

217/782-2113

"RENEWAL"
CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT
and

PERMITTEE:

Acme Finishing Company, Inc.
Attn: Dennis W. Walters
1595 East Oakton Street
Elk Grove Village, Illinois 60007-2101

I.D. No.: 031440AFY
Application No.: 95120090

Date Received: September 12, 2003
Date Issued: December 12, 2005
Expiration Date¹: December 12, 2010

Operation of: Metal Finishing/Coated Metal Parts
Source Location: 1595 East Oakton Street, Elk Grove Village, Cook County, 60007
Responsible Official: Dennis W. Walters, President

This permit is hereby granted to the above-designated Permittee to OPERATE a metal parts coating plant, pursuant to the above referenced permit application. This permit is subject to the conditions contained herein.

If you have any questions concerning this permit, please contact David Hulskotter at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:DWH:psj

cc: Illinois EPA, FOS, Region 1
CES
Lotus Notes

¹ Except as provided in Conditions 1.5 and 8.7 of this permit.

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1.0 SOURCE IDENTIFICATION

1.1 Source

Acme Finishing Company, Inc.
1595 East Oakton Street
Elk Grove Village, Illinois 60007
Phone: 847/640-7890

I.D. No.: 031440AFY
County: Cook
Standard Industrial Classification: 3479, Metal Coating and Allied
Services

1.2 Owner/Parent Company

Acme Finishing Company, Inc.
1595 East Oakton Street
Elk Grove Village, Illinois 60007

1.3 Operator

Acme Finishing Company, Inc.
1595 East Oakton Street
Elk Grove Village, Illinois 60007

Dennis W. Walters, President
847/640-7890

1.4 Source Description

Acme Finishing Company, Inc. is located at 1595 East Oakton Street in Elk Grove Village. The source is involved in metal parts coating. There are seven different coating departments, each of which has different coating equipment and capabilities. Other emission units at the source include a vapor degreaser, pyrolysis burnoff furnaces, paint stripping tanks and air makeup units.

1.5 Title I Conditions

As generally identified below, this CAAPP permit contains certain conditions for emission units at this source that address the applicability of permitting programs for the construction and modification of sources. Such programs were established pursuant to Title I of the Clean Air Act (CAA) and regulations thereunder. These programs include 40 CFR 52.21, Prevention of Significant Deterioration (PSD) and 35 IAC Part 203, Major Stationary Sources Construction and Modification (MSSCAM), and are implemented by the Illinois EPA pursuant to Sections 9, 9.1, 39(a) and 39.5(7)(a) of the Illinois Environmental Protection Act (Act). These conditions continue in effect, notwithstanding the expiration date specified on the first page of this permit, as their authority derives from Titles I and V of the CAA, as well as Titles II and X of the Act. (See also Condition 8.7.)

- a. This permit contains "Title I conditions" that reflect Title I requirements established in permits previously issued for this source. Such conditions are specifically designated as "T1."
- b. This permit contains Title I conditions that revise Title I requirements established in permits previously issued for this source. Such conditions are specifically designated as "T1R."

2.0 LIST OF ABBREVIATIONS AND ACRONYMS COMMONLY USED

ACMA	Alternative Compliance Market Account
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
ATU	Allotment Trading Unit
BACT	Best Available Control Technology
BAT	Best Available Technology
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CO	Carbon Monoxide
DSR	Deviation Summary Report
ERMS	Emissions Reduction Market System
HAP	Hazardous Air Pollutant
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
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
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
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

3.0 CONDITIONS FOR 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:

Solvent Recovery Still

- 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:

None

- 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)].

- 3.1.4 Activities that are considered insignificant activities pursuant to 35 IAC 201.210(b). Note: These activities are not required to be individually listed.

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 5.3.2), the Permittee shall comply with the following requirements, as applicable:

- 3.2.1 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 (see Attachment 2) and 35 IAC Part 266. 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.

3.2.2 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 218.301, which requires that organic material emissions not exceed 8.0 pounds per hour or, if no odor nuisance exists, 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	Description	Date Constructed	Emission Control Equipment
PDR1	Powder Line #1	1988	2 Cyclones, Dust Collector and Filters
DIP	Dip Line	1976	2 Cyclones and Dust Collector
FL	Finishing Line	1998	Cartridge Filters
PDR2	Powder Line #2	2003	Cartridge Dust Collector and Dust Collector for Cleaning Station
DISC	Disc Line	1976	2 Cyclones, Dust Collector and Spray Booth Filters
BATCH	Batch Line	1976	Spray Booth Filters
SPR	Spray Line	1976	Spray Booth Filters
BO1	Burnoff Furnace #1	1982	In-Stack Afterburner
BO2	Burnoff Furnace #2	1993	In-Stack Afterburner
ST1	Paint Stripping Tank #1	1976	None
ST2	Paint Stripping Tank #2	5/91	None
EP1	Air Makeup Unit	1976	None
EP2	Air Makeup Unit	1976	None
EP38	Air Makeup Unit	1998	None
EP39	Air Makeup Unit	1998	None
SD	Vapor Degreaser	1996	Freeboard Refrigeration Device, Reduced Room Draft and Freeboard Ratio of 1.0

5.0 OVERALL SOURCE CONDITIONS

5.1 Applicability of Clean Air Act Permit Program (CAAPP)

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

5.2 Area Designation

This permit is issued based on the source being located in an area that, as of the date of permit issuance, is designated nonattainment for the National Ambient Air Quality Standards for Ozone and PM_{2.5} and attainment or unclassifiable for all other criteria pollutants.

5.3 Source-Wide Applicable Provisions and Regulations

5.3.1 Specific emission units at this source are subject to particular regulations as set forth in Section 7 (Unit-Specific Conditions for Specific Emission Units) of this permit.

5.3.2 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.
- b. Pursuant to 35 IAC 212.123(a), 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, except as allowed by 35 IAC 212.123(b) and 212.124.
- c. Pursuant to 35 IAC 237.102, no person shall cause or allow open burning, except the Illinois EPA may grant permits for open burning in accordance with 35 IAC 237.201.

5.3.3 Fugitive Particulate Matter Operating Program

- a. This source shall be operated under the provisions of an operating program prepared by the Permittee and submitted to the Illinois EPA for its review. Such operating program shall be designed to significantly reduce fugitive particulate matter emissions [35 IAC 212.309(a)]. The Permittee shall comply with the fugitive particulate matter operating program, submitted to the Illinois EPA and incorporated by reference into this permit, and any amendments to the program submitted pursuant to paragraph b below.

- b. The operating program shall be amended from time to time by the Permittee so that the operating program is current. Such amendments shall be consistent with the requirements set forth by this Condition and shall be submitted to the Illinois EPA [35 IAC 212.312].
- c. All normal traffic pattern roads and parking facilities located at this source shall be paved or treated with water, oils, or chemical dust suppressants. All paved areas shall be cleaned on a regular basis. All areas treated with water, oils, or chemical dust suppressants shall have the treatment applied on a regular basis, as needed, in accordance with the operating program [35 IAC 212.306].

5.3.4 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.

5.3.5 Risk Management Plan (RMP)

Should this stationary source, as defined in 40 CFR 68.3, become subject to the federal regulations for Chemical Accident Prevention in 40 CFR Part 68, then the owner or operator shall submit the items below. This condition is imposed in this permit pursuant to 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 RMP, as part of the annual compliance certification required by Condition 9.8.

