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1.0 SOURCE IDENTIFICATION

1.1 Source

Chem Processing, Inc.
3910 Linden Oaks Drive
Rockford, Illinois 61109
815/874-8118

I.D. No.: 201030BAL
Standard Industrial Classification: 3471, Plating and Polishing
3479, Coating, Engraving and
Allied Services

1.2 Owner/Parent Company

Chem Processing, Inc.
3910 Linden Oaks Drive
Rockford, Illinois 61109

1.3 Operator

Chem Processing, Inc.
3910 Linden Oaks Drive
Rockford, Illinois 61109

Jim DeSonia
815/874-8118

1.4 General Source Description

Chem Processing, Inc. is located at 3910 Linden Oaks Drive in Rockford, Illinois. The source performs electroplating and surface coating on miscellaneous metal parts.

2.0 LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT

Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
Btu	British thermal unit
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CAM	Compliance Assurance Monitoring
CFR	Code of Federal Regulations
cm	centimeter
dscf	dry standard cubic foot
dscm	dry standard cubic meter
ERMS	Emissions Reduction Market System
ft ²	square foot
gal	gallon
gr	grain
HAP	Hazardous Air Pollutant
HCl	Hydrochloric Acid
hr	hour
IAC	Illinois Administrative Code
I.D. No.	Identification Number of Source, assigned by Illinois EPA
ILCS	Illinois Compiled Statutes
Illinois EPA	Illinois Environmental Protection Agency
in	inch
kg	kilogram
kW	kilowatts
lb	pound
m ²	square meter
Mg	megagram
mg	milligram
MEK	Methyl Ethyl Ketone
mmBtu	Million British thermal units
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standards
PM	Particulate Matter
PM ₁₀	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
ppm	parts per million
PSD	Prevention of Significant Deterioration
RMP	Risk Management Plan
SO ₂	Sulfur Dioxide
T1	Title I - identifies Title I conditions that have been carried over from an existing permit

T1N	Title I New - identifies Title I conditions that are being established in this permit
T1R	Title I Revised - identifies Title I conditions that have been carried over from an existing permit and subsequently revised in this permit
USEPA	United States Environmental Protection Agency
VOM	Volatile Organic Material
yr	year

3.0 INSIGNIFICANT ACTIVITIES

3.1 Identification of Insignificant Activities

The following activities at the source constitute insignificant activities as specified in 35 IAC 201.210:

- 3.1.1 Activities determined by the Illinois EPA to be insignificant activities, pursuant to 35 IAC 201.210(a)(1) and 201.211, as follows:

MEK Solvent Still
Process Boilers (4.2 mmBtu/hr each)

- 3.1.2 Activities that are insignificant activities based upon maximum emissions, pursuant to 35 IAC 201.210(a)(2) or (a)(3), as follows:

Non-plating Process Tanks

- 3.1.3 Activities that are insignificant activities based upon their type or character, pursuant to 35 IAC 201.210(a)(4) through (18), as follows:

Direct combustion units designed and used for comfort heating purposes and fuel combustion emission units as follows: (A) Units with a rated heat input capacity of less than 2.5 mmBtu/hr that fire only natural gas, propane, or liquefied petroleum gas; (B) Units with a rated heat input capacity of less than 1.0 mmBtu/hr that fire only oil or oil in combination with only natural gas, propane, or liquefied petroleum gas; and (C) Units with a rated heat input capacity of less than 200,000 Btu/hr which never burn refuse, or treated or chemically contaminated wood [35 IAC 201.210(a)(4)].

Storage tanks of organic liquids with a capacity of less than 10,000 gallons and an annual throughput of less than 100,000 gallons per year, provided the storage tank is not used for the storage of gasoline or any material listed as a HAP pursuant to Section 112(b) of the CAA [35 IAC 201.210(a)(10)].

Storage tanks of any size containing virgin or re-refined distillate oil, hydrocarbon condensate from natural gas pipeline or storage systems, lubricating oil, or residual fuel oils [35 IAC 201.210(a)(11)].

Storage tanks of any size containing exclusively soaps, detergents, surfactants, glycerin, waxes, vegetable oils, greases, animal fats, sweeteners, corn syrup, aqueous salt solutions, or aqueous caustic solutions, provided an organic solvent has

not been mixed with such materials [35 IAC 201.210(a)(17)].

3.1.4 Activities that are considered insignificant activities pursuant to 35 IAC 201.210(b).

3.2 Compliance with Applicable Requirements

Insignificant activities are subject to applicable requirements notwithstanding status as insignificant activities. In particular, in addition to regulations of general applicability, such as 35 IAC 212.301 and 212.123 (Condition 5.2.2), the Permittee shall comply with the following requirements, as applicable:

3.2.1 For each cold cleaning degreaser, the Permittee shall comply with the applicable equipment and operating requirements of 35 IAC 215.182, 218.182, or 219.182.

3.2.2 For each particulate matter process emission unit, the Permittee shall comply with the applicable particulate matter emission limit of 35 IAC 212.321 or 212.322. For example, the particulate matter emissions from a process emission unit shall not exceed 0.55 pounds per hour if the emission unit's process weight rate is 100 pounds per hour or less, pursuant to 35 IAC 266.110.

3.2.3 For each organic material emission unit that uses organic material, e.g., a mixer or printing line, the Permittee shall comply with the applicable VOM emission limit of 35 IAC 215.301, 218.301, or 219.301, which requires that organic material emissions not exceed 8.0 pounds per hour or do not qualify as photochemically reactive material as defined in 35 IAC 211.4690.

3.3 Addition of Insignificant Activities

3.3.1 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type that is identified in Condition 3.1, until the renewal application for this permit is submitted, pursuant to 35 IAC 201.212(a).

3.3.2 The Permittee must notify the Illinois EPA of any proposed addition of a new insignificant activity of a type addressed by 35 IAC 201.210(a) and 201.211 other than those identified in Condition 3.1, pursuant to Section 39.5(12)(b) of the Act.

3.3.3 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type identified in 35 IAC 201.210(b).

4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE

Emission Unit/Group	Description	Date Constructed	Emission Control Equipment
Coating Room	Paint Spray Equipment (3 spray booths, 3 spray tables, and drying ovens)	April 1997	Filters
	Dip Spins (4 coating tanks)	June 2001	None
Vapor Degreaser	Metal Parts Cleaning	June 1997	None
Plating Lines			
	Cad Line #50	July 1995	None
	P-Mag Line #51	May 2001	Wetting Agent Fume Suppressant
	Phos/Zinc Line #52	July 1995	None
	Electroless Nickel Line #53	July 1995	None
	Hard Chrome Plating Line #55	June 1995	Spectra-U Mist Eliminator
	HCl Cleaning Line	May 2001	None
Blast Room	Blast Cleaning Equipment (11 blasting units)	April 1997	Cyclones, Filters

5.0 OVERALL SOURCE CONDITIONS

5.1 Source Description

- 5.1.1 This permit is issued based on the source requiring a CAAPP permit as a major source of HAP emissions.

5.2 Applicable Regulations

- 5.2.1 Specific emission units at this source are subject to particular regulations as set forth in Section 7 (Unit-Specific Conditions) of this permit.
- 5.2.2 In addition, emission units at this source are subject to the following regulations of general applicability:
 - a. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.

Compliance with this requirement is considered to be assured by the inherent nature of operations at this source, as demonstrated by historical operation.
 - b. No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, pursuant to 35 IAC 212.123(a), except as allowed by 35 IAC 212.123(b) and 212.124.
- 5.2.3 Ozone Depleting Substances

The Permittee shall comply with the standards for recycling and emissions reduction of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

5.2.4 Risk Management Plan

Should this stationary source, as defined in 40 CFR Section 68.3, become subject to the Accidental Release Prevention regulations in 40 CFR Part 68, then the owner or operator shall submit [40 CFR 68.215(a)(2)(i) and (ii)]:

- a. A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or
- b. A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan (RMP), as part of the annual compliance certification required by 40 CFR Part 70 or 71.

- 5.2.5 a. Should this stationary source become subject to a regulation under 40 CFR Parts 60, 61, or 63, or 35 IAC after the date issued of this permit, then the owner or operator shall, in accordance with the applicable regulation(s), comply with the applicable requirements by the date(s) specified and shall certify compliance with the applicable requirements of such regulation(s) as part of the annual compliance certification, as required by 40 CFR Part 70 or 71.
- b. No later than upon the submittal for renewal of this permit, the owner or operator shall submit, as part of an application, the necessary information to address either the non-applicability of, or demonstrate compliance with all applicable requirements of any potentially applicable regulation which was promulgated after the date issued of this permit.
- c. This stationary source will be subject to 40 CFR Part 63, Subpart M, Miscellaneous Metal Parts and Products (Surface Coating), when such rule becomes final and effective. The Permittee shall comply with the applicable requirements of such regulation by the date(s) specified in such regulation and shall certify compliance with the applicable requirements of such regulation as part of the annual compliance certification required by 40 CFR Part 70 or 71

beginning in the year that compliance is required under a final and effective rule.

5.2.6 Episode Action Plan

- a. If the source is required to have an episode action plan pursuant to 35 IAC 244.142, the Permittee shall maintain at the source and have on file with the Illinois EPA a written episode action plan (plan) for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The plan shall contain the information specified in 35 IAC 244.144.
- b. The Permittee shall immediately implement the appropriate steps described in this plan should an air pollution alert or emergency be declared.
- c. If a change occurs at the source which requires a revision of the plan (e.g., operational change, change in the source contact person), a copy of the revised plan shall be submitted to the Illinois EPA for review within 30 days of the change. Such plans shall be further revised if disapproved by the Illinois EPA.
- d. For sources required to have a plan pursuant to 35 IAC 244.142, a copy of the original plan and any subsequent revisions shall be sent to:
 - i. Illinois EPA, Compliance Section; and
 - ii. For sources located in Cook County and outside of the city of Chicago: Cook County Department of Environmental Control; or
 - iii. For sources located within the city of Chicago: Chicago Department of Environmental Control.

5.3 Non-Applicability of Regulations of Concern

None

5.4 Source-Wide Operational and Production Limits and Work Practices

In addition to the source-wide requirements in the Standard Permit Conditions in Section 9, the Permittee shall fulfill the following source-wide operational and production limitations and/or work practice requirements:

None

5.5 Source-Wide Emission Limitations

5.5.1 Permitted Emissions for Fees

The annual emissions from the source, not considering insignificant activities as addressed by Section 3.0 of this permit, shall not exceed the following limitations. The overall source emissions shall be determined by adding emissions from all emission units. Compliance with these limits shall be determined on a calendar year basis. These limitations (Condition 5.5.1) are set for the purpose of establishing fees and are not federally enforceable.

Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	24.27
Sulfur Dioxide (SO ₂)	--
Particulate Matter (PM)	5.98
Nitrogen Oxides (NO _x)	--
HAP, not included in VOM or PM	--
TOTAL	30.25

5.5.2 Emissions of Hazardous Air Pollutants

Source-wide emission limitations for HAPs as listed in Section 112(b) of the CAA are not set. This source is considered to be a major source of HAPs.

5.5.3 Other Source-Wide Emission Limitations

The annual emissions from the source shall not exceed the following limitations:

Pollutant	Emissions (Tons/Year)	Underlying Rules
VOM	24.23	35 IAC Part 215.206(a)

The limits on VOM are limitations established in Permit 01030068. These limits ensure that the coating lines are not subject to the material limitations or control requirements of 35 IAC Part 215, Subpart F, Coating Operations.

Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

5.6 General Recordkeeping Requirements

5.6.1 Emission Records

The Permittee shall maintain records of the following items for the source to demonstrate compliance with Condition 5.5.1, pursuant to Section 39.5(7)(b) of the Act:

Total annual emissions on a calendar year basis for the emission units covered by Section 7 (Unit Specific Conditions) of this permit.

5.6.2 Records for VOM and HAP Emissions

The Permittee shall maintain records of the following items for the source quantify annual VOM and HAP emissions, so as to demonstrate compliance with the annual emission limits in Condition 5.5:

- a. Aggregate monthly VOM emissions from emission units included in Section 7 of this permit; and
- b. Aggregate monthly HAP emissions from emission units included in Sections 3 and 7 of this permit, calculated as a fraction of VOM emissions according to vapor weight percent.

5.6.3 Records for Operating Scenarios

N/A

5.6.4 Retention and Availability of Records

- a. All records and logs required by this permit shall be retained for at least five years from the date of entry (unless a longer retention period is specified by the particular recordkeeping provision herein), shall be kept at a location at the source that is readily accessible to the Illinois EPA or USEPA, and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request.
- b. The Permittee shall retrieve and print, on paper during normal source office hours, any records retained in an electronic format (e.g., computer) in response to an Illinois EPA or USEPA request for records during the course of a source inspection.

5.7 General Reporting Requirements

5.7.1 General Source-Wide Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the source with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

5.7.2 Annual Emissions Report

The annual emissions report required pursuant to Condition 9.7 shall contain emissions information for the previous calendar year.

5.7.3 Annual Reporting of HAP Emissions

The Permittee shall submit an annual report to the Illinois EPA, Compliance Section, on HAP emissions from the source. This may be included in the annual emissions report required pursuant to Condition 9.7.

