showing that there are no predicted off-site ambient concentrations in excess of the AGC or SGC for each contaminant. This analysis shall include all

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



emissions of such pollutant, facility-wide.

7. If the installation or modification results in the emission of any pollutant not previously authorized or emitted in accordance with this permit, or if the installation or modification results in an increase in the emission rate potential of a pollutant emitted at the facility, or if the change involves the installation or alteration of any air cleaning installation device or control equipment, the owner or operator shall submit to the DEC a notice of the intention to install or modify such source. Such notice shall be submitted no later than 30 days prior to the proposed installation.

8. The DEC reserves the right to require a permit modification to impose special conditions if DEC determines the proposed change may have a significant air quality impact. In such cases, upon receipt of any notice submitted by the owner or operator to the DEC as required in this permit, the DEC will respond within 15 days of receipt of such notice, and may require that the owner not undertake the proposed change without a permit modification.

9. No facility-wide emissions cap, stated in this permit, shall be exceeded.

10. The installation does not render the facility subject to any additional regulations or requirements;

11. The owner or operator must physically label all emissions points;

12. The proposed change does not cause emissions to exceed any emission limit contained in regulations or applicable requirements; and

13. A summary of all activities conducted under this operational flexibility condition shall be reported to the DEC in the facility's annual compliance report.

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL  
CHANGE

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

The initial report is due 1/30/2005.  
Subsequent reports are due every 12 calendar month(s).

**Condition 18: Air pollution prohibited**  
**Effective between the dates of 01/23/2004 and 01/23/2009**

**Applicable State Requirement: 6NYCRR 211.2**

**Item 18.1:**

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 19: Compliance Demonstration**  
**Effective between the dates of 01/23/2004 and 01/23/2009**

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

**Item 19.1:**

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

Emission Unit: U-COAT1

Emission Unit: U-FTSRC

Emission Unit: U-HASL1

Emission Unit: U-MECET

Emission Unit: U-PLATE

Emission Unit: U-SEDES

**Item 19.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emissions of A and B - rated contaminants - Ambient  
Guideline Concentration Limits

Several emission sources at Hadco emit A-rated  
contaminants, non-A-rated contaminants or both. This



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

condition is applicable to all such devices. This condition is state-enforceable, and applies to non-criteria pollutants.

A facility-wide ambient impact analysis must be completed using DEC approved ambient modeling procedures for all pollutants for which an environmental rating is assigned by the DEC. For this facility, A-rated contaminants are those contaminants listed with a "high" toxicity in the Department's most recent DAR-1 (Air Guide 1) guidance document, and any other contaminant that may be A-rated by the Department. All other pollutants are B-rated, unless otherwise rated by the Department. This analysis must show that there are no predicted off-site ambient concentrations in excess of the Annual Guideline Concentration or Short term Guideline Concentration for each contaminant. This analysis shall include all emissions of such pollutant, facility-wide, so that cumulative impacts are modeled. Within 90 days of the effective date of this permit, the owner or operator must submit to the DEC a modeling protocol for the ambient impact analysis. Within 90 days of DEC's approval of the protocol, the owner or operator shall submit to the DEC a report describing the results of ambient impact analysis.

The owner or operator must not make any changes to the stack characteristics (height or exit velocity) that would alter dispersion characteristics unless approved by the DEC.

On an annual basis, beginning one year after receipt of this permit, and on a calendar year basis ending December 31 thereafter, the owner or operator shall submit to the DEC a report stating whether any changes were made to the operation of these emissions sources, or the air pollution control equipment, that could result in increases in predicted emissions. The first report shall be due 30 days after the end of the first 12 month rolling period, commencing with the receipt of this permit. Thereafter, reports shall be due January 30.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

The initial report is due 1/30/2005.  
Subsequent reports are due every 12 calendar month(s).

**Condition 20: Compliance Demonstration**  
**Effective between the dates of 01/23/2004 and 01/23/2009**

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

**Item 20.1:**

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

Emission Unit: U-COAT1

Emission Unit: U-FTSRC

Emission Unit: U-HASL1

Emission Unit: U-MECET

Emission Unit: U-PLATE

Emission Unit: U-SEDES

**Item 20.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emissions of contaminants assigned an environmental rating and emission rate limits under Part 212.9.