5.3.6 Future Emission Standards

- a. Should this stationary source become subject to a new or revised regulation under 40 CFR Parts 60, 61, 62, or 63, or 35 IAC Subtitle B 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 Condition 9.8. This permit may also have to be revised or reopened to address such new or revised regulations (see Condition 9.12.2).

- 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 regulations under 40 CFR Parts 60, 61, 62, or 63, or 35 IAC Subtitle B that were promulgated after the date issued of this permit.

5.3.7 Episode Action Plan

- a. Pursuant to 35 IAC 244.141, 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 by the Director of the Illinois EPA or his or her designated representative.
- c. If an operational change occurs at the source which invalidates the plan, a revised plan shall be submitted to the Illinois EPA for review within 30 days of the change, pursuant to 35 IAC 244.143(d). Such plans shall be further revised if disapproved by the Illinois EPA.
- d. A copy of the original plan and any subsequent revisions shall also be sent to the Cook County Department of Environmental Control.

5.4 Source-Wide Non-Applicability of Regulations of Concern

Source-wide non-applicability of regulations of concern are not set for this source. However, there may be unit specific non-applicability of regulations of concern set forth in Section 7 of this permit.

5.5 Source-Wide Control Requirements and Work Practices

Regarding 40 CFR 63 Subpart M, for any coating operation(s) on which you use the compliant material option or the emission rate without add-on controls option, you are not required to meet any work practice standards [40 CFR 63.3893(a)].

5.6 Source-Wide Production and Emission Limitations

5.6.1 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 5.6.1) are set for the purpose of establishing fees and are not federally enforceable (see Section 39.5(18) of the Act).

Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	150.00
Sulfur Dioxide (SO ₂)	0.05
Particulate Matter (PM)	15.99
Nitrogen Oxides (NO _x)	7.93
HAP, not included in VOM or PM	-----
Total	173.97

5.6.2 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.

5.6.3 Other Source-Wide Emission Limitations

Effective January 2, 2007 the affected coating lines in Sections 7.1 and 7.2 are subject to the NESHAP for Surface Coating of Miscellaneous Metal Parts and Products, 40 CFR 63 Subparts A and MMM pursuant to 40 CFR 63.3881 and 40 CFR 63.3883. 40 CFR 63.3890 requires the following:

- a. For each existing general use coating affected source, limit organic HAP emissions to no more than 0.31 kg (2.6 lb) organic HAP per liter (gal) coating solids used during each 12-month compliance period.
- b. For each existing high performance coating affected source, limit organic HAP emissions to no more than 3.3 kg (27.5 lb) organic HAP per liter (gal) coating solids used during each 12-month compliance period.
- c. For each existing rubber-to-metal coating affected source, limit organic HAP emissions to no more than 4.5 kg (37.7 lb) organic HAP per liter (gal) coating solids used during each 12-month compliance period.
- d. For each existing extreme performance fluoropolymer coating affected source, limit organic HAP emissions to no more

than 1.5 kg (12.4 lbs) organic HAP per liter (gal) coating solids used during each 12-month compliance period.

- e. If your facility's surface coating operations meet the applicability criteria of more than one of the subcategory emission limits specified in 40 CFR 63.3890(a) or (b), you may comply separately with each subcategory emission limit or comply using one of the alternatives listed in 40 CFR 63.3890(c) (1) or (2).
- f. The following are the options for meeting the limits of 40 CFR 63.3890:
 - i. Compliant material option. Demonstrate that the organic HAP content of each coating used in the coating operation(s) is less than or equal to the applicable emission limit in 40 CFR 63.3890, and that each thinner and/or other additive, and cleaning material used contains no organic HAP. You must meet all the requirements of 40 CFR 63.3940, 63.3941 and 63.3942 to demonstrate compliance with the applicable emission limit using this option [40 CFR 63.3891(a)].
 - ii. Emission rate without add-on controls option. Demonstrate that, based on the coatings, thinners and/or other additives, and cleaning materials used in the coating operation(s), the organic HAP emission rate for the coating operation(s) is less than or equal to the applicable emission limit in 40 CFR 63.3890, calculated as a rolling 12-month emission rate and determined on a monthly basis. You must meet all the requirements of 40 CFR 63.3950, 63.3951 and 63.3952 to demonstrate compliance with the emission limit using this option.

5.7 Source-Wide Testing Requirements

5.7.1 Pursuant to 35 IAC 201.282 and Section 4(b) of the Act, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:

- a. Testing by Owner or Operator: The Illinois EPA may require the owner or operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the Illinois EPA, at such reasonable times as may be specified by the Illinois EPA and at the expense of the owner or operator of the emission source or air pollution control equipment. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The Illinois EPA shall have the

right to observe all aspects of such tests [35 IAC 201.282(a)].

- b. Testing by the Illinois EPA: The Illinois EPA shall have the right to conduct such tests during a reasonable time at its own expense. Upon request of the Illinois EPA, the owner or operator of the emission source or air pollution control equipment shall provide, without charge to the Illinois EPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary [35 IAC 201.282(b)].
- c. Any such tests are also subject to the Testing Procedures of Condition 8.5 set forth in the General Permit Conditions of Section 8.
- d.
 - i. The Permittee shall perform all applicable coatings testing for the affected coating lines as specified by 40 CFR 63.6941 and 63.3951.
 - ii. Testing may be conducted by the supplier of the coatings.

5.8 Source-Wide Monitoring Requirements

Source-wide monitoring requirements are not set for this source. However, there may be provisions for unit specific monitoring set forth in Section 7 of this permit.

5.9 Source-Wide Recordkeeping Requirements

5.9.1 Annual Emission Records

The Permittee shall maintain records of total annual emissions on a calendar year basis for the emission units covered by Section 7 (Unit Specific Conditions for Specific Emission Units) of this permit to demonstrate compliance with Condition 5.6.1, pursuant to Section 39.5(7)(b) of the Act.

5.9.2 Records for HAP Emissions

The Permittee shall maintain records of HAP emissions on a calendar year basis for the emission units covered by Section 7 (Unit Specific Conditions for Specific Emission Units) of this permit, pursuant to Section 39.5(7)(b) of the Act.

5.9.3 Records for Other Source-Wide Emission Limitations

The Permittee shall retain all applicable records for the affected coating lines as specified by 40 CFR 63.3930 and 63.3931.

5.9.4 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.

5.10 Source-Wide Reporting Requirements

5.10.1 General Source-Wide Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the source with the permit requirements as follows within 30 days, 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. There are also reporting requirements for specific emission units set forth in Section 7 of this permit.

5.10.2 Annual Emissions Report

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

5.10.3 Other Source-Wide Reporting Requirements

The Permittee shall submit all applicable reports for the affected coating lines as specified in 40 CFR 63.3910 and 63.3920.

5.11 Source-Wide Operational Flexibility/Anticipated Operating Scenarios

Source-wide operational flexibility is not set for this source. However, there may be provisions for unit specific operational flexibility set forth in Section 7 of this permit.

5.12 Source-Wide Compliance Procedures

5.12.1 Procedures for Calculating Emissions

- a. Except as provided in Condition 9.1.3, compliance with the source-wide emission limits specified in Condition 5.6 shall be addressed by the recordkeeping and reporting

requirements of this permit, and compliance procedures in Section 7 (Unit Specific Conditions for Specific Emission Units) of this permit.

