



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL MODIFICATION  
CUYAHOGA COUNTY**

**CERTIFIED MAIL**

Street Address:

50 West Town Street, Suite 700

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:  
Lazarus Gov. Center  
P.O. Box 1049

**Application No: 13-03652**

**Fac ID: 1318588243**

**DATE: 10/4/2007**

Add a Nickel Plating Services  
Delores Norsic  
7105 Krick Road  
Walton Hills, OH 44146-0000

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
309 South Fourth Street, Room 222  
Columbus, OH 43215

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

CC: USEPA

CLAA



Permit To Install  
Terms and Conditions

Issue Date: 10/4/2007  
Effective Date: 10/4/2007

**FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 13-03652**

Application Number: 13-03652  
Facility ID: 1318588243  
Permit Fee: **\$0**  
Name of Facility: Add a Nickel Plating Services  
Person to Contact: Delores Norsic  
Address: 7105 Krick Road  
Walton Hills, OH 44146-0000

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**7105 Krick Road**  
**Walton Hills, Ohio**

Description of proposed emissions unit(s):  
**Open top vapor degreasers L001 and L002. Need to remove lb/hr limitations and hours/year limitations from permit.**

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski  
Director

**Add a Nickel Plating Services**  
**PTI Application: 13-03652**  
**Modification Issued: 10/4/2007**

**Facility ID: 131858824**

## **Part I - GENERAL TERMS AND CONDITIONS**

### **A. Permit to Install General Terms and Conditions**

#### **1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### **2. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **3. Records Retention Requirements**

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### **4. Inspections and Information Requests**

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

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the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

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The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

#### **10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

#### **11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

#### **12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

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**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

**14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**15. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

**B. Permit to Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)**  
**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
Trichloroethylene (TCE)	5.54

Add a

PTI A

Modification Issued: 10/4/2007

Emissions Unit ID: L001

**PART II - SPECIAL****TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
L001 - Open top vapor degreaser using trichloroethylene with cover, and 1.0 freeboard ratio	OAC rule 3745-31-05(A)(3) 40 CFR 63, Subpart T (Alternative Standards 40 CFR 63.464)	2.77 TPY of trichloroethylene See A.2.a, A.2.b, and A.2.c below.
Modified		

The terms and conditions of this permit supercede the terms and conditions of PTI 13-03652 issued on 9/12/2000.

OAC rule 3745-35-07(B) Synthetic Minor to avoid Title V

See A.2.a below. .

**2. Additional Terms and Conditions**

- 2.a The permittee shall ensure that the trichloroethylene monthly emissions from the solvent cleaning machine do not exceed the 3-month rolling average limit of 150 kilograms/square meter/month.
- 2.b The permittee shall ensure the solvent cleaning machine contains only clean liquid solvent on the first day of every month and is filled to the same fill-line. The monthly emissions shall be calculated using the records of all solvent additions, deletions, and recoveries from each month.
- 2.c The permittee shall maintain a log of solvent additions and deletions for the solvent cleaning machine.

Add a

PTI A

Modification Issued: 10/4/2007

Emissions Unit ID: L001

## **B. Operational Restrictions**

1. On the first operating day of every month the permittee shall ensure that the solvent cleaning machine system contains only clean liquid solvent. This includes, but is not limited to, fresh unused solvent, recycled solvent, and used solvent that has been cleaned of soils. A fill line must be indicated during the first month the measurements are made. The solvent level within the machine must be returned to the same fill line each month, immediately prior to calculating monthly emissions and/or the overall cleaning system's control efficiency. The solvent cleaning machine does not have to be emptied and filled with fresh unused solvent prior to the calculations.

## **C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain the following records either in electronic or written form for a period of five years:
  - a. the dates and amounts of trichloroethylene that are added to the solvent cleaning machine;
  - b. the trichloroethylene composition of wastes removed from the cleaning machines using the procedures described in the "Testing Requirements" section of this permit; and
  - c. calculation sheets showing how the monthly emissions and the rolling 3-month average emissions of trichloroethylene from the solvent cleaning machine were determined, and the results of all calculations.