5.8 General Operational Flexibility/Anticipated Operating Scenarios

N/A

5.9 General Compliance Procedures

5.9.1 General Procedures for Calculating Emissions

Compliance with the source-wide emission limits specified in Condition 5.5 shall be based on the recordkeeping and reporting requirements of Conditions 5.6 and 5.7, and compliance procedures in Section 7 (Unit Specific Conditions) of this permit.

- a. For the purpose of estimating HAP emissions from equipment at the source, the vapor weight percent of each HAP for each organic liquid times the VOM emissions contributed by that organic liquid is acceptable.

6.0 NOT APPLICABLE TO THIS PERMIT

7.0 UNIT SPECIFIC CONDITIONS

7.1 Unit - Coating Room
Control - Filters

7.1.1 Description

The coating room consists of spray booths, spray tables, dip spins, and drying ovens. Paints used in this room are solvent based, with methyl ethyl ketone as the major solvent. Parts may be treated using the painting process or in combination with other treatment processes (degreaser, plating lines). Following the coating operation, parts are shipped to the customer. Coating operations generate VOM, HAP, and PM emissions from evaporation of the solvents contained in or added to the coatings and overspray of the coatings. PM emissions are controlled by filters.

A solvent still recovers solvent for reuse from waste paint and spent cleanup solvent. The solvent still is considered an insignificant activity and is listed in Section 3 of this permit.

7.1.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit/Group	Description	Emission Control Equipment
Coating Room	Paint Spray Equipment (3 spray booths, 3 spray tables, and drying ovens)	Filters
	Dip Spins (4 coating tanks)	None

7.1.3 Applicability Provisions and Applicable Regulations

- a. An "affected coating operation" for the purpose of these unit-specific conditions, is a booth, tank, or other apparatus specified in Condition 7.1.2 which is used to apply coating to a metal substrate. This term includes drying areas or ovens where a coating is dried or cured.
- b. The affected coating operations are subject to 35 IAC 215, Subpart K, Use of Organic Material, which provides that no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from any emission unit, except as provided in 35 IAC 215.302 and the following exception: If no odor nuisance exists the limitation of 35 IAC 215 Subpart K shall apply only to photochemically reactive material [35 IAC 215.301].

- c. The affected coating operations are subject to 35 IAC 212.321(a), which provides that no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 (see also Attachment 2) [35 IAC 212.321(a)].

7.1.4 Non-Applicability of Regulations of Concern

- a. This permit is issued based on the affected coating operations not being subject to 35 IAC 215.204, because the limitations of this section shall not apply to coating plants in which emissions of VOM will not exceed 22.7 Mg/yr (25 ton/yr), in the absence of air pollution control equipment [35 IAC 215.206(a)(1)]. VOM emissions at this source are limited to less than 25 ton/yr in Condition 5.5.3.
- b. This permit is issued based on the affected coating operations not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the affected coating operations do not have potential pre-control device emissions of the applicable regulated air pollutant that equals or exceeds major source threshold levels.

7.1.5 Operational And Production Limits And Work Practices

- a. The Permittee shall operate, maintain, and replace the filters in a manner that assures compliance with the conditions of this section.
- b. An adequate inventory of spare filters shall be maintained.

7.1.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected coating operations are subject to the following:

- a. Emissions from the affected coating operations shall not exceed the following limits:

<u>Equipment</u>	<u>VOM Emissions</u>	
	<u>(Ton/Month)</u>	<u>(Ton/Year)</u>
Dip Spins	1.00	9.80
All Emission Units	1.50	15.03

These limits are based on the maximum coating usage and VOM emissions calculated using the procedures in Condition 7.1.12.

Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total) [T1].

The above limitations were established in Permit 01030068, pursuant to 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits ensure that the construction and/or modification addressed in the aforementioned permit does not constitute a new major source or major modification pursuant to Title I of the CAA, specifically the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21. These limits also ensure that the affected coating operations are not subject to the control requirements of 35 IAC Part 215, Subpart F, Coating Operations [T1].

7.1.7 Testing Requirements

- a. The VOM content of coatings and other VOM containing raw material shall be determined by Method 24, 40 CFR Part 60, Appendix A, incorporated by reference in 35 IAC 215.105 except for glues and adhesive coatings, two component reactive coatings forming volatile reaction products, coatings requiring energy other than heat to initiate curing, and coatings requiring high temperature catalysis for curing, providing the person proposing testing of the material submits to the Illinois EPA proof that the Method 24 results would not be representative and proof that a proposed alternative test method gives representative, accurate test results. Any alternate test method must be approved by the Illinois EPA which shall consider data comparing the performance of the proposed alternative to the performance of the approved test method(s). If the Illinois EPA determines that such data demonstrates that the proposed alternative will achieve results equivalent to the approved test method(s), the Illinois EPA shall approve the proposed alternative [35 IAC 215.208(a)].
- b. As an alternative to Condition 7.1.7(a) the manufacturer's specifications for VOM content for coatings may be used if such manufacturer specifications are based on results of tests of the VOM content conducted in accordance with methods specified in 35 IAC 215.105(a); provided, however

that upon request by the Illinois EPA, testing of selected coating shall be conducted in accordance with Condition 7.1.7(a) and that in the event of any inconsistency in results, the results from testing in accordance with Condition 7.1.7(a) shall be used to determine compliance.

- c. If the Permittee intends to take credit for VOM containing waste shipped off-site then the percent concentration of VOM in the VOM containing waste from the affected coating operation shall be determined in accordance with USEPA Test Methods for Evaluation of Solid Waste, Physical/Chemical Methods (SW-846), Test Method 8260.

7.1.8 Monitoring Requirements

- a. The Permittee shall visually inspect the filters and check for air flow drop on a weekly basis in order to ensure proper operation of the filters and the need for replacement.

7.1.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected coating operations to demonstrate compliance with Conditions 5.5.1 and 7.1.6 through 7.1.8, pursuant to Section 39.5(7)(b) of the Act:

- a. Usage of each raw material containing VOM, other than solvent recovered from the still (e.g., coating, solvent, thinner, etc.) as determined from purchase or inventory records (gallons/month);
- b. VOM content and HAP content of each raw material used (pounds of VOM/gallon);
- c. Emissions of VOM from the affected coating operations (tons/month and tons/year);
- d. Emissions of VOM from the dip spins (tons/month and tons/year);
- e. Results of filter inspections and dates of replacements made;
- f. Records of the testing of VOM and HAP content of each coating and cleaning solvent as tested pursuant to the conditions of this section, which include the following [Section 39.5(7)(e) of the Act]:
 - i. Identification of material tested,

- ii. Results of analysis;
 - iii. Documentation of analysis methodology; and
 - iv. Person performing analysis; and
- g. Amount of waste sent offsite for disposal (gallons), including the percent concentration of VOM in the waste, as determined by testing required in Condition 7.1.7.

7.1.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of an affected coating operation with the permit requirements, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

- a. If there is an exceedance of the requirements of Condition 7.1.6 as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, IL, within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.

7.1.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to an affected coating operation without prior notification to the Illinois EPA or revision of this permit. This condition does not affect the Permittee's obligation to properly obtain a construction permit in a timely manner for any activity constituting construction or modification of the source, as defined in 35 IAC 201.102:

- a. Change in the coatings, coating thinners, and cleanup solvents used, provided the affected coating operations continue to comply with the conditions of this permit.

7.1.12 Compliance Procedures

- a. Compliance with the particulate matter limitations of Conditions 7.1.3(b) and 7.1.6 is assured and achieved by the proper operation and maintenance of the filters as required by this section and the work-

practices inherent in operation of an affected coating line.

- b. Compliance with the VOM emission limitations in Conditions 5.5.1 and 7.1.6 shall be determined from the recordkeeping and testing required by this section and the following equation:

$$\begin{aligned} \text{VOM Emissions (tons)} &= [(\text{Raw Material Usage, gal}) * \\ &(\text{VOM Content of Raw Material, lb/gal})]/(2000 \text{ lb/ton}) \\ &- [(\text{Disposed Waste, gal}) * (\text{VOM Concentration in} \\ &\text{Waste, \% by volume})]/(2000 \text{ lb/ton}) \end{aligned}$$

7.2 Unit - Vapor Degreaser

7.2.1 Description

The trichloroethylene batch vapor degreaser is used to clean parts either as a lone processes or in preparation for one of the other plating or coating processes. VOM and HAP emissions occur from evaporation of the trichloroethylene solvent.

7.2.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit/Group	Description	Emission Control Equipment
Vapor Degreaser	Metal Parts Cleaning	Idling-Mode Cover

7.2.3 Applicability Provisions and Applicable Regulations

- a. The "affected solvent cleaning machine" for the purpose of these unit-specific conditions, is the solvent degreaser as described in Condition 7.1.2.
- b. The affected solvent cleaning machine is subject to the NESHAP for Halogenated Solvent Cleaning, 40 CFR 63 Subparts A and T, because the machine uses a solvent containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride or chloroform, or any combination of these halogenated HAP solvents, in a total concentration greater than 5 percent by weight, as a cleaning and/or drying agent. The Illinois EPA is administering these standards in Illinois on behalf of the USEPA under a delegation agreement.
- c. The affected solvent cleaning machine is subject to 35 IAC 215.183, Open Top Vapor Degreasing, because emissions of VOM may exceed 6.8 kg (15 lb) in any one day and 1.4 kg (3 lb) in any one hour.

7.2.4 Non-Applicability of Regulations of Concern

- a. This permit is issued based on the affected solvent cleaning machine using trichloroethylene as a cleaning solvent not being subject to 35 IAC 215.301: Use of Organic Material, because trichloroethylene is not considered a photochemically reactive material and no odor nuisance exists at this source.
- b. This permit is issued based on the affected solvent cleaning machine not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the affected solvent

cleaning machine is subject to a NESHAP proposed after November 15, 1990, pursuant to 40 CFR 64.2(b)(1)(i).

7.2.5 Operational And Production Limits And Work Practices

- a. The Permittee shall ensure that each existing or new batch vapor solvent cleaning machine conforms to the design requirements specified below:
 - i. Each cleaning machine shall be designed or operated to meet one of the following control equipment or technique requirements:
 - A. An idling and downtime mode cover, as described in 40 CFR 63.463(d)(1)(i), that may be readily opened or closed, that completely covers the cleaning machine openings when in place, and is free of cracks, holes, and other defects [40 CFR 63.463(a)(1)(i)]; or
 - B. A reduced room draft as described in 40 CFR 63.463(e)(2)(ii) [40 CFR 63.463(a)(1)(ii)].
 - ii. Each cleaning machine shall have a freeboard ratio of 0.75 or greater [40 CFR 63.463(a)(2)].
 - iii. Each cleaning machine shall have an automated parts handling system capable of moving parts or parts baskets at a speed of 3.4 meters per minute (11 feet per minute) or less from the initial loading of parts through removal of cleaned parts [40 CFR 63.463(a)(3)].
 - iv. Each vapor cleaning machine shall be equipped with a device that shuts off the sump heat if the sump liquid solvent level drops to the sump heater coils [40 CFR 63.463(a)(4)].
 - v. Each vapor cleaning machine shall be equipped with a vapor level control device that shuts off sump heat if the vapor level in the vapor cleaning machine rises above the height of the primary condenser [40 CFR 63.463(a)(5)].
 - vi. Each vapor cleaning machine shall have a primary condenser [40 CFR 63.463(a)(6)].
- b. The Permittee shall meet all of the following required work and operational practices specified below.

- i. Control air disturbances across the cleaning machine opening(s) by incorporating the control equipment or techniques as follows:
 - A. Cover(s) to each solvent cleaning machine shall be in place during the idling mode, and during the downtime mode unless either the solvent has been removed from the machine or maintenance or monitoring is being performed that requires the cover(s) to not be in place [40 CFR 63.463(d)(1)(i)]; or
 - B. A reduced room draft as described in 40 CFR 63.463(e)(2)(ii) [40 CFR 63.463(d)(1)(ii)].
- ii. The parts baskets or the parts being cleaned in an open-top batch vapor cleaning machine shall not occupy more than 50 percent of the solvent/air interface area unless the parts baskets or parts are introduced at a speed of 0.9 meters per minute (3 feet per minute) or less [40 CFR 63.463(d)(2)].
- iii. Any spraying operations shall be done within the vapor zone or within a section of the solvent cleaning machine that is not directly exposed to the ambient air (i.e., a baffled or enclosed area of the solvent cleaning machine) [40 CFR 63.463(d)(3)].
- iv. Parts shall be oriented so that the solvent drains from them freely. Parts having cavities or blind holes shall be tipped or rotated before being removed from any solvent cleaning machine unless an equally effective approach has been approved by the Illinois EPA [40 CFR 63.463(d)(4)].
- v. Parts baskets or parts shall not be removed from any solvent cleaning machine until dripping has stopped [40 CFR 63.463(d)(5)].
- vi. During startup of each vapor cleaning machine, the primary condenser shall be turned on before the sump heater [40 CFR 63.463(d)(6)].
- vii. During shutdown of each vapor cleaning machine, the sump heater shall be turned off and the solvent vapor layer allowed to collapse before the primary condenser is turned off [40 CFR 63.463(d)(7)].