5.12.2 Other Source-Wide Compliance Procedures

The Permittee shall perform all applicable compliance provisions of 40 CFR 63.3900, 63.3940 - 63.3942 and 63.3950 - 63.3952.

6.0 CONDITIONS FOR EMISSIONS CONTROL PROGRAMS

6.1.1 Description of ERMS

The ERMS is a "cap and trade" market system for major stationary sources located in the Chicago ozone nonattainment area. It is designed to reduce VOM emissions from stationary sources to contribute to reasonable further progress toward attainment, as required by Section 182(c) of the CAA.

The ERMS addresses VOM emissions during a seasonal allotment period from May 1 through September 30. Participating sources must hold "allotment trading units" (ATUs) for their actual seasonal VOM emissions. Each year participating sources are issued ATUs based on allotments set in the sources' CAAPP permits. These allotments are established from historical VOM emissions or "baseline emissions" lowered to provide the emissions reductions from stationary sources required for reasonable further progress.

By December 31 of each year, the end of the reconciliation period following the seasonal allotment period, each source shall have sufficient ATUs in its transaction account to cover its actual VOM emissions during the preceding season. A transaction account's balance as of December 31 will include any valid ATU transfer agreements entered into as of December 31 of the given year, provided such agreements are promptly submitted to the Illinois EPA for entry into the transaction account database. The Illinois EPA will then retire ATUs in sources' transaction accounts in amounts equivalent to their seasonal emissions. When a source does not appear to have sufficient ATUs in its transaction account, the Illinois EPA will issue a notice to the source to begin the process for Emissions Excursion Compensation.

In addition to receiving ATUs pursuant to their allotments, participating sources may also obtain ATUs from the market, including ATUs bought from other participating sources and general participants in the ERMS that hold ATUs (35 IAC 205.630) and ATUs issued by the Illinois EPA as a consequence of VOM emissions reductions from an Emissions Reduction Generator or an Intersector Transaction (35 IAC 205.500 and 35 IAC 205.510). During the reconciliation period, sources may also buy ATUs from a secondary reserve of ATUs managed by the Illinois EPA, the "Alternative Compliance Market Account" (ACMA) (35 IAC 205.710). Sources may also transfer or sell the ATUs that they hold to other sources or participants (35 IAC 205.630).

6.1.2 Applicability

This source is considered a "participating source" for purposes of the ERMS, 35 IAC Part 205.

6.1.3 Obligation to Hold Allotment Trading Units (ATUs)

- a. Pursuant to 35 IAC 205.150(c) (1) and 35 IAC 205.720, and as further addressed by Condition 6.1.8, as of December 31 of each year, this source shall hold ATUs in its account in an amount not less than the ATU equivalent of its VOM emissions during the preceding seasonal allotment period (May 1 - September 30), not including VOM emissions from the following, or the source shall be subject to "emissions excursion compensation," as described in Condition 6.1.5.
 - i. VOM emissions from insignificant emission units and activities as identified in Section 3 of this permit, in accordance with 35 IAC 205.220;
 - ii. Excess VOM emissions associated with startup, malfunction, or breakdown of an emission unit as authorized in Section 7.0 of this permit, in accordance with 35 IAC 205.225;
 - iii. Excess VOM emissions to the extent allowed by a Variance, Consent Order, or Compliance Schedule, in accordance with 35 IAC 205.320(e) (3);
 - iv. Excess VOM emissions that are a consequence of an emergency as approved by the Illinois EPA, pursuant to 35 IAC 205.750; and
 - v. VOM emissions from certain new and modified emission units as addressed by Condition 6.1.8(b), if applicable, in accordance with 35 IAC 205.320(f).
- b. Notwithstanding the above condition, in accordance with 35 IAC 205.150(c) (2), if a source commences operation of a major modification, pursuant to 35 IAC Part 203, the source shall hold ATUs in an amount not less than 1.3 times its seasonal VOM emissions attributable to such major modification during the seasonal allotment period, determined in accordance with the construction permit for such major modification or applicable provisions in Section 7.0 of this permit.

6.1.4 Market Transactions

- a. The source shall apply to the Illinois EPA for and obtain authorization for a Transaction Account prior to conducting any market transactions, as specified at 35 IAC 205.610(a).
- b. The Permittee shall promptly submit to the Illinois EPA any revisions to the information submitted for its Transaction Account, pursuant to 35 IAC 205.610(b).
- c. The source shall have at least one account officer designated for its Transaction Account, pursuant to 35 IAC 205.620(a).

- d. Any transfer of ATUs to or from the source from another source or general participant must be authorized by a qualified Account Officer designated by the source and approved by the Illinois EPA, in accordance with 35 IAC 205.620, and the transfer must be submitted to the Illinois EPA for entry into the Transaction Account database.

6.1.5 Emissions Excursion Compensation

Pursuant to 35 IAC 205.720, if the source fails to hold ATUs in accordance with Condition 6.1.3, it shall provide emissions excursion compensation in accordance with the following:

- a. Upon receipt of an Excursion Compensation Notice issued by the Illinois EPA, the source shall purchase ATUs from the ACMA in the amount specified by the notice, as follows:
 - i. The purchase of ATUs shall be in an amount equivalent to 1.2 times the emissions excursion; or
 - ii. If the source had an emissions excursion for the seasonal allotment period immediately before the period for the present emissions excursion, the source shall purchase ATUs in an amount equivalent to 1.5 times the emissions excursion.
- b. If requested in accordance with paragraph (c) below or in the event that the ACMA balance is not adequate to cover the total emissions excursion amount, the Illinois EPA will deduct ATUs equivalent to the specified amount or any remaining portion thereof from the ATUs to be issued to the source for the next seasonal allotment period.
- c. Pursuant to 35 IAC 205.720(c), within 15 days after receipt of an Excursion Compensation Notice, the owner or operator may request that ATUs equivalent to the amount specified be deducted from the source's next seasonal allotment by the Illinois EPA, rather than purchased from the ACMA.

6.1.6 Quantification of Seasonal VOM Emissions

- a. The methods and procedures specified in Sections 5 and 7 of this permit for determining VOM emissions and compliance with VOM emission limitations shall be used for determining seasonal VOM emissions for purposes of the ERMS, with the following exceptions [35 IAC 205.315(b)]:

No exceptions

- b. The Permittee shall report emergency conditions at the source to the Illinois EPA, in accordance with 35 IAC 205.750, if the Permittee intends to deduct VOM emissions in excess of the technology-based emission rates normally achieved that are attributable to the emergency from the

source's seasonal VOM emissions for purposes of the ERMS. These reports shall include the information specified by 35 IAC 205.750(a), and shall be submitted in accordance with the following:

- i. An initial emergency conditions report within two days after the time when such excess emissions occurred due to the emergency; and
- ii. A final emergency conditions report, if needed to supplement the initial report, within 10 days after the conclusion of the emergency.