Several emission sources at Hadco emit A-rated contaminants, non-A-rated contaminants or both. This condition is applicable to all such devices. This condition is state-enforceable, and applies to non-criteria pollutants.

1. The emission rate potential of any A-rated pollutant shall not exceed 1.0 pound per hour.
2. The emission rate potential of any B-rated pollutant, excluding pollutants that are also defined to be volatile organic compounds, shall not exceed 10.0 pounds per hour.

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



For this facility, A-rated contaminants are those contaminants listed with a "high" toxicity in the Department's most recent DAR-1 (Air Guide 1) guidance document, and any other contaminant that may be A-rated by the Department. All other pollutants are B-rated, unless otherwise rated by the Department.

3. The following shall not have an emissions rate that results in predicted ambient concentrations in excess of the Annual Guideline Concentration or the Short term Guideline Concentration for each contaminant, as determined pursuant to DAR-1:

(A) contaminants rated A with an emission rate potential less than one pound per hour and

(B) contaminants rated B or C with an emission rate potential less than 10 pounds per hour.

Compliance will be determined using a stack emission test, conducted upon request from the DEC, according to methods promulgated by EPA, as approved by the DEC.

4. If the emissions source is equipped with an emissions control device, such device must be operated and maintained in a satisfactory state of maintenance and repair.

5. On an annual basis, beginning one year after receipt of this permit, and on a calendar year basis ending December 31 thereafter, the owner or operator shall submit to the DEC a report stating whether any changes were made to the operation of these emissions sources, or the air pollution control equipment.

The first report shall be due 30 days after the end of the first 12 month rolling period, commencing with the receipt of this permit. Thereafter, reports shall be due January 30.

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 1/30/2005.

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



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

**Condition 21: Emission Point Definition By Emission Unit**  
Effective between the dates of 01/23/2004 and 01/23/2009

Applicable State Requirement: 6NYCRR 201-5

**Item 21.1:**

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

Emission Unit: U-BAGHO

Emission Point: 00015  
Height (ft.): 30 Diameter (in.): 8  
NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: MLB

Emission Point: 00016  
Height (ft.): 30 Diameter (in.): 10  
NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: MLB

Emission Point: 00021  
Height (ft.): 30 Diameter (in.): 8  
NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: MLB

Emission Point: 00053  
Height (ft.): 30 Diameter (in.): 10  
NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: MLB

Emission Point: 00054  
Height (ft.): 30 Diameter (in.): 6  
NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: MLB

Emission Point: 00068  
Height (ft.): 24 Diameter (in.): 12  
NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: MLB

Emission Point: 00069  
Height (ft.): 31 Diameter (in.): 5  
NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: BROADWAY

Emission Point: 00070  
Height (ft.): 24 Diameter (in.): 10  
NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: BROADWAY

Emission Point: 00071



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

Height (ft.): 30                      Diameter (in.): 12  
NYTMN (km.): 4662.015    NYTME (km.): 398.475    Building: DCW

Emission Point: 00072  
Height (ft.): 30                      Diameter (in.): 12  
NYTMN (km.): 4662.015    NYTME (km.): 398.475    Building: DCW

Emission Point: 00073  
Height (ft.): 30                      Diameter (in.): 12  
NYTMN (km.): 4662.015    NYTME (km.): 398.475    Building: DCW

**Item 21.2:**

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

Emission Unit: U-COAT1

Emission Point: 00017  
Height (ft.): 27                      Diameter (in.): 6  
NYTMN (km.): 4662.015    NYTME (km.): 398.475    Building: BROADWAY

Emission Point: 00018  
Height (ft.): 27                      Diameter (in.): 6  
NYTMN (km.): 4662.015    NYTME (km.): 398.475    Building: BROADWAY

Emission Point: 00019  
Height (ft.): 27                      Diameter (in.): 6  
NYTMN (km.): 4662.015    NYTME (km.): 398.475    Building: BROADWAY