- viii. When solvent is added or drained from any solvent cleaning machine, the solvent shall be transferred using threaded or other leakproof couplings and the end of the pipe in the solvent sump shall be located beneath the liquid solvent surface [40 CFR 63.463(d)(8)].
- ix. Each solvent cleaning machine and associated controls shall be maintained as recommended by the manufacturers of the equipment or using alternative maintenance practices that have been demonstrated to the Illinois EPA's satisfaction to achieve the same or better results as those recommended by the manufacturer [40 CFR 63.463(d)(9)].
- x. Each operator of a solvent cleaning machine shall complete and pass the applicable sections of the test of solvent cleaning operating procedures in appendix B of 40 CFR 63, Subpart T, if requested during an inspection by the Illinois EPA [40 CFR 63.463(d)(10)].
- xi. Waste solvent, still bottoms, and sump bottoms shall be collected and stored in closed containers. The closed containers may contain a device that would allow pressure relief, but would not allow liquid solvent to drain from the container [40 CFR 63.463(d)(11)].
- xii. Sponges, fabric, wood, and paper products shall not be cleaned [40 CFR 63.463(d)(12)].
- c. The Permittee shall operate the affected solvent cleaning machine within parameters identified in the initial performance test required by 40 CFR 63.463(f)(1) [40 CFR 63.463(f)(3)].
- d. Operating Requirements - Pursuant to 35 IAC 215.183(a), no person shall operate an open top vapor degreaser unless:
 - i. The cover of the degreaser is closed when workloads are not being processed through the degreaser;
 - ii. Solvent carryout emissions are minimized by:
 - A. Racking parts to allow complete drainage;

- B. Moving parts in and out of the degreaser at less than 3.3 meters per minute (11 feet per minute);
 - C. Holding the parts in the vapor zone until condensation ceases;
 - D. Tipping out any pools of solvent on the cleaned parts before removal from the vapor zone; and
 - E. Allowing parts to dry within the degreaser until visually dry.
- iii. Porous or absorbent materials, such as cloth, leather, wood or rope are not degreased;
 - iv. Less than half of the degreaser's open top area is occupied with a workload;
 - v. The degreaser is not loaded to the point where the vapor level would drop more than 10 cm (4 in) when the workload is removed from the vapor zone;
 - vi. Spraying is done below the vapor level only;
 - vii. Solvent leaks are repaired immediately;
 - viii. Waste solvent is stored in covered containers only and not disposed of in such a manner that more than 20% of the waste solvent (by weight) is allowed to evaporate into the atmosphere;
 - ix. Water is not visually detectable in solvent exiting from the water separator; and
 - x. Exhaust ventilation exceeding 20 cubic meters per minute per square meter (65 cubic feet per minute per square foot) of degreaser open area is not used, unless necessary to meet the requirements of the Occupational Safety and Health Act (29 U.S.C. Section 651 et seq.).
- e. Equipment Requirements - Pursuant to 35 IAC 215.183(b), no person shall operate an open top vapor degreaser unless:
 - i. The degreaser is equipped with a cover designed to open and close easily without disturbing the vapor zone;
 - ii. The degreaser is equipped with the following switches:

- A. A device which shuts off the sump heat if the amount of condenser coolant is not sufficient to maintain the designed vapor level;
 - B. A device which shuts off the spray pump if the vapor level drops more than 10 cm (4 in) below the bottom condenser coil; and
 - C. A device which shuts off the sump heat source when the vapor level exceeds the design level;
- iii. A permanent conspicuous label summarizing the operating procedure is affixed to the degreaser; and
 - iv. The degreaser is equipped with one of the following devices:
 - A. A freeboard height of 3/4 of the inside width of the degreaser tank or 91 cm (36 in), whichever is less; and if the degreaser opening is greater than 1 square meter (10.8 square feet), a powered or mechanically assisted cover; or
 - B. Any other equipment or system of equivalent emission control as approved by the Illinois EPA. Such equipment or system may include a refrigerated chiller, an enclosed design or a carbon adsorption system.
- f. Solvent usage for the affected solvent cleaning machine shall not exceed 1,504 pounds per month and 9.02 tons per year.

7.2.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected solvent cleaning machine is subject to the following:

- a. The affected solvent cleaning machine shall achieve and maintain an idling emission limit of 0.22 kg/hr/m² (0.045 lb/hr/ft²) of solvent/air interface area as determined using the procedures in Condition 7.2.7(b) (see also 40 CFR 63.465(a)) and Appendix A of 40 CFR Part 63 [40 CFR 63.463(b)(2)(ii)].

- b. Emissions from the affected solvent cleaning machine shall not exceed the following limits:

VOM Emissions	
<u>(Lb/Month)</u>	<u>(Ton/Year)</u>
1,504	9.02

These limits are based on the operational limit in Condition 7.2.5(f) and maximum emissions using the calculation procedures in Condition 7.2.12.

Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total) [T1].

The above limitations were established in Permit 97020042, pursuant to 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits ensure that the construction and/or modification addressed in the aforementioned permit does not constitute a new major source or major modification pursuant to Title I of the CAA, specifically the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21 [T1].

7.2.7 Testing Requirements

- a. The Permittee shall determine the idling emission rate of the affected solvent cleaning machine using Reference Method 307 in Appendix A of 40 CFR Part 63 [40 CFR 63.465(a)].
- b. The Permittee shall determine the percent concentration of solvent in waste in accordance with USEPA Test Methods for Evaluation of Solid Waste, Physical/Chemical Methods (SW-846), Test Method 8260.

7.2.8 Monitoring Requirements

- a. The Permittee shall comply with the following requirements.
- i. Conduct monitoring of each control device used to comply with 40 CFR 63.463 as provided in 40 CFR 63.466 [40 CFR 63.463(e)(1)].
- ii. Determine during each monitoring period whether each control device used to comply with these standards meets the following requirements.

- A. Ensure that the cover of the solvent cleaning machine is in place whenever parts are not in the solvent cleaning machine and completely covers the cleaning machine openings when in place [40 CFR 63.463(e)(2)(iv)(A)].
 - B. Ensure that the idling-mode cover is maintained free of cracks, holes, and other defects [40 CFR 63.463(e)(2)(iv)(B) and 63.466(b)(1)].
 - C. Determine if the cover is opening and closing properly, and completely covers the cleaning machine opening when closed [40 CFR 63.466(b)(1)].
- b. The Permittee complying with the equipment standards in 40 CFR 63.463 shall monitor the hoist speed as described below:
- i. The Permittee shall determine the hoist speed by measuring the time it takes for the hoist to travel a measured distance. The speed is equal to the distance in meters divided by the time in minutes (meters per minute) [40 CFR 63.466(c)(1)].
 - ii. The monitoring shall be conducted monthly. If after the first year, no exceedances of the hoist speed are measured, the owner or operator may begin monitoring the hoist speed quarterly [40 CFR 63.466(c)(2)].
 - iii. If an exceedance of the hoist speed occurs during quarterly monitoring, the monitoring frequency returns to monthly until another year of compliance without an exceedance is demonstrated [40 CFR 63.466(c)(3)].
 - iv. If an owner or operator can demonstrate to the Illinois EPA's satisfaction in the initial compliance report that the hoist cannot exceed a speed of 3.4 meters per minute (11 feet per minute), the required monitoring frequency is quarterly, including during the first year of compliance [40 CFR 63.466(c)(4)].
- c. The Permittee complying with the idling emission limit standards in 40 CFR 63.463 shall comply with the following requirements:
- i. If using controls listed in 40 CFR 63.466(a) through (e), comply with the monitoring

frequency requirements in 40 CFR 63.466(a) through (e) [40 CFR 63.466(f)(1)].

- ii. If using controls not listed in 40 CFR 63.466(a) through (e), establish the monitoring frequency for each control and submit it to the Illinois EPA for approval [40 CFR 63.466(f)(2)].

7.2.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected solvent cleaning machine to demonstrate compliance with Conditions 5.5.1 and 7.2.5 through 7.2.8, pursuant to Section 39.5(7)(b) of the Act:

- a. The Permittee complying with the provisions of 40 CFR 63.463 shall maintain records in written or electronic form as specified below for the lifetime of the each solvent cleaning machine:
 - i. Owner's manuals, or if not available, written maintenance and operating procedures, for the solvent cleaning machine and control equipment [40 CFR 63.467(a)(1)].
 - ii. The date of installation for the solvent cleaning machine and all of its control devices. If the exact date for installation is not known, a letter certifying that the cleaning machine and its control devices were installed prior to, or on, November 29, 1993, or after November 29, 1993, may be substituted [40 CFR 63.467(a)(2)].
 - iii. Records of the initial performance test, including the idling emission rate and values of the monitoring parameters measured during the test [40 CFR 63.467(a)(4)].
 - iv. Records of the halogenated HAP solvent content for each solvent used in a solvent cleaning machine [40 CFR 63.467(a)(5)].
- b. The Permittee shall maintain records as specified below either in electronic or written form for a period of 5 years:
 - i. The results of control device monitoring required under Condition 7.2.8 (see also 40 CFR 63.466) [40 CFR 63.467(b)(1)].

- ii. Information on the actions taken to comply with Condition 7.2.5(c) (see also 40 CFR 63.463(e)). This information shall include records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels [40 CFR 63.467(b)(2)].
 - iii. Estimates of annual solvent consumption for each solvent cleaning machine [40 CFR 63.467(b)(3)].
- c. The Permittee shall maintain the following records:
- i. Monthly and annual solvent usage (gallons);
 - ii. Type and density (lb/gallon) of solvent used; and
 - iii. Amount of solvent reclaimed for reuse or sent offsite for disposal (gallons), including percent concentration of solvent in waste.

7.2.10 Reporting Requirements

- a. The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected solvent cleaning machine with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:
- i. If any of the requirements of Condition 7.2.8(a) (see also 40 CFR 63.463(e)(2)) are not met, the Permittee shall determine whether an exceedance has occurred using the following criteria [40 CFR 63.463(e)(3) and (f)(4)]:
 - A. An exceedance has occurred if the requirements of Condition 7.2.8(a)(ii)(A) (see also 40 CFR 63.463(e)(2)(iv)(A)) have not been met.
 - B. An exceedance has occurred if the requirements of Condition 7.2.8(a)(ii)(B) (see also 40 CFR 63.463(e)(2)(iv)(B)) have not been met and are not corrected within 15 days of detection. Adjustments or repairs shall be made to the solvent cleaning system or control device to reestablish required levels. The

parameter must be remeasured immediately upon adjustment or repair and demonstrated to be within required limits.

- C. If using a control not listed in 40 CFR 63.463(e), indicate whether the exceedance of the parameters that are monitored to determine the proper functioning of this control would be classified as an immediate exceedance or whether a 15 day period would be allowed. This information must be submitted to the Illinois EPA for approval [40 CFR 63.463(f)(4)(ii)].
- D. The Permittee shall report all exceedances and all corrections and adjustments made to avoid an exceedance as specified in Condition 7.2.10(a)(ii) (see also 40 CFR 63.468(h)) [40 CFR 63.463(e)(4) and (f)(5)].

ii. The Permittee shall submit an exceedance report to the Illinois EPA semiannually, except when the Illinois EPA determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source or an exceedance occurs. Once an exceedance has occurred the Permittee shall follow a quarterly reporting format until a request to reduce reporting frequency under 40 CFR 63.468(i) is approved. Exceedance reports shall be delivered or postmarked by the 30th day following the end of each calendar half or quarter, as appropriate. The exceedance report shall include the following:

- A. Information on the actions taken to comply with Condition 7.2.5(d) (see also 40 CFR 63.463(e)). This information shall include records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels [40 CFR 63.468(h)(1)].
- B. If an exceedance has occurred, the reason for the exceedance and a description of the actions taken [40 CFR 63.468(h)(2)].

C. If no exceedances of a parameter have occurred, or a piece of equipment has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report [40 CFR 63.468(h)(3)].

iii. If there is an exceedance of the requirements of Conditions 7.2.5 or 7.2.6 as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, IL, within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.

b. The Permittee complying with the provisions of 40 CFR 63.463 shall submit an annual report by February 1 of the year following the one for which the reporting is being made. This report shall include the requirements specified below:

i. A signed statement from the facility owner or his designee stating that, "All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR 63.463(d)(10)" [40 CFR 63.468(f)(1)].

ii. An estimate of solvent consumption for each solvent cleaning machine during the reporting period [40 CFR 63.468(f)(2)].

7.2.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to the affected solvent cleaning machine without prior notification to the Illinois EPA or revision of this permit. This condition does not affect the Permittee's obligation to properly obtain a construction permit in a timely manner for any activity constituting construction or modification of the source, as defined in 35 IAC 201.102:

a. Changes in solvents to materials that contain less VOM than trichloroethylene, as long as such changes do not cause a violation of the limitations in Section 7.2.6 and Section 5.5.1.

7.2.12 Compliance Procedures

- a. Compliance with the operating and control requirements in Condition 7.2.5 shall be determined by the testing, monitoring, and recordkeeping required by Conditions 7.2.7, 7.2.8, and 7.2.9.
- b. For determination of compliance with the limits of this permit, solvent usage shall be determined by the following equation:

$$U = V - (W \times P)$$

Where:

U = Solvent usage for compliance determinations (gallons)

V = Virgin solvent^a added to the degreasers (gallons), as determined by daily addition log sheets.