6.1.7 Annual Account Reporting

- a. For each year in which the source is operational, the Permittee shall submit, as a component of its Annual Emissions Report, seasonal VOM emissions information to the Illinois EPA for the seasonal allotment period. This report shall include the following information [35 IAC 205.300]:
 - i. Actual seasonal emissions of VOM from the source;
 - ii. A description of the methods and practices used to determine VOM emissions, as required by this permit, including any supporting documentation and calculations;
 - iii. A detailed description of any monitoring methods that differ from the methods specified in this permit, as provided in 35 IAC 205.337;
 - iv. If a source has experienced an emergency, as provided in 35 IAC 205.750, the report shall reference the associated emergency conditions report that has been approved by the Illinois EPA;
 - v. If a source's baseline emissions have been adjusted due to a Variance, Consent Order, or CAAPP permit Compliance Schedule, as provided for in 35 IAC 205.320(e) (3), the report shall provide documentation quantifying the excess VOM emissions during the season that were allowed by the Variance, Consent Order, or Compliance Schedule, in accordance with 35 IAC 205.320(e) (3); and
 - vi. If a source is operating a new or modified emission unit for which three years of operational data is not yet available, as specified in 35 IAC 205.320(f), the report shall specify seasonal VOM emissions attributable to the new emission unit or the modification of the emission unit.

- b. This report shall be submitted by November 30 of each year, for the preceding seasonal allotment period.

6.1.8 Allotment of ATUs to the Source

- a.
 - i. The allotment of ATUs to this source is 269 ATUs per seasonal allotment period.
 - ii. This allotment of ATUs reflects the Illinois EPA's determination that the source's baseline emissions were 30.5522 tons per season.
 - iii. The source's allotment reflects 88% of the baseline emissions (12% reduction), except for the VOM emissions from specific emission units excluded from such reduction, pursuant to 35 IAC 205.405, including units complying with MACT or using BAT, as identified in Condition 6.1.10 of this permit.
 - iv. ATUs will be issued to the source's Transaction Account by the Illinois EPA annually. These ATUs will be valid for the seasonal allotment period following issuance and, if not retired in this season, the next seasonal allotment period.
 - v. Condition 6.1.3(a) becomes effective beginning in the seasonal allotment period following the initial issuance of ATUs by the Illinois EPA into the Transaction Account for the source.

b. Contingent Allotments for New or Modified Emission Units

None

The source was not issued a construction permit prior to January 1, 1998 for the following new or modified emission units:

Emission Unit	Construction Permit No.	Date Issued
Finishing Line	98120013	12-23-98
Powder Line #2	03010021	01-13-03
Natural Gas-Fired Washer & Oven	04050063	05-21-04
Paint Booth #1	05050086	8-25-05

In accordance with 35 IAC Part 205, for the above referenced emission units, the source is required to hold the appropriate amount of ATUs for these emission units.

- c. Notwithstanding the above, part or all of the above ATUs will not be issued to the source in circumstances as set forth in 35 IAC Part 205, including:
 - i. Transfer of ATUs by the source to another participant or the ACMA, in accordance with 35 IAC 205.630;

- ii. Deduction of ATUs as a consequence of emissions excursion compensation, in accordance with 35 IAC 205.720; and
- iii. Transfer of ATUs to the ACMA, as a consequence of shutdown of the source, in accordance with 35 IAC 205.410.

6.1.9 Recordkeeping for ERMS

The Permittee shall maintain copies of the following documents as its Compliance Master File for purposes of the ERMS [35 IAC 205.700(a)]:

- a. Seasonal component of the Annual Emissions Report;
- b. Information on actual VOM emissions, as specified in detail in Sections 5 and 7 of this permit and Condition 6.1.6(a); and
- c. Any transfer agreements for the purchase or sale of ATUs and other documentation associated with the transfer of ATUs.

6.1.10 Exclusions from Further Reductions

- a. VOM emissions from the following emission units shall be excluded from the VOM emissions reductions requirements specified in 35 IAC 205.400(c) and (e) as long as such emission units continue to satisfy the following [35 IAC 205.405(a)]:
 - i. Emission units that comply with any NESHAP or MACT standard promulgated pursuant to the CAA;
 - ii. Direct combustion emission units designed and used for comfort heating purposes, fuel combustion emission units, and internal combustion engines; and
 - iii. An emission unit for which a LAER demonstration has been approved by the Illinois EPA on or after November 15, 1990.

The source has demonstrated in its ERMS application and the Illinois EPA has determined that the following emission units qualify for exclusion from further reductions because they meet the criteria as indicated above [35 IAC 205.405(a) and (c)]:

Air Make-Up Units
Batch Vapor Degreaser

- b. VOM emissions from emission units using BAT for controlling VOM emissions shall not be subject to the VOM emissions

reductions requirement specified in 35 IAC 205.400(c) or (e) as long as such emission unit continues to use such BAT [35 IAC 205.405(b)].

The source has demonstrated in its ERMS application and the Illinois EPA has determined that the following emission units qualify for exclusion from further reductions because these emission units use BAT for controlling VOM emissions as indicated above [35 IAC 205.405(b) and (c)]:

None

7.0 UNIT SPECIFIC CONDITIONS FOR SPECIFIC EMISSION UNITS

7.1 Powder Line #2, Dip Line, and Finishing Line

7.1.1 Description

The powder line applies powder coatings to metal parts with manual and/or automatic guns and are equipped with a powder recovery system. The dip line applies water-borne coatings by a dipping process and powder coatings with manual and/or automatic guns to metal parts. The finishing line is used to coat metal parts. The finishing line consists of an automatic coating powder booth and a manual coating powder booth. A NESHAP for miscellaneous metal parts coating is addressed in Section 5.

<u>Dip Line</u>	<u>Finishing Line</u>	<u>Powder Line #2</u>
<u>Consists of:</u>	<u>Consists of:</u>	<u>Consists of:</u>
Phosphate Washer	2 Powder Booths	Powder Booth
Dry-Off Oven	Curing Oven	2 Dust Collectors
Paint Dip Tank	Drying Oven	Infrared Cure Oven
2 Powder Booths	Cartridge Filters	Cool Down Chamber
2 Cyclones	Pretreatment System	
Dust Collector Bake Oven		

7.1.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
DIP	Dip Line	1976	2 Cyclones and Dust Collector
FL	Finishing Line	1998	Cartridge Filters
PDR2	Powder Line #2	2003	2 Dust Collectors

7.1.3 Applicable Provisions and Regulations

- a. The "affected coating lines" for the purpose of these unit specific conditions are the coating lines described in Conditions 7.1.1 and 7.1.2.
- b. The affected coating lines are subject to the emission limits identified in Condition 5.3.2.
- c. Each affected coating line is subject to 35 IAC 218.204(j) (4) miscellaneous metal parts and products coating which provides that:
 - i. No owner or operator of an affected coating line shall apply at any time any coating in which the VOM content exceeds the following emission limitations for the coating as applied to miscellaneous metal parts and products. The following emission limitation is expressed in units of VOM per volume of coating (minus water and any compounds which are

specifically exempted from the definition of VOM) as applied at each coating applicator.

<u>All Other Coatings</u>	<u>Kg/liter</u>	<u>Pound/Gallon</u>
Baked	0.34	2.8
Air Dried	0.40	3.3

- ii. Compounds which are specifically exempted from the definition of VOM should be treated as water for the purpose of calculating the "less water" part of the coating composites.
- d. The emissions of particulate matter into the atmosphere in any one hour period from each of the affected coating lines shall not exceed the allowable emission rates specified in Subsection C of 35 IAC 212.321 [35 IAC 212.321]:

Allowable particulate matter emissions for 35 IAC 212.321 are listed in Attachment 2.