Emission Point: 00063  
Height (ft.): 33                      Diameter (in.): 18  
NYTMN (km.): 4662.015    NYTME (km.): 398.475    Building: MLB

Emission Point: 00076  
Height (ft.): 28                      Diameter (in.): 8  
NYTMN (km.): 4662.015    NYTME (km.): 398.475    Building: BROADWAY

Emission Point: 00077  
Height (ft.): 23                      Diameter (in.): 10  
NYTMN (km.): 4662.015    NYTME (km.): 398.475    Building: BROADWAY

Emission Point: 03539  
Height (ft.): 33                      Diameter (in.): 24  
NYTMN (km.): 4662.015    NYTME (km.): 398.475    Building: MLB

**Item 21.3:**

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



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

Emission Unit: U--COMB

Emission Point: 00079

Height (ft.): 46

Diameter (in.): 24

NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: MLB

**Item 21.4:**

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

Emission Unit: U-FTSRC

Emission Point: 00008

Height (ft.): 31

Diameter (in.): 16

NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: BROADWAY

Emission Point: 00058

Height (ft.): 33

Diameter (in.): 21

NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: MLB

Emission Point: 00064

Height (ft.): 37

Diameter (in.): 32

NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: MLB

Emission Point: 00074

Height (ft.): 28

Diameter (in.): 10

NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: MLB

Emission Point: 00075

Height (ft.): 23

Diameter (in.): 2

NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: MLB

**Item 21.5:**

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

Emission Unit: U-HASL1

Emission Point: 00009

Height (ft.): 29

Length (in.): 16

Width (in.): 21

NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: BROADWAY

Emission Point: 00033

Height (ft.): 38

Diameter (in.): 24

NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: BROADWAY

Emission Point: 00057

Height (ft.): 38

Diameter (in.): 24

NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: BROADWAY

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



**Item 21.6:**

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

Emission Unit: U-MECET

Emission Point: 00084

Height (ft.): 26

Diameter (in.): 10

NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: MLB

**Item 21.7:**

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

Emission Unit: U-PLATE

Emission Point: 00006

Height (ft.): 33

Diameter (in.): 48

NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: WPB

Emission Point: 00007

Height (ft.): 34

Diameter (in.): 24

NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: WPB

Emission Point: 00011

Height (ft.): 32

Diameter (in.): 20

NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: WPB

Emission Point: 00029

Height (ft.): 32

Diameter (in.): 4

NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: BROADWAY

Emission Point: 00062

Height (ft.): 40

Diameter (in.): 24

NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: WPB

Emission Point: 00065

Height (ft.): 37

Diameter (in.): 24

NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: MLB

Emission Point: 00081

Height (ft.): 33

Diameter (in.): 14

NYTMN (km.): 4662.122 NYTME (km.): 398.432 Building: WPB

Emission Point: 00082

Height (ft.): 33

Diameter (in.): 12

NYTMN (km.): 4662.122 NYTME (km.): 398.432 Building: WPB



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

Emission Point: 00085  
Height (ft.): 35 Diameter (in.): 34  
NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: WPB

Emission Point: 00086  
Height (ft.): 35 Diameter (in.): 16  
NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: WPB

Emission Point: 00088  
Height (ft.): 35 Diameter (in.): 38  
NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: WPB

**Item 21.8:**

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

Emission Unit: U-SEDES

Emission Point: 00052  
Height (ft.): 32 Diameter (in.): 14  
NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: MLB

Emission Point: 00055  
Height (ft.): 37 Diameter (in.): 10  
NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: WPB

Emission Point: 00066  
Height (ft.): 32 Diameter (in.): 10  
NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: MLB

Emission Point: 00067  
Height (ft.): 32 Diameter (in.): 10  
NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: MLB

Emission Point: 00080  
Height (ft.): 36 Diameter (in.): 12  
NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: WPB

Emission Point: 00087  
Height (ft.): 39 Diameter (in.): 30  
NYTMN (km.): 4662.015 NYTME (km.): 398.475 Building: MLB