## **D. Reporting Requirements**

1. The permittee shall submit an initial notification report as soon as practicable before the construction or reconstruction is planned to commence. This report shall include all of the information required in 40 CFR 63.5(d)(1) of subpart A, with the following revisions and additions:
  - a. The report shall include a brief description of the solvent cleaning machine type (batch vapor, batch cold, vapor-in-line, or cold-in-line), solvent/air interface area, and existing controls.
  - b. The report shall include the anticipated compliance approach for the solvent

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cleaning machine.

- c. The report shall include an estimate of the annual trichloroethylene consumption for the solvent cleaning machine in lieu of the requirements of 40 CFR 63.5(d)(1)(ii)(H), subpart A.
2. The permittee shall submit an initial statement of compliance no later than 150 days after startup. Each initial statement of compliance shall contain the following:
    - a. The name and address of the permittee of the solvent cleaning machine.
    - b. The address (i.e., physical location) of the solvent cleaning machine.
    - c. The solvent/air interface for the solvent cleaning machine.
    - d. The results of the first 3-month average of trichloroethylene emission calculations.
  3. The permittee shall submit an annual solvent emission report by February 1 of each year. The report shall cover the previous calendar year. The report shall contain the following:
    - a. The size (solvent-air interface) and type of the solvent cleaning machine.
    - b. The monthly trichloroethylene consumption for the solvent cleaning machine in kilograms per month.
    - c. The 3-month monthly rolling average trichloroethylene emissions estimates calculated each month using the method as described in the "Testing Requirements" section of this permit.
  4. The permittee shall submit an exceedance report on a semiannual basis. If the trichloroethylene three-month rolling average of 150 kilograms/square meter/month is exceeded, the permittee shall begin to submit a quarterly report until such time that the permittee requests and receives approval of a less frequent reporting frequency from the Cleveland Division of Air Quality (CDAQ). The permittee may receive approval of less frequent reporting if the following conditions are met: (1) The emissions unit has demonstrated a full year of compliance without an exceedance, (2) the permittee continues to comply with all relevant recordkeeping and monitoring requirements specified in 40 CFR 63.1, General Provisions, and (3) the CDAQ does not object to a

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**Emissions Unit ID: L001**

reduced frequency of reporting for the affected emissions unit as provided in paragraph (e)(3)(iii) of subpart A, 40 CFR 63.1, General Provisions. Each exceedance report shall be delivered or post marked by the 30<sup>th</sup> day following the reporting period. Each exceedance report shall contain the following:

- a. The reason and description of the exceedance and action(s) taken to comply with 40 CFR 63.463 (e) and (f) including written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to acceptable levels.
- b. If no exceedance has occurred, a statement to that effect shall be submitted.

## **E. Testing Requirements**

1. Compliance with the emission limitations in the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitation -  
2.77 TPY of trichloroethylene emissions

### Applicable Compliance Method-

The annual emission limitation was established by multiplying the maximum emissions allowed by the 3 month rolling average by 12 months/year.

Therefore, compliance with the tons per year limitation shall be assumed provided compliance is maintained with the 3 month rolling average.

- b. Emission Limitation-  
Emissions of Trichloroethylene shall not exceed 150 kg/m<sup>2</sup> as a 3-month rolling average.

### Applicable Compliance Method-

Using the records of all solvent additions and deletions from the previous month, the permittee shall calculate emissions using the following equation:

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

where:

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

per month)

$S_{Ai}$  = the total amount of halogenated HAP liquid solvent added to the solvent cleaning machine during the most recent monthly reporting period  $i$  (kilograms of solvent per month)

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

\* $SSR_i$  = the total amount of halogenated HAP liquid solvent removed from the solvent cleaning machine in solid waste, during the most recent monthly reporting period  $i$  (kilograms of solvent per month)

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

\* The permittee shall determine  $SSR_i$  from tests conducted using reference method 25d or from engineering calculations included in the compliance report.