7.1.4 Non-Applicability of Regulations of Concern

- a. Each affected coating line is not subject to 35 IAC 218.301, Use of Organic Material, pursuant to 35 IAC 218.209, Exemption From General Rule on Use of Organic Material which excludes affected coating lines from this requirement.

7.1.5 Control Requirements and Work Practices

- a. Natural Gas shall be the only fuel fired in the affected coating lines
- b. The Permittee shall follow good operating practices for the cyclones and dust collectors including periodic inspection, routine maintenance, repair of defects and visual emission checks.

7.1.6 Production and Emission Limitations

In addition to Condition 5.3.2 and the source wide emission limitations in Condition 5.6, the affected coating lines are subject to the following:

- a. Emissions and operation of the powder coating finishing line (FL) shall not exceed the following limits:

<u>Powder Paint Usage</u>		<u>Particulate Matter Emissions</u>	
<u>(lb/month)</u>	<u>(ton/year)</u>	<u>(lb/month)</u>	<u>(ton/year)</u>
285,120	1,648	489	2.82

These limits are based on maximum operation and the allowable requirement 35 IAC 212.321. Compliance with

annual limits shall be determined from a running total of 12 months of data.

- b. This permit is based on negligible emissions of particulate matter from Powder Line #2. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.2 tons/year.
- c. The above limitations were established in Permits 98120013 and 03010021, pursuant to 35 IAC Part 203. These limits ensure that the construction and/or modification addressed in the aforementioned permits does not constitute a new major source or major modification pursuant to Title I of the CAA, specifically 35 IAC Part 203 [T1].

7.1.7 Testing Requirements

Testing for VOM content of coatings shall be performed as follows [35 IAC 218.105(a), 218.404(a), and Section 39.5(7)(b) of the Act]:

- a. On at least an annual basis:
 - i. The VOM content of representative liquid coatings "as applied" on affected printing lines shall be determined according to USEPA Reference Methods 24.
 - ii. This testing may be performed by the supplier of a material provided that the supplier provides appropriate documentation for such testing to the Permittee and the Permittee's records pursuant to Condition 7.1.9 directly reflect the application of such material and separately account for any additions of solvent.
 - iii. Upon written request from the Permittee, the Illinois EPA may waive this requirement on a year-by-year basis, if prior testing shows a margin of compliance and no significant changes in coating supplies have occurred.

7.1.8 Monitoring Requirements

Monitoring requirements are not set for the affected coating lines. However, there may be provisions for source-wide monitoring requirements set forth in Condition 5.8 of this permit.

7.1.9 Recordkeeping Requirements

In addition to the records required by Condition 5.9, the Permittee shall maintain records of the following items for the affected coating lines to demonstrate compliance with the Conditions of this permit, pursuant to Section 39.5(7)(b) of the Act:

- a. The name and identification number of each coating as applied [35 IAC 218.211(c) (2) (A)].
- b. The weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied [35 IAC 218.211(c) (2) (B)] in units of pounds per gallon.
- c. Records of coating VOM content testing and material safety data sheets.
- d. Annual usage of coatings.
- e. Annual emissions.
- f. Maintenance records for the cyclones and dust collectors.

7.1.10 Reporting Requirements

- a. The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of an affected coating line with the permit requirements within 30 days, 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.
- b. The Permittee shall notify the Illinois EPA at least 30 calendar days before changing the method of compliance from 35 IAC 218.204 to 35 IAC 218.205 or 35 IAC 218.207. The Permittee shall certify compliance for such new methods in accordance with the requirements of the certification reports of Condition 9.8 and perform all tests and calculations necessary to demonstrate that the affected coating line(s) will be in compliance [35 IAC 218.204(c) (3) (B)].

7.1.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to the affected coating lines 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. The Permittee is authorized to utilize any coating in any of the paint spray booths and powder booths at this source provided that the permit conditions are complied with.

7.1.12 Compliance Procedures

- a. Calculation of VOM emissions shall be calculated using the following equation:

VOM Emissions = VOM Containing Material Usage x VOM
Content

- b. Compliance with the PM limitations of Condition 7.1.3 are addressed by the operating requirements in Condition 7.1.5 and recordkeeping requirements in Condition 7.1.9.
- c. Calculation of particulate matter emissions from the powder booths shall be calculated using the following emission factor:

Emission Factor = 0.6 lb PM/ton of Powder Paint

7.2 Disc Line, Batch Line, Spray Line and Powder Line #1

7.2.1 Description

Liquid spray painting and powder painting of metal parts is done on each of these lines.

<u>Powder Line #1</u> Consists of:	<u>Disc Line</u> Consists of:	<u>Batch Line</u> Consists of:	<u>Spray Line</u> Consists of:
Powder Booth 2 Cyclones Dust Collector Bake Oven Paint Booth #1 with Filters	Phosphate Washer Combination Dry- Off/Bake Oven 3 Spray Booths with Filters 1 Powder Booth 2 Cyclones Dust Collector Bake Oven	4 Spray Booths with Filters 2 Bake Ovens	Phosphate Washer Dry-Off Oven 4 Spray Booths with Filters Flash-Off Oven Bake Oven

7.2.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
DISC	Disc Line	1976	2 Cyclones, Dust Collector and Spray Booth Filters
BATCH	Batch Line	1976	Spray Booth Filters
SPR	Spray Line	1976	Spray Booth Filters
PDR1	Powder Line #1	1988	2 Cyclones, Dust Collector and Filters

7.2.3 Applicable Provisions and Regulations

- a. The "affected coating lines" for the purpose of these unit specific conditions, are the coating lines described in Conditions 7.2.1 and 7.2.2.
- b. The affected coating lines are subject to the emission limits identified in Condition 5.3.2.
- c. Each affected coating line is subject to 35 IAC 218.205(b) daily weighted average miscellaneous metal parts and products coating (all other coatings baked). This regulation requires that the daily-weighted average VOM content of all coatings applied on an affected coating line shall not exceed 2.8 pounds of VOM per gallon (minus water and any compounds which are specifically exempted from the definition of VOM).
- d. The emission of particulate matter into the atmosphere in any one hour period from each of the affected coating lines shall not exceed the allowable emission rates specified in Subsection (c) of 35 IAC 212.321 [35 IAC 212.321]:

Allowable particulate matter emissions for 35 IAC 212.321 are listed in Attachment 2.

- e. Pursuant to 40 CFR 63.3883 Paint Booth #1 of the powder line is subject to 40 CFR 63 Subparts A and Mmmm upon initial startup (see Condition 5.6.3).

7.2.4 Non-Applicability of Regulations of Concern

Non-applicability of regulations of concern are not set for the affected coating lines. However, there may be source-wide non-applicability of regulations of concern set forth in Condition 5.4.

7.2.5 Control Requirements and Work Practices

- a. Natural gas shall be the only fuel fired in the affected coating lines.
- b. The Permittee shall follow good operating practices for the cyclones, dust collector and spray booth filters including periodic inspection, routine maintenance, repair of defects and visual emission checks.