W = Waste solvent^b removed from the degreasers and sent off-site for reclamation or disposal, as determined by monthly manifests.

P = Percent concentration of solvent in waste, as determined by analysis/testing^c.

^a For purposes of this permit, virgin solvent is defined as unused solvent.

^b For purpose of this permit, waste solvent is defined as used solvent.

^c The percent concentration of solvent in waste (P) shall be determined in accordance with USEPA Test Methods for Evaluation of Solid Waste, Physical/Chemical Methods (SW-846), Test Method 8260.

- c. VOM emission limits shall be calculated using the solvent density as specified in the Material Safety Data Sheet, and the solvent usage (U) per month, as follows:

$$\text{Emissions (lb)} = \frac{\text{Solvent Usage (U, gallons)} \times \text{Solvent Density (lb/gallon)}}{\text{Solvent Density (lb/gallon)}}$$

7.3 Unit - Chrome Plating Line
Control - Mesh Pad Mist Eliminator

7.3.1 Description

Three tanks within the chrome electroplating line are used to apply a chromium plating to parts. Prior to chrome plating, parts may come directly from receiving, degreasing, or one of the other plating lines. After chrome plating, parts may be shipped to a customer or undergo further work in the coating room. Plating operations generate mists, classified as PM emissions, due to evolution of hydrogen and oxygen gas. PM and chromium emissions are controlled by a mesh pad which removes chromic acid droplets from the gas stream.

7.3.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit/Group	Description	Emission Control Equipment
Plating Lines	Hard Chrome Plating Line #55	Spectra-U Mist Eliminator

7.3.3 Applicability Provisions and Applicable Regulations

- a. The "affected chrome plating line" for the purpose of these unit-specific conditions, is a hard chromium electroplating operation specified in Condition 7.3.2.
- b. The chrome plating tanks in the affected chrome plating line are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks, 40 CFR 63, Subparts A and N. The Illinois EPA is administering NESHAP in Illinois on behalf of the United States EPA under a delegation agreement.
- c. The affected chrome plating line is subject to 35 IAC 212.321, which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 (See also Attachment 2) [35 IAC 212.321(a)].

7.3.4 Non-Applicability of Regulations of Concern

- a. This permit is issued based on the affected chrome plating line not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the affected chrome plating line is subject to a NESHAP proposed after November 15, 1990, pursuant to 40 CFR 64.2(b)(1)(i).

7.3.5 Control Requirements and Work Practice Standards

- a. Air pollution control equipment associated with an affected chrome plating line shall be operated at all times during tank operation, including periods of startup and shutdown.
- b. The Permittee is subject to the following work practice standards.
 - i. At all times, including periods of startup, shutdown, and malfunction, the Permittee shall operate and maintain the affected chrome plating line, including associated air pollution control devices and monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the operation and maintenance plan required by Condition 7.3.5(c) [40 CFR 63.342(f)(1)(i)].
 - ii. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the operation and maintenance plan required by Condition 7.3.5(c) [40 CFR 63.342(f)(1)(ii)].
 - iii. Operation and maintenance requirements established pursuant to Section 112 of the CAA are enforceable independent of emissions limitations or other requirements in relevant standards [40 CFR 63.342(f)(1)(iii)].
 - iv. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Illinois EPA, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the source [40 CFR 63.342(f)(2)].
- c. The Permittee shall develop and implement an operation and maintenance plan for the affected

chrome plating line which shall include at least the following [40 CFR 63.342(f)(3)(i)]:

- i. Description of the operation and maintenance criteria for the affected chrome plating line, add-on air pollution control device, and the process and control system monitoring equipment.
 - ii. A checklist to document the operation and maintenance of the equipment.
 - iii. Required work practice standards for the add-on air pollution control device, as identified in 40 CFR 63.342, Table 1 (see also Condition 7.3.8).
 - iv. Procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur.
 - v. Systematic procedures for identifying malfunctions of process equipment, add-on air pollution control devices, and process and control system monitoring equipment and for implementing corrective actions to address such malfunctions.
- d. If the operation and maintenance plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the Permittee shall revise the operation and maintenance plan within 45 days after such an event occurs. The revised plan shall include procedures for operating and maintaining the process equipment, add-on air pollution control device, or monitoring equipment during similar malfunction events, and a program for corrective action for such events [40 CFR 63.342(f)(3)(ii)].
- e. The Permittee may use applicable Standard Operating Procedure manuals, Occupational Safety and Health Administration plans or other existing plans as part of the operation and maintenance plan, provided the alternative plans meet the requirements of Condition 7.3.5(c) [40 CFR 63.342(f)(3)(vi)].
- f. The standards in Condition 7.3.6 that apply to chromic acid baths shall not be met by using a reducing agent to change the form of chromium from hexavalent to trivalent [40 CFR 63.342(g)].

7.3.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected chrome plating line is subject to the following:

- a. The concentration of total chromium in each exhaust gas stream discharged to the atmosphere from each group of chrome plating tanks with a common add-on air pollution control device shall not exceed the following limit, pursuant to 40 CFR 63.342(c)(1):

<u>Equipment</u>	<u>Chromium Emissions (mg/dscm)</u>
New Tanks at a Large Hard Chromium Electroplating Facility	0.015

This limit is based on the maximum cumulative potential rectifier capacity of all hard chrome electroplating tanks at his source being greater than 60 million ampere-hours per year. An electroplating tank that has initial startup after December 16, 1993, is considered a new tank.

Compliance with this limit shall be determined from initial performance testing and ongoing compliance monitoring requirements, as required by this permit.

7.3.7 Testing Requirements

Pursuant to Section 39.5(7)(b) of the Act, testing for chromium emissions from the affected chrome plating line shall be performed upon reasonable request by the Illinois EPA as follows:

- a. The following test methods and procedures shall be used for performance testing, pursuant to 40 CFR 63.344(c). Refer to 40 CFR 63, Appendix A, for USEPA test methods. Alternate test methods may be used as specified in 40 CFR 63.344(c)(2) and (4).

Location of Sample Points	USEPA Method 1
Gas Flow and Velocity	USEPA Method 2
Chromium	USEPA Method 306 or 306A

7.3.8 Monitoring Requirements

- a. The operation and maintenance practices required by 40 CFR 63.342(f) (See Condition 7.3.5(b) and (c)) shall be implemented for control systems used on the affected chrome plating line, including the following

work practice standards for the mist eliminator control system(s):

- i. A quarterly visual inspection of the mist eliminator and pre-filtering device to ensure there is proper drainage, no chromic acid buildup in the units, and no evidence of chemical attack on the structural integrity of the devices.
 - ii. A quarterly visual inspection of the duct work from the tanks to the mist eliminators to ensure there are no leaks.
 - iii. Perform washdown of the mist eliminators in accordance with manufacturer's recommendations.
- b. The Permittee shall monitor and record the pressure drop across the mist eliminator, and the control device installed upstream of the mist eliminator to prevent plugging, once each day that the affected chrome plating line is operating [40 CFR 63.343(c)(4)(ii)].
- c. All monitoring equipment shall be installed such that representative measurements of emissions or process parameters from the affected source are obtained. For monitoring equipment purchased from a vendor, verification of the operational status of the monitoring equipment shall include execution of the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system [40 CFR 63.344(d)(2)].
- i. Specification for differential pressure measurement devices used to measure pressure drop across a control system shall be in accordance with manufacturer's accuracy specifications [40 CFR 63.344(d)(2)(ii)].
 - ii. The pressure drop may be established in accordance with the guidelines in 40 CFR 63.344(d)(5).

7.3.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected chrome plating line to demonstrate compliance with Conditions 5.5.1 and 7.3.5 through 7.3.8, pursuant to Section 39.5(7)(b) of the Act:

- a. The Permittee shall keep the records required by 40 CFR 63.346(b) to demonstrate continuous compliance with 40 CFR 63, Subpart N, including the following:
- i. Inspection records for the control device and monitoring equipment, to document that the inspection and maintenance required by the work practice standards of Conditions 7.3.5 and 7.3.8 (see also 40 CFR 63.342(f)) have taken place. The record can take the form of a checklist and should identify the device inspected, the date of inspection, a brief description of the working condition of the device during the inspection, and any actions taken to correct deficiencies found during the inspection [40 CFR 63.436(b)(1)].
 - ii. Records of all maintenance performed on the affected chrome plating line, the add-on air pollution control device, and monitoring equipment [40 CFR 63.436(b)(2)].
 - iii. Records of the occurrence, duration, and cause (if known) of each malfunction of the affected chrome plating line, add-on air pollution control device, and monitoring equipment [40 CFR 63.436(b)(3)].
 - iv. Records of actions taken during periods of malfunction when such actions are inconsistent with the operation and maintenance plan required by Condition 7.3.5 (see also 40 CFR 63.342(f)(3)) [40 CFR 63.436(b)(4)].
 - v. Records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the operation and maintenance plan required by Condition 7.3.5 (see also 40 CFR 63.342(f)(3)) [40 CFR 63.436(b)(5)].
 - vi. Copies of test reports documenting results of all performance tests and all measurements as may be necessary to determine the conditions of performance tests, including measurements necessary to determine compliance with the special compliance procedures of 40 CFR 63.344(e) [40 CFR 63.436(b)(6) and (b)(7)].
 - vii. Records of monitoring data required by Condition 7.3.8 (see also 40 CFR 63.343(c)) that are used to demonstrate compliance with the standard including the date and time the data are collected [40 CFR 63.436(b)(8)].

- viii. The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during malfunction of the affected chrome plating line, add-on air pollution control device, or monitoring equipment [40 CFR 63.436(b)(9)].
 - ix. The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during periods other than malfunction of the affected chrome plating line, add-on air pollution control device, or monitoring equipment [40 CFR 63.436(b)(10)].
 - x. Records for the total process operating time of the affected chrome plating line during the reporting period [40 CFR 63.436(b)(11)].
 - xi. Copies of the notifications and reports required by 40 CFR Parts 63.9, 63.10, and 63.347 (Condition 7.3.10), with supporting documentation [40 CFR 63.436(b)(16)].
 - xii. All records shall be retained for a period of five years, pursuant to 40 CFR 63.10(b)(1).
- b. The Permittee shall keep the written operation and maintenance plan (See Condition 7.3.5) on record after it is developed to be made available for inspection, upon request, by the Illinois EPA and/or USEPA for the life of the affected chrome plating line or until the affected chrome plating line is no longer subject to the provisions of 40 CFR 63 Subpart N. In addition, if the operation and maintenance plan is revised, the Permittee shall keep previous (i.e., superseded) versions of the operation and maintenance plan on record to be made available for inspection, upon request, by the Illinois EPA and/or USEPA for a period of 5 years after each revision to the plan [40 CFR 63.342(f)(3)(v)].
- c. Records of the testing of chromium emissions from the affected chrome plating line pursuant to Condition 7.3.7, which include the following [Section 39.5(7)(e) of the Act]:
- i. The date, place and time of sampling or measurements;
 - ii. The date(s) analyses were performed;

- iii. The company or entity that performed the analyses;
 - iv. The analytical techniques or methods used;
 - v. The results of such analyses; and
 - vi. The operating conditions as existing at the time of sampling or measurement.
- d. The maximum air flow (dscf) and the annual operating hours of the chrome plating tanks in the affected chrome plating line.
 - e. Aggregate annual PM emissions from the affected chrome plating line.

7.3.10 Reporting Requirements

- a. The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected chrome plating line with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:
 - i. If actions taken by the Permittee during periods of malfunction are inconsistent with the procedures specified in the operation and maintenance plan required by Condition 7.3.5, the Permittee shall record the actions taken for that event and shall report by phone such actions within 2 working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within 7 working days after the end of the event, unless the Permittee makes alternative reporting arrangements, in advance, with the Illinois EPA [40 CFR 63.342(f)(3)(iv)].
- b. Prior to carrying out the tests required by Condition 7.3.7, the Illinois EPA shall be notified in writing a minimum of sixty (60) calendar days prior to the scheduled date of these tests with the exact date, time, and place of these tests, to enable the Illinois EPA to observe these tests, pursuant to 40 CFR 63.347(d)(1).
- c. If the scheduled date for the test required by Condition 7.3.7 is changed for unforeseen reasons, the Permittee shall inform the Illinois EPA within five (5) working days of the originally scheduled

test date and must specify the date of the rescheduled test. Observation of the performance test by the Illinois EPA is optional.

- d. Three (3) copies of the Final Report(s) for performance tests shall be submitted to the Illinois EPA within 90 calendar days after the performance test, pursuant to 40 CFR 63.347(f)(2). The Final Report shall include, pursuant to 40 CFR 63.344(a):
 - i. A brief process description;
 - ii. Sampling location descriptions;
 - iii. A description of sampling and analytical procedures and any modifications to standard procedures;
 - iv. Test results;
 - v. Quality assurance procedures and results;
 - vi. Records of operating conditions during the test, preparation of standards, and calibration procedures;
 - vii. Raw data sheets for field sampling and field and laboratory analyses;
 - viii. Documentation of calculations; and
 - ix. Any additional information required by the test method.
- e. The Permittee shall submit ongoing compliance status reports documenting the ongoing compliance status to the Illinois EPA every six months, pursuant to 40 CFR 63.347(g). If the Permittee exceeds the emission limits as indicated during monitoring, ongoing compliance status reports shall be submitted once every quarter. To reduce the frequency of ongoing compliance status reports, the procedures in 40 CFR 63.347(g)(2) shall be followed.
- f. The Permittee shall report the results from each monitoring device. However, when one monitoring device is used as a backup for the primary monitoring device, the Permittee shall only report the results from the monitoring device used to meet the monitoring requirements. If both devices are used to meet these requirements, then the Permittee shall report the results from each monitoring device for the relevant compliance period [40 CFR 63.347(g)(4)].