**Condition 22: Process Definition By Emission Unit**  
**Effective between the dates of 01/23/2004 and 01/23/2009**

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

**Item 22.1:**

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



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

Emission Unit: U-BAGHO

Process: BH1

Source Classification Code: 3-13-030-01

Process Description:

SOURCES WITHIN BROADWAY BUILDING. THREE INDIVIDUAL BAGHOUSES WHICH CONTROL PARTICULATE EMISSIONS CREATED BY CUTTING AND DRILLING OF PRINTED CIRCUIT BOARDS AND PROCESS HOUSEKEEPING VACUUM SYSTEMS, ARE SUBJECT TO THE GRAIN STANDARD (0.05 GR/DSCF) PURSUANT TO 6 NYCRR PART 212.4 (c).

Emission Source/Control: 15K00 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 69K00 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 70K00 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 15000 - Process

Emission Source/Control: 69000 - Process

Emission Source/Control: 70000 - Process

**Item 22.2:**

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

Emission Unit: U-BAGHO

Process: BH2

Source Classification Code: 3-13-030-01

Process Description:

SOURCES LOCATED WITHIN BUILDING MLB. FIVE INDIVIDUAL BAGHOUSES WHICH CONTROL PARTICULATE EMISSIONS CREATED BY CUTTING AND DRILLING OF PRINTED CIRCUIT BOARDS AND PROCESS HOUSEKEEPING VACUUM SYSTEMS, ARE SUBJECT TO THE GRAIN STANDARD (0.05 GR/DSCF) PURSUANT TO 6 NYCRR 212.4 (c).

Emission Source/Control: 16K00 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 21K00 - Control



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

Control Type: FABRIC FILTER

Emission Source/Control: 53K00 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 54K00 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 68K00 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 16000 - Process

Emission Source/Control: 21000 - Process

Emission Source/Control: 53000 - Process

Emission Source/Control: 54000 - Process

Emission Source/Control: 68000 - Process

**Item 22.3:**

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

Emission Unit: U-BAGHO

Process: BH3

Source Classification Code: 3-13-030-01

Process Description:

SOURCES LOCATED WITHIN BUILDING DCW.  
THREE INDIVIDUAL BAGHOUSES WHICH CONTROL  
PARTICULATE EMISSIONS CREATED BY CUTTING  
AND DRILLING OF PRINTED CIRCUIT BOARDS AND  
PROCESS HOUSEKEEPING VACUUM SYSTEMS, ARE  
SUBJECT TO THE GRAIN STANDARD (0.05  
GR/DSCF) PURSUANT TO 6 NYCRR PART 212.4  
(c).

Emission Source/Control: 71K00 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 72K00 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 73K00 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 71000 - Process



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

Emission Source/Control: 72000 - Process

Emission Source/Control: 73000 - Process

**Item 22.4:**

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

Emission Unit: U-COAT1

Process: CT1

Source Classification Code: 4-02-008-10

Process Description:

DRYING OVENS FOR HAND APPLIED INKS.  
SOURCES WITHIN THIS PROCESS ARE SUBJECT TO  
PART 212.4(a), WHICH REQUIRES AN AMBIENT  
IMPACT ANALYSIS AND LIMITS EMISSIONS OF  
CONTAMINANTS WITH AN ENVIRONMENTAL RATING  
OF A TO LESS THAN 1.0 POUND/HR, AN  
CONTAMINANTS WITH AN ENVIRONMENTAL RATING  
OF B TO LESS THAN 10 POUNDS/HR. PREDICTED  
AMBIENT CONCENTRATIONS MUST BE LESS THAN  
THE ANNUAL AND SHORT-TERM GUIDELINE  
CONCENTRATIONS STATED IN THE MOST RECENT  
DAR-1 (AIR GUIDE 1) GUIDANCE.

Emission Source/Control: 17000 - Process

Emission Source/Control: 18000 - Process

Emission Source/Control: 19000 - Process

Emission Source/Control: 76000 - Process

Emission Source/Control: 77000 - Process

**Item 22.5:**

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

Emission Unit: U-COAT1

Process: CT2

Source Classification Code: 4-02-030-01

Process Description:

AUTOMATED CONVEYORIZED COATING PROCESS.  
SOURCES WITHIN THIS EMISSION UNIT ARE  
ASSOCIATED WITH THE SOLDERMASK CURTAIN  
COATER. EMISSIONS EXHAUST THROUGH A WET  
SCRUBBER AND EMISSION POINT 03539, AND ARE  
SUBJECT TO 6 NYCRR 212.10(c)(4)(i).