The permittee shall determine the monthly rolling average,  $EA$ , for the 3-month period ending with the most recent month's reporting period using the following equation:

$$EA_i = (\sum_{j=1}^3 E_i) / 3, \text{ where the summation is from } j=1 \text{ to } j=3$$

where:

$EA_i$  = the average halogenated HAP solvent emissions over the preceding 3 monthly reporting periods (kilograms of solvent per square meter of solvent/air interface area per month)

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

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

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

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

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**PTI Application: 12 02652**  
**Modif**

**Facility ID: 131858824**

**Emissions Unit ID: L001**

**F. Miscellaneous Requirements**

The following terms and conditions in this permit to install are federally enforceable: Parts A, B, C, D and E.

**Add a  
PTI A**

Emissions Unit ID: **L002**

**Modification Issued: 10/4/2007**

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
L002 - Open top vapor degreaser using trichloroethylene with cover, and 1.0 freeboard ratio  Modified	OAC rule 3745-31-05(A)(3)  40 CFR 63, Subpart T (Alternative Standards 40 CFR 63.464)	2.77 TPY of trichloroethylene  See A.2.a, A.2.b, and A.2.c below.
The terms and conditions of this permit supercede the terms and conditions of PTI 13-03652 issued on 9/12/2000.	OAC rule 3745-35-07(B) Synthetic Minor to avoid Title V	See A.2.a below. .

**2. Additional Terms and Conditions**

- 2.a The permittee shall ensure that the trichloroethylene monthly emissions from the solvent cleaning machine do not exceed the 3-month rolling average limit of 150 kilograms/square meter/month.
- 2.b The permittee shall ensure the solvent cleaning machine contains only clean liquid solvent on the first day of every month and is filled to the same fill-line. The monthly emissions shall be calculated using the records of all solvent additions, deletions, and recoveries from each month.
- 2.c The permittee shall maintain a log of solvent additions and deletions for the solvent cleaning machine.

**Add a****PTI A****Modification Issued: 10/4/2007**Emissions Unit ID: **L002****B. Operational Restrictions**

1. On the first operating day of every month the permittee shall ensure that the solvent cleaning machine system contains only clean liquid solvent. This includes, but is not limited to, fresh unused solvent, recycled solvent, and used solvent that has been cleaned of soils. A fill line must be indicated during the first month the measurements are made. The solvent level within the machine must be returned to the same fill line each month, immediately prior to calculating monthly emissions and/or the overall cleaning system's control efficiency. The solvent cleaning machine does not have to be emptied and filled with fresh unused solvent prior to the calculations.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain the following records either in electronic or written form for a period of five years:
  - a. the dates and amounts of trichloroethylene that are added to the solvent cleaning machine;
  - b. the trichloroethylene composition of wastes removed from the cleaning machines using the procedures described in the "Testing Requirements" section of this permit; and
  - c. calculation sheets showing how the monthly emissions and the rolling 3-month average emissions of trichloroethylene from the solvent cleaning machine were determined, and the results of all calculations.

**D. Reporting Requirements**

1. The permittee shall submit an initial notification report as soon as practicable before the construction or reconstruction is planned to commence. This report shall include all of the information required in 40 CFR 63.5(d)(1) of subpart A, with the following revisions and additions:
  - a. The report shall include a brief description of the solvent cleaning machine type (batch vapor, batch cold, vapor-in-line, or cold-in-line), solvent/air interface area, and existing controls.
  - b. The report shall include the anticipated compliance approach for the solvent cleaning machine.