- g. The ongoing compliance status report shall contain the following, pursuant to 40 CFR 63.347(g)(3):
- i. The company name and address of the source performing plating operations.
 - ii. An identification of the operating parameter(s) that is monitored for compliance determination, as required by Condition 7.3.8(b) (see also 40 CFR 63.343(c)).
 - iii. The relevant emission limitation for the affected chrome plating line, and the operating parameter value, or range of values, that correspond to compliance with this emission limitation as specified in the notification of compliance status, as required by 40 CFR 63.347(e)(2).
 - iv. The beginning and ending dates of the reporting period.
 - v. A description of the type of process performed in the affected chrome plating line.
 - vi. The total operating time of the affected chrome plating line during the reporting period.
 - vii. The actual cumulative rectifier capacity expended during the reporting period, on a month-by-month basis, if the Permittee limits the maximum cumulative potential rectifier capacity less than 60 million amp-hr/yr.
 - viii. A summary of operating parameter values, including the total duration of excess emissions during the reporting period as indicated by those values, the total duration of excess emissions expressed as a percent of the total source operating time during that reporting period, and a breakdown of the total duration of excess emissions during the reporting period into those that are due to process upsets, control equipment malfunctions, other known causes, and unknown causes.
 - ix. A certification by a responsible official that the work practice standards of Condition 7.3.5 (see also 40 CFR 63.342(f)) were followed in accordance with the operation and maintenance plan for the source.

- x. If the operation and maintenance plan required by Condition 7.3.5(c) (see also 40 CFR 63.342(f)(3)) was not followed, an explanation of the reasons for not following the provisions, an assessment of whether any excess emission and/or parameter monitoring exceedances are believed to have occurred, and a copy of the report(s) required by Condition 7.3.10(a) (see also 40 CFR 63.342(f)(3)(iv)) documenting that the operation and maintenance plan was not followed.
 - xi. A description of any changes in monitoring, processes, or controls since the last reporting period.
 - xii. The name, title, and signature of the responsible official who is certifying the accuracy of the report.
 - xiii. The date of the report.
- h. At least 30 calendar days before changing the method of compliance for the affected chrome plating line, the Permittee shall certify to the Illinois EPA that the affected chrome plating line will be in compliance with the applicable limitations of Condition 7.3.6 and 40 CFR 63, Subpart N, consistent with the requirements of the compliance certification reports of Condition 9.8.

7.3.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.3.12 Compliance Procedures

- a. Compliance with the particulate matter emission limit in Condition 7.3.3(c) is assured by proper operation of the affected chrome plating line and associated control equipment, as required by work practice standards in Condition 7.3.5.
- b. Compliance with the chromium emission limit in Condition 7.3.6 shall be determined by the monitoring required by Condition 7.3.8. To be in compliance, the mist eliminator and the upstream control device shall be operated within + 1 inch of water column of the pressure drop established during the initial performance test, or shall be operated within the range of compliant valves for pressure drop established during multiple performance tests [40 CFR 63.343(c)(4)(ii)]. Failure to operate in

accordance with the operating parameter value(s), determined during initial performance testing, shall be considered a violation of the limit in Condition 7.3.6, pursuant to 40 CFR 63, Subpart N.

- c. To determine compliance with Condition 5.5.1, chromium and PM emissions from the chrome plating tanks in the affected chrome plating line shall be calculated based on the following:

<u>Pollutant</u>	Emission Factor <u>(gr/dscf)</u>
Chromium	1.2×10^{-5}
PM	2.6×10^{-5}

These are the emission factors for hard chromium electroplating with a mesh-pad mist eliminator, Table 12.20-1, AP-42, Volume I, Fifth Edition, July 1996.

Plating Emissions (lb) = (Air Flow, dscf) x (The Appropriate Emission Factor, gr/dscf) x (1 lb/7000 gr)

7.4 Unit - Multi-Purpose Plating Line with Chromium Anodizing Tank Control - Wetting Agent Fume Suppressant

7.4.1 Description

The tanks are used to apply a chromium, cadmium, copper, phosphate, nickel, silver, or zinc coating to parts. Prior to plating, parts may come directly from receiving, degreasing, or the blast room. After plating, parts may be shipped to a customer or undergo further work in the chrome plating line or coating room. Plating operations generate mists, classified as PM emissions, due to evolution of hydrogen and oxygen gas.

The plating line includes an anodizing tank which is used to apply a chromium coating to parts. Emissions of chromium from the tank are controlled by lowering the surface tension in the tank to prevent formation of mist.

7.4.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit/Group	Description	Emission Control Equipment
Plating Line	P-Mag Line 51, which includes a chromium anodizing tank	Wetting Agent Fume Suppressant

7.4.3 Applicability Provisions and Applicable Regulations

- a. The "affected plating line" for the purpose of these unit-specific conditions, is plating operation specified in Condition 7.4.2.

The "affected anodizing tank" for the purpose of these unit-specific conditions, is the chromium anodizing tank in the affected plating line.

- b. The affected anodizing tank is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks, 40 CFR 63, Subparts A and N. The Illinois EPA is administering NESHAP in Illinois on behalf of the United States EPA under a delegation agreement.

- c. The affected plating line and anodizing tank are subject to 35 IAC 212.321, which provides that:

No person shall cause or allow the emission of particulate matter (PM) into the atmosphere in any one hour period from any new process emission unit, either alone or in combination with the emission of particulate matter from all other similar process

emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 [35 IAC 212.321(a)].

7.4.4 Non-Applicability of Regulations of Concern

- a. This permit is issued based on the affected chrome plating line not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the affected chrome plating line is subject to a NESHAP proposed after November 15, 1990, pursuant to 40 CFR 64.2(b)(1)(i).

7.4.5 Control Requirements and Work Practice Standards

- a. Surface tension of the anodizing bath shall not exceed 45 dynes/cm at any time during operation of the affected anodizing tank [40 CFR 63.342(d)(2)].

Compliance with this limit shall be determined from initial performance testing and ongoing compliance monitoring requirements, as required by this permit.

- b. The Permittee is subject to the following work practice standards.
 - i. At all times, including periods of startup, shutdown, and malfunction, the Permittee shall operate and maintain the affected anodizing tank, including associated monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the operation and maintenance plan required by Condition 7.4.5(c) [40 CFR 63.342(f)(1)(i)].
 - ii. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the operation and maintenance plan required by Condition 7.4.5(c) [40 CFR 63.342(f)(1)(ii)].
 - iii. Operation and maintenance requirements established pursuant to Section 112 of the CAA are enforceable independent of emissions limitations or other requirements in relevant standards [40 CFR 63.342(f)(1)(iii)].
 - iv. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Illinois EPA, which may include, but is not

limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the source [40 CFR 63.342(f)(2)].

- c. The Permittee shall develop and implement an operation and maintenance plan for the affected chrome plating line which shall include at least the following [40 CFR 63.342(f)(3)(i)]:
 - i. Description of the operation and maintenance criteria for the affected chrome plating line, add-on air pollution control device, and the process and control system monitoring equipment.
 - ii. A checklist to document the operation and maintenance of the equipment.
 - iii. Required work practice standards for the add-on air pollution control device, as identified in 40 CFR 63.342, Table 1 (see also Condition 7.4.8).
 - iv. Procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur.
 - v. Systematic procedures for identifying malfunctions of process equipment, add-on air pollution control devices, and process and control system monitoring equipment and for implementing corrective actions to address such malfunctions.
- d. If the operation and maintenance plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the Permittee shall revise the operation and maintenance plan within 45 days after such an event occurs. The revised plan shall include procedures for operating and maintaining the process equipment, add-on air pollution control device, or monitoring equipment during similar malfunction events, and a program for corrective action for such events [40 CFR 63.342(f)(3)(ii)].
- e. The Permittee may use applicable Standard Operating Procedure manuals, Occupational Safety and Health Administration plans or other existing plans as part of the operation and maintenance plan, provided the

alternative plans meet the requirements of Condition 7.4.5(c) [40 CFR 63.342(f)(3)(vi)].

- f. The standards in Condition 7.4.5(a) that apply to chromic acid baths shall not be met by using a reducing agent to change the form of chromium from hexavalent to trivalent [40 CFR 63.342(g)].

7.4.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected plating line is subject to the following:

- a. Emissions from affected plating line shall not exceed nominal PM and VOM emission rates of 0.1 lb/hr and 0.44 ton/yr. These limits are based on the negligible emissions from the plating tanks at maximum operation.

The above limits were established in Permit 01100068 [T1].

7.4.7 Testing Requirements

Pursuant to 40 CFR 63.343(b)(2), an initial performance test is not required for the affected anodizing tank as long as the source uses a wetting agent to inhibit chromium emissions and complies with applicable surface tension limit of 40 CFR 63.342(d)(2) as demonstrated through the monitoring required by Condition 7.4.8.

7.4.8 Monitoring Requirements

The surface tension of the affected anodizing tank shall be measured during operation of the tank with a stalagmometer or a tensiometer as specified 40 CFR 63, Appendix A, Method 306B [40 CFR 63.343(c)(5)].

- a. The surface tension shall be measured once every 4 hours of tank operation for the first 40 hours of tank operation. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 8 hours of tank operation. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 40 hours of tank operation on an ongoing basis, until an exceedance occurs. The minimum frequency of monitoring allowed is once every 40 hours of tank operation.
- b. Once an exceedance occurs as indicated through surface tension monitoring, the original monitoring

schedule of once every 4 hours must be resumed. A subsequent decrease in frequency shall follow the schedule laid out in Condition 7.4.8(a).

- c. Once a bath solution is drained from the affected tank and a new solution added, the original monitoring schedule of once every 4 hours must be resumed, with a decrease in monitoring frequency allowed following the procedures of Condition 7.4.8(a).

7.4.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected anodizing tank to demonstrate compliance with Conditions 5.5.1 and 7.4.5 through 7.4.8, pursuant to Section 39.5(7)(b) of the Act:

- a. The Permittee shall keep the records required by 40 CFR 63.346(b) as follows:
 - i. Inspection records for monitoring equipment, to document that the inspection and maintenance required by the work practice standards of Conditions 7.4.5 and 7.4.8 (see also 40 CFR 63.342(f)) have taken place. The record can take the form of a checklist and should identify the device inspected, the date of inspection, a brief description of the working condition of the device during the inspection, and any actions taken to correct deficiencies found during the inspection [40 CFR 63.436(b)(1)].
 - ii. Records of all maintenance performed on the affected anodizing tank and monitoring equipment [40 CFR 63.436(b)(2)].
 - iii. Records of the occurrence, duration, and cause (if known) of each malfunction of the affected anodizing tank and monitoring equipment [40 CFR 63.436(b)(3)].
 - iv. Records of actions taken during periods of malfunction when such actions are inconsistent with the operation and maintenance plan required by Condition 7.4.5 (see also 40 CFR 63.342(f)(3)) [40 CFR 63.436(b)(4)].
 - v. Records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the operation and maintenance plan required by

Condition 7.4.5 (see also 40 CFR 63.342(f)(3)) [40 CFR 63.436(b)(5)].

- vi. Records of monitoring data required by Condition 7.4.8 (see also 40 CFR 63.343(c)) that are used to demonstrate compliance with the standard including the date and time the data are collected [40 CFR 63.436(b)(8)].
 - vi. The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during malfunction of the affected anodizing tank or monitoring equipment [40 CFR 63.436(b)(9)].
 - vii. The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during periods other than malfunction of the affected anodizing tank or monitoring equipment [40 CFR 63.436(b)(4)].
 - viii. Records for the total process operating time of the affected anodizing tank during the reporting period [40 CFR 63.436(b)(11)].
 - ix. Records of the date and time that fume suppressants are added to the affected anodizing tank [40 CFR 63.436(b)(13)].
 - x. Copies of the notifications and reports required by 40 CFR Parts 63.9, 63.10, and 63.347 (Condition 7.4.10), with supporting documentation [40 CFR 63.436(b)(16)].
 - xi. All records shall be retained for a period of five years, pursuant to 40 CFR 63.10(b)(1).
- b. The Permittee shall keep the written operation and maintenance plan (See Condition 7.4.5) on record after it is developed to be made available for inspection, upon request, by the Illinois EPA and/or USEPA for the life of the affected anodizing tank or until the affected anodizing tank is no longer subject to the provisions of 40 CFR 63 Subpart N. In addition, if the operation and maintenance plan is revised, the Permittee shall keep previous (i.e., superseded) versions of the operation and maintenance plan on record to be made available for inspection, upon request, by the Illinois EPA and/or USEPA for a period of 5 years after each revision to the plan [40 CFR 63.342(f)(3)(v)].