7.2.6 Production and Emission Limitations

In addition to Condition 5.3.2 and the source wide emission limitations in Condition 5.6, the affected coating lines are subject to the following:

- a. Emissions and operation of the spray line shall not exceed the following limits:

<u>Materials</u>	<u>Total VOM Usage</u>		<u>VOM Emissions</u>	
	<u>(lb/mo)</u>	<u>(ton/yr)</u>	<u>(lb/mo)</u>	<u>(ton/yr)</u>
Liquid Coating	8,400	42.0	8,400	42.0
Other VOM Containing Materials	1,800	9.0	1,800	9.0
				51.0

These limits are based on maximum operation and material balance. Compliance with annual limits shall be determined from a running total of 12 months of data.

The above limitations contain revisions to previously issued Permit 97070061. The source has requested that the Illinois EPA establish conditions in this permit that allow various refinements from the conditions of this aforementioned permit, consistent with the information provided in the CAAPP application. The source has requested these revisions and has addressed the applicability and compliance of Title I of the CAA, specifically 35 IAC Part 203, Major Stationary Sources Construction and Modification and/or 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These

limits continue to ensure that the construction and/or modification addressed in this permit does not constitute a new major source or major modification pursuant to these rules. These limits are the primary enforcement mechanism for the equipment and activities permitted in this permit and the information in the CAAPP application contains the most current and accurate information for the source. Specifically, coating and solvent usage limits have been removed, monthly limits have been increased and annual VOM emission limits have decreased by 0.39 tons/year [T1R].

- b. The total amount of VOM in the VOM containing material used in Paint Booth #1 (i.e., paint and clean-up solvents) shall not exceed 2.5 tons/month and 15.0 tons/year.

Total emissions of VOM from Paint Booth #1 shall not exceed 2.5 tons/month and 15.0 tons/year.

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

These limits are for Paint Booth #1 which is a part of the Powder Line #1 PDR1. The total emissions of PDR1 may go above these limits.

The above limitations were established in Permit 05050086, pursuant to 35 IAC Part 203. 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 35 IAC Part 203 [T1].

7.2.7 Testing Requirements

See Condition 7.1.7.

7.2.8 Monitoring Requirements

Monitoring requirements are not set for the affected coating lines. However, there may be provisions for source-wide monitoring requirements set forth in Condition 5.8 of this permit.

7.2.9 Recordkeeping Requirements

In addition to the records required by Condition 5.9, the Permittee shall maintain records of the following items for the affected coating lines to demonstrate compliance with the Conditions of this permit, pursuant to Section 39.5(7)(b) of the Act:

- a. The name and identification number of each coating as applied [35 IAC 218.211(d)(2)(A)]

- b. The weight of VOM per volume and the volume of each coating (minus water and any compound which are specifically exempted from the definition of VOM) as applied each day on each coating line [35 IAC 218.211(d) (2) (B)] in units of pounds per gallon.
- c. The daily weighted average VOM content (minus water and any compounds which are specifically exempted from the definition of VOM) of all coatings as applied on each coating line [35 IAC 218.211(d) (2) (D)].
- d. The monthly usage of coatings used on the spray line in units of pounds.
- e. Monthly VOM emissions from spray line in pounds.
- f. Annual usage of coatings.
- g. Annual emissions.
- h. Records of coating VOM content testing and material safety data sheets.
- i. Maintenance records for the cyclones and dust collectors.

7.2.10 Reporting Requirements

- a. The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected coating lines with the permit requirements within 30 days, 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.

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 coating lines 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. The Permittee is authorized to utilize any coating in any of the paint spray booths and powder booths at this source provided that the permit conditions are complied with.

7.2.12 Compliance Procedures

- a. Calculation of VOM emissions shall be calculated using the following equation:

$$\text{VOM Emissions} = \text{VOM Containing Material Usage} \times \text{VOM Content}$$

- b. Compliance with Condition 7.2.3(c) shall be determined using the following [35 IAC 211.1670]:

$$\text{VOM}_w = \left[\sum_{i=1}^n V_i C_i \right] / V_T$$

Where:

VOM_w = The average VOM content of two or more coatings as applied each day on a coating line in units of kg VOM/1 (lbs VOM/Gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM),

n = The number of different coatings as applied each day on a coating line,

V_i = The volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on a coating line in units of 1 (gal).

C_i = The VOM content of each coating as applied each day on a coating line in units of kg VOM/1 (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM), and

V_T = The total volume of all coatings (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on a coating line in units of 1 (gal).

- c. Compliance with the PM limitations of Condition 7.2.3(d) is addressed by the operating requirements in Condition 7.2.5(b) and recordkeeping requirements in Condition 7.2.9.

7.3 Pyrolysis Burnoff Furnaces

7.3.1 Description

Both of these furnaces are less than 1 million Btu per hour capacity. Each is used to remove coatings from the racks used to hold the metal parts to be coated. Each furnace is equipped with an afterburner to provide further destruction before final discharge.

7.3.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
B01	Burnoff Furnace #1	1982	In-Stack Afterburner
B02	Burnoff Furnace #2	1993	In-Stack Afterburner

7.3.3 Applicable Provisions and Regulations

- a. The "affected pyrolysis burnoff furnaces" for the purpose of these unit-specific conditions, are described in Conditions 7.3.1 and 7.3.2.
- b. The affected pyrolysis burnoff furnaces are subject to the emission limits identified in Condition 5.3.2.
- c. Each affected burn-off furnace at the source is subject to 35 IAC 212.321(a), which requires that:
 - i. 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 [35 IAC 212.321(a)].

Allowable particulate matter emissions for 35 IAC 212.321 are listed in Attachment 2.

- d. The affected burnoff furnaces are subject to 35 IAC 218 Subpart G, Use of Organic Material, which provides that:

No person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission unit, except as provided in 35 IAC 218.302 and the following exception: If no odor nuisance exists the limitation of 35 IAC 218 Subpart G shall apply only to photochemically reactive material [35 IAC 218.301].

- e. No person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2000 ppm [35 IAC 214.301].

7.3.4 Non-Applicability of Regulations of Concern

- a. The burnoff furnaces are not incinerators, therefore 35 IAC 212 Subpart D and 35 IAC 216 Subpart C do not apply.
- b. There are no applicable nitrogen oxides or carbon monoxide process emission unit regulations for a process emission unit burning natural gas.
- c. The affected burnoff furnaces are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because they do not have potential pre-control device emissions of the applicable regulated air pollutant that equals or exceeds major source threshold levels.

7.3.5 Control Requirements and Work Practices

- a. Material insulated with polyvinyl chloride or asbestos, or scrap containing the fuming metals tin, zinc, or lead shall not be charged to an affected pyrolysis burnoff furnace.
- b. Natural gas shall be the only fuel fired in the affected pyrolysis burnoff furnaces.

7.3.6 Production and Emission Limitations

Production and emission limitations are not set for the affected pyrolysis burnoff furnaces. However, there are source-wide production and emission limitations set forth in Condition 5.6.

7.3.7 Testing Requirements

Testing requirements are not set for the affected pyrolysis burnoff furnaces. However, there are source-wide testing requirements in Condition 5.7 and general testing requirements in Condition 8.5.

7.3.8 Monitoring Requirements

The afterburner for an affected pyrolysis burnoff furnace shall be heated to an operating temperature of 1400°F before charging and this temperature shall be maintained during operation. An affected pyrolysis burnoff furnace shall be equipped with an afterburner temperature indicator.