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**PTI Application: 12-02652**  
**Modif**

**Facility ID: 131858824**

**Emissions Unit ID: L002**

- c. The report shall include an estimate of the annual trichloroethylene consumption for the solvent cleaning machine in lieu of the requirements of 40 CFR 63.5(d)(1)(ii)(H), subpart A.
2. The permittee shall submit an initial statement of compliance no later than 150 days after startup. Each initial statement of compliance shall contain the following:
  - a. The name and address of the permittee of the solvent cleaning machine.
  - b. The address (i.e., physical location) of the solvent cleaning machine.
  - c. The solvent/air interface for the solvent cleaning machine.
  - d. The results of the first 3-month average of trichloroethylene emission calculations.
3. The permittee shall submit an annual solvent emission report by February 1 of each year. The report shall cover the previous calendar year. The report shall contain the following:
  - a. The size (solvent-air interface) and type of the solvent cleaning machine.
  - b. The monthly trichloroethylene consumption for the solvent cleaning machine in kilograms per month.
  - c. The 3-month monthly rolling average trichloroethylene emissions estimates calculated each month using the method as described in the "Testing Requirements" section of this permit.
4. The permittee shall submit an exceedance report on a semiannual basis. If the trichloroethylene three-month rolling average of 150 kilograms/square meter/month is exceeded, the permittee shall begin to submit a quarterly report until such time that the permittee requests and receives approval of a less frequent reporting frequency from the Cleveland Division of Air Quality (CDAQ). The permittee may receive approval of less frequent reporting if the following conditions are met: (1) The emissions unit has demonstrated a full year of compliance without an exceedance, (2) the permittee continues to comply with all relevant recordkeeping and monitoring requirements specified in 40 CFR 63.1, General Provisions, and (3) the CDAQ does not object to a reduced frequency of reporting for the affected emissions unit as provided in paragraph (e)(3)(iii) of subpart A, 40 CFR 63.1, General Provisions. Each exceedance report

**Add a  
PTI A**Emissions Unit ID: **L002****Modification Issued: 10/4/2007**

shall be delivered or post marked by the 30<sup>th</sup> day following the reporting period. Each exceedance report shall contain the following:

- a. The reason and description of the exceedance and action(s) taken to comply with 40 CFR 63.463 (e) and (f) including written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to acceptable levels.
- b. If no exceedance has occurred, a statement to that effect shall be submitted.

**E. Testing Requirements**

1. Compliance with the emission limitations in the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitation -  
2.77 TPY of trichloroethylene emissions

## Applicable Compliance Method-

The annual emission limitation was established by multiplying the maximum emissions allowed by the 3 month rolling average by 12 months/year.

Therefore, compliance with the tons per year limitation shall be assumed provided compliance is maintained with the 3 month rolling average.

- b. Emission Limitation-  
Emissions of Trichloroethylene shall not exceed 150 kg/m<sup>2</sup> as a 3-month rolling average.

## Applicable Compliance Method-

Using the records of all solvent additions and deletions from the previous month, the permittee shall calculate emissions using the following equation:

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

where:

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

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**Modif**

**Facility ID: 131858824**

**Emissions Unit ID: L002**

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

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

\* $SSR_i$  = the total amount of halogenated HAP liquid solvent removed from the solvent cleaning machine in solid waste, during the most recent monthly reporting period  $i$  (kilograms of solvent per month)

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

\* The permittee shall determine  $SSR_i$  from tests conducted using reference method 25d or from engineering calculations included in the compliance report.

The permittee shall determine the monthly rolling average,  $EA$ , for the 3-month period ending with the most recent month's reporting period using the following equation:

$$EA_i = (\sum_{j=1}^3 E_i) / 3, \text{ where the summation is from } j=1 \text{ to } j=3$$

where:

$EA_i$  = the average halogenated HAP solvent emissions over the preceding 3 monthly reporting periods (kilograms of solvent per square meter of solvent/air interface area per month)

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

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

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

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

## **F. Miscellaneous Requirements**

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**Add a**

**PTI A**

**Modification Issued: 10/4/2007**

Emissions Unit ID: **L002**

The following terms and conditions in this permit to install are federally enforceable: Parts A, B, C, D and E.