- c. The annual operating hours of the affected plating line.
- d. Aggregate monthly and annual PM and VOM emissions from the affected plating line.

7.4.10 Reporting Requirements

- a. The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected plating line with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.
 - i. If actions taken by the Permittee during periods of malfunction are inconsistent with the procedures specified in the operation and maintenance plan required by Condition 7.4.5, the Permittee shall record the actions taken for that event and shall report by phone such actions within 2 working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within 7 working days after the end of the event, unless the Permittee makes alternative reporting arrangements, in advance, with the Illinois EPA [40 CFR 63.342(f)(3)(iv)].
 - ii. If there is an exceedance of the requirements of Condition 7.4.6 as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, IL, within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
- b. The Permittee shall submit ongoing compliance status reports for the affected anodizing tank documenting the ongoing compliance status to the Illinois EPA every six months, pursuant to 40 CFR 63.347(g). If the Permittee exceeds the emission limits as indicated during monitoring, ongoing compliance status reports shall be submitted once every quarter. To reduce the frequency of ongoing compliance status reports, the procedures in 40 CFR 63.347(g)(2) shall be followed.

- c. The ongoing compliance status report shall contain the following related to the affected anodizing tank, pursuant to 40 CFR 63.347(g)(3):
- i. The company name and address of the source performing plating operations.
 - ii. An identification of the operating parameter(s) that is monitored for compliance determination, as required by Condition 7.4.8(b) (see also 40 CFR 63.343(c)).
 - iii. The relevant emission limitation for the affected anodizing tank, and the operating parameter value, or range of values, that correspond to compliance with this emission limitation as specified in the notification of compliance status, as required by 40 CFR 63.347(e)(2).
 - iv. The beginning and ending dates of the reporting period.
 - v. A description of the type of process performed in the affected anodizing tank.
 - vi. The total operating time of the affected anodizing tank during the reporting period.
 - vii. The actual cumulative rectifier capacity expended during the reporting period, on a month-by-month basis, if the Permittee limits the maximum cumulative potential rectifier capacity less than 60 million amp-hr/yr.
 - viii. A summary of operating parameter values, including the total duration of excess emissions during the reporting period as indicated by those values, the total duration of excess emissions expressed as a percent of the total operating time of the affected anodizing tank during that reporting period, and a breakdown of the total duration of excess emissions during the reporting period into those that are due to process upsets, control equipment malfunctions, other known causes, and unknown causes.
 - ix. A certification by a responsible official that the work practice standards of Condition 7.4.5 (see also 40 CFR 63.342(f)) were followed in accordance with the operation and maintenance plan for the affected anodizing tank.

- x. If the operation and maintenance plan required by Condition 7.4.5(c) (see also 40 CFR 63.342(f)(3)) was not followed, an explanation of the reasons for not following the provisions, an assessment of whether any excess emission and/or parameter monitoring exceedances are believed to have occurred, and a copy of the report(s) required by Condition 7.4.10(a) (see also 40 CFR 63.342(f)(3)(iv)) documenting that the operation and maintenance plan was not followed.
 - xi. A description of any changes in monitoring, processes, or controls since the last reporting period.
 - xii. The name, title, and signature of the responsible official who is certifying the accuracy of the report.
 - xiii. The date of the report.
- d. At least 30 calendar days before changing the method of compliance for the affected anodizing tank, the Permittee shall certify to the Illinois EPA that the affected anodizing tank will be in compliance with the applicable limitations of Condition 7.4.5 and 40 CFR 63, Subpart N, consistent with the requirements of the compliance certification reports of Condition 9.8.

7.4.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.4.12 Compliance Procedures

- a. Compliance with the PM and VOM emission limits in Condition 7.4.3(c) and 7.4.6 is assured by proper operation, maintenance, and work practices of the affected plating line and anodizing tank. PM emissions shall be determined by the emission factors from Section 12.20 of AP-42, Volume I, Fifth Edition, July 1996, or other appropriate engineering estimates.
- b. Compliance with the control requirement in Condition 7.4.5(a) shall be determined in accordance with the NESHAP including monitoring as required by Condition 7.4.8.

7.5 Unit - Non-Chrome Plating Lines

7.5.1 Description

The tanks within the non-chrome electroplating lines are used to apply a cadmium, copper, phosphate, nickel, silver, or zinc coating to parts. Prior to plating, parts may come directly from receiving, degreasing, or the blast room. After plating, parts may be shipped to a customer or undergo further work in the chrome plating line or coating room. Plating operations generate mists, classified as PM emissions, due to evolution of hydrogen and oxygen gas.

7.5.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit/Group	Description	Emission Control Equipment
Plating Lines	Cad Line #50	None
	Phos/Zinc Line #52	None
	Electroless Nickel Line #53	None
	HCl Cleaning Line	None

7.5.3 Applicability Provisions and Applicable Regulations

- a. The "affected non-chrome plating lines" for the purpose of these unit-specific conditions, are electroplating lines which do not perform hard or decorative chromium electroplating, as specified in Condition 7.5.2.
- b. The affected non-chrome plating lines are subject to 35 IAC 212.321, which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 (See also Attachment 2) [35 IAC 212.321(a)].

7.5.4 Non-Applicability of Regulations of Concern

- a. This permit is issued based on the affected non-chrome plating lines not being subject to 40 CFR Part 63, Subpart N, because the affected non-chrome plating lines are not receptacles or containers in

which hard or decorative chromium electroplating or chromium anodizing occurs.

- b. This permit is issued based on the affected non-chrome plating lines not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the affected non-chrome plating lines do not use an add-on control device to achieve compliance with an emission limitation or standard.

7.5.5 Operational And Production Limits And Work Practices

The affected non-chrome plating lines shall not be used for chromium electroplating.

7.5.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected non-chrome plating lines are subject to the following:

- a. Emissions from each affected non-chrome plating line shall not exceed nominal PM and VOM emission rates of 0.1 lb/hr and 0.44 ton/yr. These limits are based on the negligible emissions from the plating tanks at maximum operation.

The above limitations were established in Permits 95030094, 95080072, 95110132, 96030282, 96080068, and 01030068 [T1].

7.5.7 Testing Requirements

None

7.5.8 Monitoring Requirements

None

7.5.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for each affected non-chrome plating line to demonstrate compliance with Condition 5.5.1, pursuant to Section 39.5(7)(b) of the Act:

- a. The maximum air flow (dscf), maximum make-up rate (lb/hr), or the annual cumulative rectifier capacity, as necessary to determine emissions from the affected non-chrome plating lines;

- b. The annual operating hours of each affected non-chrome plating lines; and
- c. Aggregate monthly and annual PM emissions from the affected non-chrome plating lines.

7.5.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected non-chrome plating lines with the permit requirements, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

- a. If there is an exceedance of the requirements of Conditions 7.5.6 as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, IL, within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.

7.5.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.5.12 Compliance Procedures

Compliance with the PM emission limits in Conditions 7.5.3 and 7.5.6 is assured by proper operation, maintenance, and work practices of the affected non-chrome plating lines. PM emissions shall be determined by the emission factors from Section 12.20 of AP-42, Volume I, Fifth Edition, July 1996, or other appropriate engineering estimates.

7.6 Unit - Blast Room
Control - Cyclones, Filters

7.6.1 Description

In the blast room, parts are cleaned by abrasive blasting of metal surfaces. PM emission generated by the each of the blasting units are controlled by a cyclone or filter and exhaust to the interior of the building.

7.6.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit/Group	Description	Emission Control Equipment
Blast Room	Blast Cleaning Equipment (11 blasting units)	Cyclones, Filters

7.6.3 Applicability Provisions and Applicable Regulations

- a. The "affected blasting units" for the purpose of these unit-specific conditions, is an emission unit which uses abrasive blasting to clean surfaces.
- b. The affected blasting units are subject to 35 IAC 212.321, which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 (See also Attachment 2) [35 IAC 212.321(a)].

7.6.4 Non-Applicability of Regulations of Concern

- a. This permit is issued based on the affected blasting units not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the affected blasting units do not have potential pre-control device emissions of the applicable regulated air pollutant that equals or exceeds major source threshold levels.

7.6.5 Operational And Production Limits And Work Practices

- a. Operation of the affected blasting units shall not exceed the following limits, established in Permit 97050123:

<u>Equipment</u>	<u>Process Weight Rate (Lb/Hour)</u>
Multiple Blast Units controlled by Aget Dust Collector	3,900
Tumble Blast	200
Spindle Blast	100
Spindle Blast	100

- b. The Permittee shall operate, maintain, and replace the filters in a manner that assures compliance with the conditions of this section.
- c. An adequate inventory of spare filters shall be maintained.

7.6.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected blasting units are subject to the following:

- a. Emissions from the affected blasting units shall not exceed the following limits:

<u>Equipment</u>	<u>PM Emissions</u>	
	<u>(Lb/Hour)</u>	<u>(Ton/Year)</u>
Multiple Blast Units controlled by Aget Dust Collector	3.64	15.94
Tumble Blast	0.74	3.24
Spindle Blast	0.238	1.04
Spindle Blast	<u>0.238</u>	<u>1.04</u>
	4.856	21.26

These limits are based on the operating limits in Condition 7.6.5, standard emission factors, the manufacturer's specified control efficiency for the cyclones and filters, and good maintenance practices.

Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total) [T1].

The above limitations were established in Permit 97050123, pursuant to 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits ensure that the construction and/or modification addressed in the aforementioned permit does not constitute a new major source or major modification pursuant to Title I of the CAA, specifically the federal rules

for Prevention of Significant Deterioration (PSD), 40 CFR 52.21 [T1].

7.6.7 Testing Requirements

None

7.6.8 Monitoring Requirements

- a. The Permittee shall visually inspect the filters and check for air flow drop on a weekly basis in order to ensure proper operation of the filters and the need for replacement.

7.6.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for each affected blasting unit to demonstrate compliance with Conditions 5.5.1, 7.6.5, and 7.6.6, pursuant to Section 39.5(7)(b) of the Act:

- a. Process weight rate for each group of affected blasting units with a common air pollution control device (lb/hr);
- b. Monthly and annual PM emissions from each group of affected blasting units with a common air pollution control device (ton/year); and
- c. Results of filter inspections and dates of replacements made.

7.6.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of an affected blasting unit with the permit requirements, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

- a. If there is an exceedance of the requirements of Conditions 7.6.5 or 7.6.6 as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, IL, within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.

7.6.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.6.12 Compliance Procedures

- a. Compliance with the operation limits and PM emission limits shall be determined by the recordkeeping requirements in Condition 7.6.9 and the following emission calculations:

$$\text{PM emissions (lb)} = (\text{Process Weight Rate, ton/hr}) * (\text{17 lb/ton}) * (1 - \text{Control Efficiency, \%})$$

where 17 lb/ton is the emission factor for the affected blasting units and the control efficiency is based on the manufacturer's specifications or the latest emissions tests.

8.0 GENERAL PERMIT CONDITIONS

8.1 Permit Shield

Pursuant to Section 39.5(7)(j) of the Act, the Permittee has requested and has been granted a permit shield. This permit shield provides that compliance with the conditions of this permit shall be deemed compliance with applicable requirements which were applicable as of the date the proposed permit for this source was issued, provided that either the applicable requirements are specifically identified within this permit, or the Illinois EPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to this source and this determination (or a concise summary thereof) is included in this permit.

This permit shield does not extend to applicable requirements which are promulgated after February 7, 2002 (the date of issuance of the draft permit) unless this permit has been modified to reflect such new requirements.

8.2 Applicability of Title IV Requirements (Acid Deposition Control)

This source is not an affected source under Title IV of the CAA and is not subject to requirements pursuant to Title IV of the CAA.

8.3 Emissions Trading Programs

No permit revision shall be required for increases in emissions allowed under any USEPA approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for elsewhere in this permit and that are authorized by the applicable requirement [Section 39.5(7)(o)(vii) of the Act].

As of the date of issuance of this permit, there are no such economic incentive, marketable permit or emission trading programs that have been approved by USEPA.

8.4 Operational Flexibility/Anticipated Operating Scenarios

8.4.1 Changes Specifically Addressed by Permit

Physical or operational changes specifically addressed by the Conditions of this permit that have been identified as not requiring Illinois EPA notification may be implemented without prior notice to the Illinois EPA.

8.4.2 Changes Requiring Prior Notification

The Permittee is authorized to make physical or operational changes that contravene express permit terms without applying for or obtaining an amendment to this

permit, provided that [Section 39.5(12)(a)(i) of the Act]:

- a. The changes do not violate applicable requirements;
- b. The changes do not contravene federally enforceable permit terms or conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements;
- c. The changes do not constitute a modification under Title I of the CAA;
- d. Emissions will not exceed the emissions allowed under this permit following implementation of the physical or operational change; and
- e. The Permittee provides written notice to the Illinois EPA, Division of Air Pollution Control, Permit Section, at least 7 days before commencement of the change. This notice shall:
 - i. Describe the physical or operational change;
 - ii. Identify the schedule for implementing the physical or operational change;
 - iii. Provide a statement of whether or not any New Source Performance Standard (NSPS) is applicable to the physical or operational change and the reason why the NSPS does or does not apply;
 - iv. Provide emission calculations which demonstrate that the physical or operational change will not result in a modification; and
 - v. Provide a certification that the physical or operational change will not result in emissions greater than authorized under the Conditions of this permit.