7.3.9 Recordkeeping Requirements

In addition to the records required by Condition 5.9, the Permittee shall maintain records of the following items for the

affected pyrolysis burnoff furnaces to demonstrate compliance with the permit requirements, pursuant to Section 39.5(7)(b) of the Act:

- a. Records of operating temperatures of the afterburners in °F.
- b. Records of maximum process weight rates (lb/hr).

7.3.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected pyrolysis burnoff furnaces with the permit requirements within 30 days, 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.

7.3.11 Operational Flexibility/Anticipated Operating Scenarios

Operational flexibility is not set for the affected pyrolysis burnoff furnaces. However, there may be provisions for source-wide operational flexibility set forth in Condition 5.11 of this permit.

7.3.12 Compliance Procedures

Compliance provisions addressing Conditions 7.3.3(c), (d) and (e) are not set by this permit as compliance assumed to be achieved by the normal work practices and maintenance activities inherent in operation of an affected pyrolysis burnoff furnace.

7.4 Paint Stripping Tanks

7.4.1 Description

Each emission unit is a stripping tank using stripping chemicals to remove paint from either racks or metal parts.

7.4.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
ST1	Paint Stripping Tank #1	1976	None
ST2	Paint Stripping Tank #2	5/91	None

7.4.3 Applicable Provisions and Regulations

- a. The "affected paint stripping tanks" for the purpose of these unit-specific conditions, are described in Conditions 7.4.1 and 7.4.2.
- b. The affected paint stripping tanks are subject to the emission limits identified in Condition 5.3.2.
- c. The Permittee shall not cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from an affected paint stripping tank [35 IAC 218.301]. If no odor nuisance exists this limitation shall apply only to photochemically reactive material.
- d. The emission of particulate matter into the atmosphere in any one hour period from each of the affected paint stripping tanks shall not exceed the allowable emission rates specified in Subsection (c) of 35 IAC 212.321 [35 IAC 212.321]:

Allowable particulate matter emissions for 35 IAC 212.321 are listed in Attachment 2.

7.4.4 Non-Applicability of Regulations of Concern

The control requirements of 35 IAC 218 Subpart TT do not apply to affected paint stripping tanks because the emissions of VOM are below applicability levels.

7.4.5 Control Requirements and Work Practices

Natural gas shall be the only fuel fired in the alkali salt paint stripper.

7.4.6 Production and Emission Limitations

In addition to Condition 5.3.2 and the source wide emission limitations in Condition 5.6, the affected stripping tanks are subject to the following:

Emissions and operation of paint stripping tank #2 shall not exceed the following limits:

VOM Stripping Chemicals		VOM Emissions	
<u>(lb/mo)</u>	<u>(ton/yr)</u>	<u>(lb/mo)</u>	<u>(ton/yr)</u>
221	1.16	221	1.16

These limits are based on maximum operation and material balance. Compliance with annual limits shall be determined from a running total of 12 months of data. There are no usage limitations for stripping chemicals that do not contain VOM.

The above limitations were established in Permit 98120013. These limits ensure that the affected paint stripping tanks are not subject to the control requirements of 35 IAC Part 203 [T1].

7.4.7 Testing Requirements

Upon request by the Illinois EPA, the VOM contents of the stripping chemicals shall be determined according to USEPA Reference Methods 24 and 24A of 40 CFR 60 Appendix A.

7.4.8 Monitoring Requirements

Monitoring requirements are not set for the affected paint stripping tanks. However, there may be provisions for source-wide monitoring requirements set forth in Condition 5.8 of this permit.

7.4.9 Recordkeeping Requirements

In addition to the records required by Condition 5.9, the Permittee shall maintain records of the following items for the affected paint stripping tanks to demonstrate compliance with the permit conditions, pursuant to Section 39.5(7)(b) of the Act:

- a. Monthly usage of stripping chemicals in pounds.

Including chemicals added to bath or expended during the operation.

- b. Maximum hourly VOM emission in pounds.
- c. VOM content of stripping chemicals in weight %.

7.4.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected paint stripping tanks with the permit requirements within 30 days, 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.

7.4.11 Operational Flexibility/Anticipated Operating Scenarios

Operational flexibility is not set for the affected paint stripping lines. However, there may be provisions for source-wide operational flexibility set forth in Condition 5.11 of this permit.

7.4.12 Compliance Procedures

Calculation of VOM emissions shall be calculated using the following equation:

$$\text{VOM Emissions (lb)} = \text{VOM Containing Material Usage (lb)} \times \text{VOM Content (weight \%)}$$

7.5 Air Makeup Units

7.5.1 Description

Air makeup units are used for conditioning plant air. The capacity of each individual air makeup unit is not more than 6 million Btu per hour.

7.5.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
EP1	Air Makeup Unit	1976	None
EP2	Air Makeup Unit	1976	None
EP38	Air Makeup Unit	1998	None
EP39	Air Makeup Unit	1998	None

7.5.3 Applicable Provisions and Regulations

- a. The "affected air makeup units" for the purpose of these unit-specific conditions, are described in Conditions 7.5.1 and 7.5.2.
- b. The affected air makeup units are subject to the emission limits identified in Condition 5.3.2.

7.5.4 Non-Applicability of Regulations of Concern

- a. The affected air makeup units are not subject to NSPS, 40 CFR 60 Subpart Dc, Small Industrial-Commercial-Institutional Steam Generating Units, since the actual heat input of each unit is less than 10 mmBtu/hr.
- b. The affected air makeup units are not subject to 35 IAC 217.121, New Fuel Combustion Emission Sources, since the actual heat input of the units is less than 73.2 MW (250 mmBtu/hr).
- c. The affected air makeup units are not subject to 35 IAC 218.301, Use of Organic Material, pursuant to 35 IAC 218.303, Fuel Combustion Emission Sources, which excludes the affected air makeup units from this requirement.
- d. The affected air makeup units are not subject to 35 IAC 216.121, Fuel Combustion Emission Sources, since the actual heat input of each unit is less than 10 mmBtu/hr.

7.5.5 Control Requirements and Work Practices

Natural gas shall be the only fuel fired in the affected air makeup units.

7.5.6 Production and Emission Limitations

Emissions and operation of the air makeup units shall not exceed the following limits:

	Maximum Firing Rate (Million Btu/Hr)	Nitrogen Oxides Emissions (Lb/Hour)	(Tons/Year)
Air Make-Up Unit EP38	2.4	0.24	0.38
Air Make-Up Unit EP39	2.4	0.24	0.38

The above limitations were established in Permit 98120013, pursuant to 35 IAC Part 203. 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 35 IAC Part 203 [T1].

7.5.7 Testing Requirements

Testing requirements are not set for the affected air makeup units. However, there are source-wide testing requirements in Condition 5.7 and general testing requirements in Condition 8.5.

7.5.8 Monitoring Requirements

Monitoring requirements are not set for the affected air makeup units. However, there may be provisions for source-wide monitoring requirements set forth in Condition 5.8 of this permit.

7.5.9 Recordkeeping Requirements

In addition to the records required by Condition 5.9, the Permittee shall maintain records of the following items for the affected air makeup units to demonstrate compliance with Condition 5.5.1, pursuant to Section 39.5(7)(b) of the Act:

- a. Fuel usage (ft³/yr), and
- b. Fuel combustion emissions calculated in accordance with the procedures given in Condition 7.5.12 (ton/yr).

7.5.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected air makeup units with the permit requirements within 30 days, 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.