Emission Source/Control: 3539K - Control

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



Control Type: WET SCRUBBER

Emission Source/Control: 35390 - Process

**Item 22.6:**

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

Emission Unit: U-COAT1

Process: CT3

Source Classification Code: 4-02-030-01

Process Description:

Automated conveyORIZED coating process with soldermask roll coater to apply an organic solder mask coating. The emission rate potential for VOC is less than 3.0 pounds/hr and is not subject to 6 NYCRR Part 212.10, VOC RACT. EMISSIONS FROM THIS PROCESS ARE SUBJECT TO PART 212.4(a).

Emission Source/Control: 63K00 - Control

Control Type: WET SCRUBBER

Emission Source/Control: 63000 - Process

**Item 22.7:**

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

Emission Unit: U--COMB

Process: GAS

Source Classification Code: 1-02-006-02

Process Description:

This process describes natural gas combustion in the 12.5 million BTU/hr boiler.

Emission Source/Control: 79000 - Combustion

Design Capacity: 12.5 million Btu per hour

**Item 22.8:**

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

Emission Unit: U-FTSRC

Process: USL

Source Classification Code: 3-13-030-01

Process Description:

PRIMARY OPERATING MODE. SOURCES ASSOCIATED WITH VARIOUS MANUFACTURING OPERATIONS, BUT UNRELATED TO OTHER EMISSION UNITS. THESE SOURCES ARE SUBJECT TO 6 NYCRR PARTS 212.6 AND 212.9 (b) TABLE 2.

Emission Source/Control: 08K00 - Control

Control Type: WET SCRUBBER

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



Emission Source/Control: 58K00 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 64K00 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 75K00 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 08000 - Process

Emission Source/Control: 58000 - Process

Emission Source/Control: 64000 - Process

Emission Source/Control: 74000 - Process

Emission Source/Control: 75000 - Process

Emission Source/Control: 78000 - Process

**Item 22.9:**

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

Emission Unit: U-HASL1

Process: HSL

Source Classification Code: 3-13-035-01

Process Description:

PRIMARY OPERATING MODE. SOURCES WITHIN THIS EMISSION UNIT ARE ASSOCIATED WITH HOT AIR SOLDER LEVELING OPERATIONS, AND ARE SUBJECT TO 6 NYCRR PARTS 212.6 AND 212.9 (b) TABLE 2.

Emission Source/Control: 3357K - Control  
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: 33K00 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 57K00 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 09000 - Process

Emission Source/Control: 33000 - Process

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



Emission Source/Control: 57000 - Process

**Item 22.10:**

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

Emission Unit: U-MECET

Process: MEC

Source Classification Code: 3-13-030-61

Process Description:

This process utilizes a microetchant to remove non-ferrous metals from circuit boards to "roughen" the surface and promote better adhesion capabilities for soldermask coating.

Emission Source/Control: 84K00 - Control

Control Type: WET SCRUBBER

Emission Source/Control: 84000 - Process

**Item 22.11:**

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

Emission Unit: U-PLATE

Process: EPL

Source Classification Code: 3-13-030-01

Process Description:

This process is the operation of a precious metals electroplating line with two wet scrubber control devices, located in the Wet Process Building.

Emission Source/Control: 85K00 - Control

Control Type: WET SCRUBBER

Emission Source/Control: 86K00 - Control

Control Type: WET SCRUBBER

Emission Source/Control: 85086 - Process

**Item 22.12:**

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

Emission Unit: U-PLATE

Process: LUD

Process Description:

This source is associated with electrolytic plating processes in wet process building (WPB).