8.5 Testing Procedures

Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be conducted using standard test methods. Documentation of the test date, conditions, methodologies, calculations, and test results shall be retained pursuant to the recordkeeping procedures of this permit. Reports of any tests conducted as required by this permit or as the result of a request by the Illinois EPA shall be submitted as specified in Condition 8.6.

8.6 Reporting Requirements

8.6.1 Monitoring Reports

If monitoring is required by any applicable requirements or conditions of this permit, a report summarizing the required monitoring results, as specified in the conditions of this permit, shall be submitted to the Air Compliance Section of the Illinois EPA every six months as follows [Section 39.5(7)(f) of the Act]:

<u>Monitoring Period</u>	<u>Report Due Date</u>
January - June	September 1
July - December	March 1

All instances of deviations from permit requirements must be clearly identified in such reports. All such reports shall be certified in accordance with Condition 9.9.

8.6.2 Test Notifications

Unless otherwise specified elsewhere in this permit, a written test plan for any test required by this permit shall be submitted to the Illinois EPA for review at least 60 days prior to the testing pursuant to Section 39.5(7)(a) of the Act. The notification shall include at a minimum:

- a. The name and identification of the affected unit(s);
- b. The person(s) who will be performing sampling and analysis and their experience with similar tests;
- c. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the source and any control equipment will be determined;
- d. The specific determination of emissions and operation which are intended to be made, including sampling and monitoring locations;
- e. The test method(s) which will be used, with the specific analysis method, if the method can be used with different analysis methods;
- f. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with justification; and

- g. Any proposed use of an alternative test method, with detailed justification.

8.6.3 Test Reports

Unless otherwise specified elsewhere in this permit, the results of any test required by this permit shall be submitted to the Illinois EPA within 60 days of completion of the testing. The test report shall include at a minimum [Section 39.5(7)(e)(i) of the Act]:

- a. The name and identification of the affected unit(s);
- b. The date and time of the sampling or measurements;
- c. The date any analyses were performed;
- d. The name of the company that performed the tests and/or analyses;
- e. The test and analytical methodologies used;
- f. The results of the tests including raw data, and/or analyses including sample calculations;
- g. The operating conditions at the time of the sampling or measurements; and
- h. The name of any relevant observers present including the testing company's representatives, any Illinois EPA or USEPA representatives, and the representatives of the source.

8.6.4 Reporting Addresses

- a. The following addresses should be utilized for the submittal of reports, notifications, and renewals:
 - i. Illinois EPA - Air Compliance Section

Illinois Environmental Protection Agency
Bureau of Air
Compliance Section (MC 40)
P.O. Box 19276
Springfield, Illinois 62794-9276
 - ii. Illinois EPA - Air Regional Field Office

Illinois Environmental Protection Agency
Division of Air Pollution Control
5415 North University
Peoria, Illinois 61614

iii. Illinois EPA - Air Permit Section

Illinois Environmental Protection Agency
Division of Air Pollution Control
Permit Section (MC 11)
P.O. Box 19506
Springfield, Illinois 62794-9506

iv. USEPA Region 5 - Air Branch

USEPA (AE - 17J)
Air & Radiation Division
77 West Jackson Boulevard
Chicago, Illinois 60604

- b. Unless otherwise specified in the particular provision of this permit, reports shall be sent to the Illinois EPA - Air Compliance Section with a copy sent to the Illinois EPA - Air Regional Field Office.

8.7 Obligation to Comply with Title I Requirements

Any term, condition, or requirement identified in this permit by T1, T1R, or T1N is established or revised pursuant to 35 IAC Part 203 or 40 CFR 52.21 ("Title I provisions") and incorporated into this permit pursuant to both Section 39.5 and Title I provisions. Notwithstanding the expiration date on the first page of this permit, the Title I conditions remain in effect pursuant to Title I provisions until the Illinois EPA deletes or revises them in accordance with Title I procedures.

9.0 STANDARD PERMIT CONDITIONS

9.1 Effect of Permit

9.1.1 The issuance of this permit does not release the Permittee from compliance with State and Federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statutes and regulations of the United States or the State of Illinois or applicable ordinances, except as specifically stated in this permit and as allowed by law and rule [Section 39.5(7)(j)(iv) of the Act].

9.1.2 In particular, this permit does not alter or affect the following:

- a. The provisions of Section 303 (emergency powers) of the CAA, including USEPA's authority under that Section;
- b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- c. The applicable requirements of the acid rain program consistent with Section 408(a) of the CAA; and
- d. The ability of USEPA to obtain information from a source pursuant to Section 114 (inspections, monitoring, and entry) of the CAA.

9.1.3 Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

9.2 General Obligations of Permittee

9.2.1 Duty to Comply

The Permittee must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the CAA and the Act, and is grounds for any or all of the following: enforcement action, permit termination, revocation and reissuance, modification, or denial of a permit renewal application [Section 39.5(7)(o)(i) of the Act].

The Permittee shall meet applicable requirements that become effective during the permit term in a timely manner unless an alternate schedule for compliance with the applicable requirement is established.

9.2.2 Duty to Maintain Equipment

The Permittee shall maintain all equipment covered under this permit in such a manner that the performance or operation of such equipment shall not cause a violation of applicable requirements.

9.2.3 Duty to Cease Operation

No person shall cause, threaten or allow the continued operation of any emission unit during malfunction or breakdown of the emission unit or related air pollution control equipment if such operation would cause a violation of an applicable emission standard, regulatory requirement, ambient air quality standard or permit limitation unless such malfunction or breakdown is allowed by a permit condition [Section 39.5(6)(c) of the Act].

9.2.4 Disposal Operations

The source shall be operated in such a manner that the disposal of air contaminants collected by the equipment operations, or activities shall not cause a violation of the Act or regulations promulgated thereunder.

9.2.5 Duty to Pay Fees

The Permittee must pay fees to the Illinois EPA consistent with the fee schedule approved pursuant to Section 39.5(18) of the Act, and submit any information relevant thereto [Section 39.5(7)(o)(vi) of the Act]. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois Environmental Protection Agency, P.O. Box 19276, Springfield, Illinois 62794-9276.

9.3 Obligation to Allow Illinois EPA Surveillance

Upon presentation of proper credentials and other documents, the Permittee shall allow the Illinois EPA, or an authorized representative to perform the following [Section 39.5(7)(a) and (p)(ii) of the Act and 415 ILCS 5/4]:

- a. Enter upon the Permittee's premises where an actual or potential emission unit is located; where any regulated equipment, operation, or activity is located or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect during hours of operation any sources, equipment (including monitoring and air pollution control

equipment), practices, or operations regulated or required under this permit;

- d. Sample or monitor any substances or parameters at any location:
 - i. At reasonable times, for the purposes of assuring permit compliance; or
 - ii. As otherwise authorized by the CAA, or the Act.
- e. Obtain and remove samples of any discharge or emission of pollutants authorized by this permit; and
- f. Enter and utilize any photographic, recording, testing, monitoring, or other equipment for the purposes of preserving, testing, monitoring, or recording any activity, discharge or emission at the source authorized by this permit.

9.4 Obligation to Comply with Other Requirements

The issuance of this permit does not release the Permittee from applicable State and Federal laws and regulations, and applicable local ordinances addressing subjects other than air pollution control.

9.5 Liability

9.5.1 Title

This permit shall not be considered as in any manner affecting the title of the premises upon which the permitted source is located.

9.5.2 Liability of Permittee

This permit does not release the Permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the sources.

9.5.3 Structural Stability

This permit does not take into consideration or attest to the structural stability of any unit or part of the source.

9.5.4 Illinois EPA Liability

This permit in no manner implies or suggests that the Illinois EPA (or its officers, agents or employees) assumes any liability, directly or indirectly, for any

loss due to damage, installation, maintenance, or operation of the source.

9.5.5 Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege [Section 39.5(7)(o)(iv) of the Act].

9.6 Recordkeeping

9.6.1 Control Equipment Maintenance Records

A maintenance record shall be kept on the premises for each item of air pollution control equipment. As a minimum, this record shall show the dates of performance and nature of preventative maintenance activities.

9.6.2 Records of Changes in Operation

A record shall be kept describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under this permit, and the emissions resulting from those changes [Section 39.5(12)(b)(iv) of the Act].

9.6.3 Retention of Records

- a. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit [Section 39.5(7)(e)(ii) of the Act].
- b. Other records required by this permit shall be retained for a period of at least 5 years from the date of entry unless a longer period is specified by a particular permit provision.

9.7 Annual Emissions Report

The Permittee shall submit an annual emissions report to the Illinois EPA, Compliance Section no later than May 1 of the following year, as required by 35 IAC Part 254.

9.8 Requirements for Compliance Certification

Pursuant to Section 39.5(7)(p)(v) of the Act, the Permittee shall submit annual compliance certifications. The compliance

certifications shall be submitted no later than May 1 or more frequently as specified in the applicable requirements or by permit condition. The compliance certifications shall be submitted to the Air Compliance Section, Air Regional Field Office, and USEPA Region 5 - Air Branch. The addresses for the submittal of the compliance certifications are provided in Condition 8.6.4 of this permit.

- a. The certification shall include the identification of each term or condition of this permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, both currently and over the reporting period consistent with the conditions of this permit.
- b. All compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the Illinois EPA.
- c. All compliance reports required to be submitted shall include a certification in accordance with Condition 9.9.

9.9 Certification

Any document (including reports) required to be submitted by this permit shall contain a certification by a responsible official of the Permittee that meets the requirements of Section 39.5(5) of the Act [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included as an attachment to this permit.

9.10 Defense to Enforcement Actions

9.10.1 Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit [Section 39.5(7)(o)(ii) of the Act].

9.10.2 Emergency Provision

- a. An emergency shall be an affirmative defense to an action brought for noncompliance with the technology-based emission limitations under this permit if the following conditions are met through properly signed, contemporaneous operating logs, or other relevant evidence:
 - i. An emergency occurred as provided in Section 39.5(7)(k) of the Act and the Permittee can identify the cause(s) of the emergency.

Normally, an act of God such as lightning or flood is considered an emergency;

- ii. The permitted source was at the time being properly operated;
 - iii. The Permittee submitted notice of the emergency to the Illinois EPA within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
 - iv. During the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or regulations in this permit.
- b. This provision is in addition to any emergency or upset provision contained in any applicable requirement. This provision does not relieve a Permittee of any reporting obligations under existing federal or state laws or regulations.

9.11 Permanent Shutdown

This permit only covers emission units and control equipment while physically present at the indicated source location(s). Unless this permit specifically provides for equipment relocation, this permit is void for the operation or activity of any item of equipment on the date it is removed from the permitted location(s) or permanently shut down. This permit expires if all equipment is removed from the permitted location(s), notwithstanding the expiration date specified on this permit.

9.12 Reopening and Reissuing Permit for Cause

9.12.1 Permit Actions

This permit may be modified, reopened, and reissued, for cause pursuant to Section 39.5(15) of the Act. The filing of a request by the Permittee for a permit modification, revocation, and reissuance, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition [Section 39.5(7)(o)(iii) of the Act].

9.12.2 Reopening and Revision

This permit must be reopened and revised if any of the following occur [Section 39.5(15)(a) of the Act]:

- a. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit;
- b. Additional requirements become applicable to an affected source for acid deposition under the acid rain program;
- c. The Illinois EPA or USEPA determines that this permit contains a material mistake or inaccurate statement when establishing the emission standards or limitations, or other terms or conditions of this permit; and
- d. The Illinois EPA or USEPA determines that this permit must be revised to ensure compliance with the applicable requirements of the Act.

9.12.3 Inaccurate Application

The Illinois EPA has issued this permit based upon the information submitted by the Permittee in the permit application. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation under Section 39.5(15)(b) of the Act.

9.12.4 Duty to Provide Information

The Permittee shall furnish to the Illinois EPA, within a reasonable time specified by the Illinois EPA any information that the Illinois EPA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to the Illinois EPA copies of records required to be kept by this permit, or for information claimed to be confidential, the Permittee may furnish such records directly to USEPA along with a claim of confidentiality [Section 39.5(7)(o)(v) of the Act].

9.13 Severability Clause

The provisions of this permit are severable, and should any one or more be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected. The rights and obligations of the Permittee shall be construed and enforced as if this permit did not contain the particular provisions held to be invalid and the applicable requirements

underlying these provisions shall remain in force [Section 39.5(7)(i) of the Act].

9.14 Permit Expiration and Renewal

The right to operate terminates on the expiration date unless the Permittee has submitted a timely and complete renewal application. For a renewal to be timely it must be submitted no later than 9 and no sooner than 12 months prior to expiration. The equipment may continue to operate during the renewal period until final action is taken by the Illinois EPA, in accordance with the original permit conditions [Section 39.5(5)(1), (n), and (o) of the Act].