Emission Source/Control: 88K00 - Control

Control Type: WET SCRUBBER

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



Emission Source/Control: 88000 - Process

**Item 22.13:**

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

Emission Unit: U-PLATE

Process: PAL

Source Classification Code: 3-09-010-01

Process Description:

SOURCES WITHIN THIS EMISSION UNIT ARE  
ASSOCIATED WITH VARIOUS PLATING PROCESSES  
IN THE FACILITY.

Emission Source/Control: 06K00 - Control

Control Type: IMPINGEMENT PLATE SCRUBBER

Emission Source/Control: 07K00 - Control

Control Type: WET SCRUBBER

Emission Source/Control: 11K00 - Control

Control Type: WET SCRUBBER

Emission Source/Control: 62K00 - Control

Control Type: WET SCRUBBER

Emission Source/Control: 65K00 - Control

Control Type: WET SCRUBBER

Emission Source/Control: 81K00 - Control

Control Type: WET SCRUBBER

Emission Source/Control: 82K00 - Control

Control Type: WET SCRUBBER

Emission Source/Control: 83K00 - Control

Control Type: WET SCRUBBER

Emission Source/Control: 06000 - Process

Emission Source/Control: 07000 - Process

Emission Source/Control: 11000 - Process

Emission Source/Control: 29000 - Process

Emission Source/Control: 62000 - Process



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

Emission Source/Control: 65000 - Process

Emission Source/Control: 81000 - Process

Emission Source/Control: 82000 - Process

Emission Source/Control: 83000 - Process

**Item 22.14:**

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

Emission Unit: U-SEDES

Process: DES

Source Classification Code: 3-13-030-62

Process Description:

SOURCES WITHIN THIS EMISSION UNIT ARE  
ASSOCIATED WITH THE DEVELOP-ETCH-STRIP  
PROCESS AND ARE SUBJECT TO 6 NYCRR PARTS  
212.6 AND 212.4(a) and 212.9(b), TABLE 2.

Emission Source/Control: 52K00 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 55K00 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 66K00 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 67K00 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 80K00 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 87K00 - Control  
Control Type: WET SCRUBBER

Emission Source/Control: 52000 - Process

Emission Source/Control: 55000 - Process

Emission Source/Control: 66000 - Process

Emission Source/Control: 67000 - Process

Emission Source/Control: 80000 - Process



**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**

Emission Source/Control: 87000 - Process

Emission Source/Control: 87001 - Process

Emission Source/Control: 87002 - Process

Emission Source/Control: 87003 - Process

Emission Source/Control: 87004 - Process

Emission Source/Control: 87005 - Process

Emission Source/Control: 87006 - Process

**Condition 23: Compliance Demonstration**  
**Effective between the dates of 01/23/2004 and 01/23/2009**

**Applicable State Requirement: 6NYCRR 212.10(c)(4)(i)**

**Item 23.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-COAT1

Process: CT3

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 23.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The roll coater coating process shall not emit VOC with an emission rate potential equal to or greater than 3.0 pounds per hour.

VOC emissions are controlled with a wet scrubber. All air pollution control devices must be operated and maintained in a satisfactory state of repair. Within 120 days of receipt of this permit, the owner or operator shall submit to the DEC a plan for monitoring and recording scrubber parameters to establish proper operating ranges.

Compliance shall be determined using a stack emissions test conducted in accordance with EPA test methods (EPA

**New York State Department of Environmental Conservation**

**Permit ID: 7-4930-00013/00087**

**Facility DEC ID: 7493000013**



Method 18). Within 30 days of receipt of a written request from the DEC to conduct testing, the owner or operator shall submit to the DEC for approval a test protocol. Testing shall be conducted within 60 days of DEC approval of the protocol, and a final report shall be submitted to DEC, in triplicate, within 60 days of completion of the testing.

On an annual basis, beginning one year after receipt of this permit, and on a calendar year basis ending December 31 thereafter, the owner or operator shall submit to the DEC a report stating whether any changes were made to the operation of these emissions sources, or the air pollution control equipment, that would result in an increase in emissions. The first report shall be due 30 days after the end of the first 12 month rolling period, commencing with the receipt of this permit. Thereafter, reports shall be due January 30.

Upper Permit Limit: 3.0 pounds per hour

Reference Test Method: EPA approved methods

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2005.

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