10.0 ATTACHMENTS

10.1 Attachment 1 Example Certification by a Responsible Official

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: _____

Name: _____

Official Title: _____

Telephone No.: _____

Date Signed: _____

10.2 Attachment 2 - Particulate Matter Emissions from Process Emission Units

10.2.1 Process Emission Units For Which Construction or Modification Commenced On or After April 14, 1972 (35 IAC 212.321)

- a. Except as further provided in 35 IAC Part 212, no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of this Section.
- b. Interpolated and extrapolated values of the data in subsection (c) of this Section shall be determined by using the equation:

$$E = A(P)^B$$

where

P = Process weight rate; and
 E = Allowable emission rate; and,

- 1. Up to process weight rates of 408 Mg/hr (450 Ton/hr):

	Metric	English
P	Mg/hr	Ton/hr
E	kg/hr	lbs/hr
A	1.214	2.54
B	0.534	0.534

- 2. For process weight rate greater than or equal to 408 Mg/hr (450 Ton/hr):

	Metric	English
P	Mg/hr	Ton/hr
E	kg/hr	lbs/hr
A	11.42	24.8
B	0.16	0.16

- c. Limits for Process Emission Units For Which Construction or Modification Commenced On or After April 14, 1972

Metric		English	
P	E	P	E
Mg/hr	kg/hr	Ton/hr	lbs/hr
0.05	0.25	0.05	0.55
0.1	0.29	0.10	0.77
0.2	0.42	0.20	1.10
0.3	0.64	0.30	1.35
0.4	0.74	0.40	1.58
0.5	0.84	0.50	1.75
0.7	1.00	0.75	2.40
0.9	1.15	1.00	2.60
1.8	1.66	2.00	3.70
2.7	2.1	3.00	4.60
3.6	2.4	4.00	5.35
4.5	2.7	5.00	6.00
9.	3.9	10.00	8.70
13.	4.8	15.00	10.80
18.	5.7	20.00	12.50
23.	6.5	25.00	14.00
27.	7.1	30.00	15.60
32.	7.7	35.00	17.00
36.	8.2	40.00	18.20
41.	8.8	45.00	19.20
45.	9.3	50.00	20.50
90.	13.4	100.00	29.50
140.	17.0	150.00	37.00
180.	19.4	200.00	43.00
230.	22.	250.00	48.50
270.	24.	300.00	53.00
320.	26.	350.00	58.00
360.	28.	400.00	62.00
408.	30.1	450.00	66.00
454.	30.4	500.00	67.00

where:

P = Process weight rate in Mg/hr or Ton/hr, and
E = Allowable emission rate in kg/hr or lbs/hr.

10.3 Attachment 3 Guidance on Revising This Permit

The Permittee must submit an application to the Illinois EPA using the appropriate revision classification in accordance with Sections 39.5(13) and (14) of the Act and 35 IAC 270.302. Specifically, there are currently three classifications for revisions to a CAAPP permit. These are:

1. Administrative Permit Amendment;
2. Minor Permit Modification; and
3. Significant Permit Modification.

The Permittee must determine, request, and submit the necessary information to allow the Illinois EPA to use the appropriate procedure to revise the CAAPP permit. A brief explanation of each of these classifications follows.

1. Administrative Permit Amendment
 - Corrects typographical errors;
 - Identifies a change in the name, address, or phone number of any person identified in the permit, or provides a similar minor administrative change at the source;
 - Requires more frequent monitoring or reporting by the Permittee;
 - Allows for a change in ownership or operational control of the source where no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new Permittees has been submitted to the Illinois EPA. This shall be handled by completing form 272-CAAPP, REQUEST FOR OWNERSHIP CHANGE FOR CAAPP PERMIT; or
 - Incorporates into the CAAPP permit a construction permit, provided the conditions of the construction permit meet the requirements for the issuance of CAAPP permits.
2. Minor Permit Modification
 - Do not violate any applicable requirement;
 - Do not involve significant changes to existing monitoring, reporting, or recordkeeping requirements in the permit;

- Do not require a case-by-case determination of an emission limitation or other standard, or a source-specific determination of ambient impacts, or a visibility or increment analysis;
- Do not seek to establish or change a permit term or condition for which there is no corresponding underlying requirement and which avoids an applicable requirement to which the source would otherwise be subject. Such terms and conditions include:
 - A federally enforceable emissions cap assumed to avoid classification as a modification under any provision of Title I of the CAA; and
 - An alternative emissions limit approved pursuant to regulations promulgated under Section 112(i)(5) of the CAA.
- Are not modifications under any provision of Title I of the CAA;
- Are not required to be processed as a significant permit modification; and
- Modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches.

An application for a minor permit modification shall include the following:

- A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
- The source's suggested draft permit/conditions;
- Certification by a responsible official that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
- Information as contained on form 271-CAAPP, MINOR PERMIT MODIFICATION FOR CAAPP PERMIT for the Illinois EPA to use to notify USEPA and affected States.

3. Significant Permit Modification

- Applications that do not qualify as either minor permit modifications or as administrative permit amendments;
- Applications requesting a significant change in existing monitoring permit terms or conditions;
- Applications requesting a relaxation of reporting or recordkeeping requirements; and
- Cases in which, in the judgment of the Illinois EPA, action on an application for modification would require decisions to be made on technically complex issues.

An application for a significant permit modification shall include the following:

- A detailed description of the proposed change(s), including all physical changes to equipment, changes in the method of operation, changes in emissions of each pollutant, and any new applicable requirements which will apply as a result of the proposed change. Note that the Permittee need only submit revised forms for equipment and operations that will be modified.

The Illinois EPA requires the information on the following appropriate forms to be submitted in accordance with the proper classification:

- Form 273-CAAPP, REQUEST FOR ADMINISTRATIVE PERMIT AMENDMENT FOR CAAPP PERMIT; or
- Form 271-CAAPP, MINOR PERMIT MODIFICATION FOR CAAPP PERMIT; or
- Form 200-CAAPP, APPLICATION FOR CAAPP PERMIT (for significant modification).

Application forms can be obtained from the Illinois EPA website at <http://www.epa.state.il.us/air/forms>.

Note that the request to revise the permit must be certified for truth, accuracy, and completeness by a responsible official.

Note that failure to submit the required information may require the Illinois EPA to deny the application. The Illinois EPA reserves the right to require that additional information be submitted as needed to evaluate or take final action on applications pursuant to Section 39.5(5)(g) of the Act and 35 IAC 270.305.



Illinois Environmental Protection Agency
Division Of Air Pollution Control -- Permit Section
P.O. Box 19506
Springfield, Illinois 62794-9506

Application For Construction Permit (For CAAPP Sources Only)	For Illinois EPA use only
	ID number:
	Permit number:
	Date received:

This form is to be used by CAAPP sources to supply information necessary to obtain a construction permit. Please attach other necessary information and completed CAAPP forms regarding this construction/modification project.

Source Information		
1. Source name:		
2. Source street address:		
3. City:	4. Zip code:	
5. Is the source located within city limits? <input type="checkbox"/> Yes <input type="checkbox"/> No		
6. Township name:	7. County:	8. ID number:

Owner Information		
9. Name:		
10. Address:		
11. City:	12. State:	13. Zip code:

Operator Information (if different from owner)		
14. Name		
15. Address:		
16. City:	17. State:	18. Zip code:

Applicant Information	
19. Who is the applicant? <input type="checkbox"/> Owner <input type="checkbox"/> Operator	20. All correspondence to: (check one) <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Source
21. Attention name and/or title for written correspondence:	
22. Technical contact person for application:	23. Contact person's telephone number:

This Agency is authorized to require and you must disclose this information under 415 ILCS 5/39. Failure to do so could result in the application being denied and penalties under 415 ILCS 5 et seq. It is not necessary to use this form in providing this information. This form has been approved by the forms management center.

Summary Of Application Contents	
24. Does the application address whether the proposed project would constitute a new major source or major modification under each of the following programs: a) Non-attainment New Source Review – 35 IAC Part 203; b) Prevention of Significant Deterioration (PSD) – 40 CFR 52.21; c) Hazardous Air Pollutants: Regulations Governing Constructed or Reconstructed Major Sources – 40 CFR Part 63?	<input type="checkbox"/> Yes <input type="checkbox"/> No
25. Does the application identify and address all applicable emissions standards, including those found in the following: a) Board Emission Standards – 35 IAC Chapter I, Subtitle B; b) Federal New Source Performance Standards – 40 CFR Part 60; c) Federal Standards for Hazardous Air Pollutants – 40 CFR Parts 61 and 63?	<input type="checkbox"/> Yes <input type="checkbox"/> No
26. Does the application include a process flow diagram(s) showing all emission units and control equipment, and their relationship, for which a permit is being sought?	<input type="checkbox"/> Yes <input type="checkbox"/> No
27. Does the application include a complete process description for the emission units and control equipment for which a permit is being sought?	<input type="checkbox"/> Yes <input type="checkbox"/> No
28. Does the application include the information as contained in completed CAAPP forms for all appropriate emission units and air pollution control equipment, listing all applicable requirements and proposed exemptions from otherwise applicable requirements, and identifying and describing any outstanding legal actions by either the USEPA or the Illinois EPA? Note: The use of "APC" application forms is not appropriate for applications for CAAPP sources. CAAPP forms should be used to supply information.	<input type="checkbox"/> Yes <input type="checkbox"/> No
29. If the application contains TRADE SECRET information, has such information been properly marked and claimed, and have two separate copies of the application suitable for public inspection and notice been submitted, in accordance with applicable rules and regulations?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable, No TRADE SECRET information in this application

Note 1: Answering "No" to any of the above may result in the application being deemed incomplete.

Signature Block	
This certification must be signed by a responsible official. Applications without a signed certification will be returned as incomplete.	
30. I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate and complete. Authorized Signature:	
BY:	_____
AUTHORIZED SIGNATURE	TITLE OF SIGNATORY
_____	_____/_____/_____
TYPED OR PRINTED NAME OF SIGNATORY	DATE

Note 2: An operating permit for the construction/modification permitted in a construction permit must be obtained by applying for the appropriate revision to the source's CAAPP permit, if necessary.

10.5 Attachment 5 Guidance on Renewing This Permit

Timeliness - Pursuant to Section 39.5(5)(n) of the Act and 35 IAC 270.301(d), a source must submit to the Illinois EPA a complete CAAPP application for the renewal of a CAAPP permit not later than 9 months before the date of permit expiration of the existing CAAPP permit in order for the submittal to be deemed timely. Note that the Illinois EPA typically sends out renewal notices approximately 18 months prior to the expiration of the CAAPP permit.

The CAAPP application must provide all of the following information in order for the renewal CAAPP application to be deemed complete by the Illinois EPA:

1. A completed renewal application form 200-CAAPP, APPLICATION FOR CAAPP PERMIT.
2. A completed compliance plan form 293-CAAPP, COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE FOR CAAPP PERMIT.
3. A completed compliance certification form 296-CAAPP, COMPLIANCE CERTIFICATION, signed by the responsible official.
4. Any applicable requirements that became effective during the term of the permit and that were not included in the permit as a reopening or permit revision.
5. If this is the first time this permit is being renewed and this source has not yet addressed CAM, the application should contain the information on form 464-CAAPP, COMPLIANCE ASSURANCE MONITORING (CAM) PLAN.
6. Information addressing any outstanding transfer agreement pursuant to the ERMS.
7. a. If operations of an emission unit or group of emission units remain unchanged and are accurately depicted in previous submittals, the application may contain a letter signed by a responsible official that requests incorporation by reference of existing information previously submitted and on file with the Illinois EPA. This letter must also include a statement that information incorporated by reference is also being certified for truth and accuracy by the responsible official's signing of the form 200-CAAPP, APPLICATION FOR CAAPP PERMIT and the form 296-CAAPP, COMPLIANCE CERTIFICATION. The boxes should be marked yes on form 200-CAAPP, APPLICATION FOR CAAPP PERMIT,

as existing information is being incorporated by reference.

- b. If portions of current operations are not as described in previous submittals, then in addition to the information above for operations that remain unchanged, the application must contain the necessary information on all changes, e.g., discussion of changes, new or revised CAAPP forms, and a revised fee form 292-CAAPP, FEE DETERMINATION FOR CAAPP PERMIT, if necessary.
8. Information about all off-permit changes that were not prohibited or addressed by the permit to occur without a permit revision and the information must be sufficient to identify all applicable requirements, including monitoring, recordkeeping, and reporting requirements, for such changes.
9. Information about all changes made under 40 CFR 70.4(b)(12)(i) and (ii) that require a 7-day notification prior to the change without requiring a permit revision.

The Illinois EPA will review all applications for completeness and timeliness. If the renewal application is deemed both timely and complete, the source shall continue to operate in accordance with the terms and conditions of its CAAPP permit until final action is taken on the renewal application.

Notwithstanding the completeness determination, the Illinois EPA may request additional information necessary to evaluate or take final action on the CAAPP renewal application. If such additional information affects your allowable emission limits, a revised form 292-CAAPP, FEE DETERMINATION FOR CAAPP PERMIT must be submitted with the requested information. The failure to submit to the Illinois EPA the requested information within the time frame specified by the Illinois EPA, may force the Illinois EPA to deny your CAAPP renewal application pursuant to Section 39.5 of the Act.

Application forms may be obtained from the Illinois EPA website at <http://www.epa.state.il.us/air/forms.html>.

If you have any questions regarding this matter, please contact a permit analyst at 217/782-2113.

Mail renewal applications to:

Illinois Environmental Protection Agency
Division of Air Pollution Control

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Permit Section (MC 11)
P.O. Box 19506
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