7.5.11 Operational Flexibility/Anticipated Operating Scenarios

Operational flexibility is not set for the affected air makeup units. However, there may be provisions for source-wide operational flexibility set forth in Condition 5.11 of this permit.

7.5.12 Compliance Procedures

- a. Compliance with Condition 7.5.3(b) is assumed to be achieved by the work practices inherent to operation of a natural gas-fired air makeup unit, thus no compliance procedures are set in this permit addressing this regulation.
- b. To determine compliance with condition 5.5.1 emissions from the affected air makeup units shall be based on the emission factors listed below:

<u>Pollutant</u>	<u>Natural Gas Emission Factors for Air Makeup Units (lb/10⁶ ft³)</u>
NO _x	100
PM	7.6
SO ₂	0.6
VOM	5.5
CO	84

These are the emission factors for uncontrolled natural gas combustion in boilers, AP-42 Section 1.4.

$$\text{Air Makeup Unit Emissions (lb)} = (\text{Natural Gas Consumed, ft}^3) \times \frac{\text{The Appropriate Emission Factor}}{10^6}$$

7.6 Vapor Degreaser

7.6.1 Description

The batch vapor degreaser is used to clean metal parts. Trichloroethylene is used as the cleaning solvent. This permit is written based on the batch vapor degreaser complying with the idling emission limit of the NESHAP.

7.6.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
SD	Batch Vapor Degreaser	1996	None

7.6.3 Applicable Provisions and Regulations

- a. The "affected vapor degreaser" for the purpose of these unit-specific conditions, is described in Conditions 7.6.1 and 7.6.2.
- b. The affected vapor degreaser is subject to the emission limits identified in Condition 5.3.2.
- c. The affected vapor degreaser is subject to 40 CFR Part 63, Subpart T - National Emission Standards for Halogenated Solvent Cleaning. The United States EPA issued this final rule on December 2, 1994. The Illinois EPA is administering this regulation in Illinois on behalf of the United States EPA under a delegation agreement.
- d. The Permittee shall comply with the following pursuant to 40 CFR 63.463:
 - i. The solvent cleaning machine shall have an idling and downtime mode cover that may be readily opened or closed, that completely covers the cleaning machine openings when in defects. The cover shall be in placeduring 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 to not be in place [40 CFR 63.463(a) (1) (i) and (d) (1) (i)].
 - ii. The cleaning machine shall have a freeboard ratio of 0.75 or greater [40 CFR 63.463(a) (2)].
 - iii. The 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. The 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. The 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)].
- vii. The solvent cleaning machine shall achieve and maintain an idling emission limit of 0.22 kilograms per hour per square meter (0.045 pounds per hour per square foot) of solvent/air interface area as determined using the procedures in 40 CFR 63.465 (a) and appendix A of 40 CFR part 63 [40 CFR 63.463 (b)(2)(ii)].
- viii. The Permittee shall 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. The Permittee shall also ensure that the idling-mode cover is maintained free of cracks, holes, and other defects [40 CFR 63.463 (e)(2)(iv)(A) and (B)].
- e. Upon discontinuing the use of halogenated HAP solvents as defined in 40 CFR 63.460(a) and 40 CFR 63.461, the affected vapor degreaser would no longer be subject to 40 CFR 63 Subpart T.
- f. The batch vapor degreaser is subject to 35 IAC 218.183 which provides that:
 - i. The degreaser shall be equipped with a cover designed to open and close easily without disturbing the vapor zone [35 IAC 218.183 (b)(1)].
 - ii. The degreaser shall be equipped with the following switches [35 IAC 218.183 (b)(2)]:
 - A. One which shuts off the sump heat if the amount of condenser coolant is not sufficient to maintain the designed vapor level; and
 - B. One which shuts off the spray pump if the vapor level drops more than 10 cm (4 in) below the bottom condenser coil; and

- C. One which shuts off the sump heat source when the vapor level exceeds the design level.
- iii. A permanent conspicuous label summarizing the operating procedure shall be affixed to the degreaser [35 IAC 218.183 (b) (3)].
- iv. The degreaser shall be equipped with one of the following devices [35 IAC 218.183 (b) (4)]:
 - 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 and further processed consistent with Section 218.108 of this Part. Such equipment or system may include a refrigerated chiller, an enclosed design or a carbon adsorption system.

7.6.4 Non-Applicability of Regulations of Concern

Open top vapor degreasers using trichloroethylene as a cleaning solvent are not subject to 35 IAC 218.301 as no odor nuisance exists and trichloroethylene is considered as a photochemically non-reactive material.

7.6.5 Control Requirements and Work Practices

The Permittee shall meet all of the following required work and operational practices specified below:

- a. Cover(s) to the 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)].
- b. 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 basket 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)].
- c. 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)].

- d. 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 [40 CFR 63.463 (d) (4)].
- e. Parts basket or parts shall not be removed from the solvent cleaning machine until dripping has stopped [40 CFR 63.463 (d) (5)].
- f. During startup of the vapor cleaning machine, the primary condenser shall be turned on before the sump heater [40 CFR 63.463 (d) (6)].
- g. During shutdown of the 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)].
- h. When solvent is added or drained from the 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)].
- i. The Permittee shall complete and pass the applicable sections of the test of solvent cleaning operating procedures as provided in 40 CFR 63 appendix B, if requested during an inspection by the Illinois EPA [40 CFR 63.463 (d) (10)].
- j. 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)].
- k. Sponges, fabric, wood, and paper products shall not be cleaned [40 CFR 63.463 (d) (12)].
- l. The Permittee shall not operate the open top vapor degreaser unless the cover of the degreaser is closed when workloads are not being processed through the degreaser [35 IAC 218.183 (a) (1)].
- m. The Permittee shall not operate the open top vapor degreaser unless the solvent carry out emissions are minimized by [35 IAC 218.183 (a) (2)]:
 - i. Racking parts to allow complete drainage;
 - ii. Moving Parts in and out of the degreaser at less than 3.3 meters per minute (11 feet per minute);
 - iii. Holding the parts in the vapor zone until condensation ceases;

- iv. Tipping out any pools of solvent on the cleaned parts before removal from the vapor zone; and
- v. Allowing parts to dry within the degreaser until visually dry.
- n. Porous or absorbent materials, such as cloth, leather, wood or rope shall not be degreased [35 IAC 218.183 (a) (3)].
- o. The Permittee shall not operate the open top vapor degreaser unless half of the degreaser's open top area is occupied with a workload [35 IAC 218.183 (a) (4)].
- p. The degreaser shall not be loaded to the point where the vapor level would drop more than 10 centimeter (4 inches) when the workload is removed from the vapor zone [35 IAC 218.183 (a) (5)].
- q. The Permittee shall not operate the open top vapor degreaser unless spraying is done below the vapor level only [35 IAC 218.183 (a) (6)].
- r. The Permittee shall not operate the open top vapor degreaser unless solvents leaks are repaired immediately [35 IAC 218.183 (a) (7)].
- s. Waste solvent shall be stored in covered containers only and not disposed of in such a manner that more than 20 percent of the waste solvent (by weight) is allowed to evaporate into the atmosphere [35 IAC 218.183 (a) (8)].
- t. Water shall not be visually detectable in solvent exiting from the water separator [35 IAC 218.183 (a) (9)].
- u. Exhaust ventilation exceeding 20 cubic meters per minute per square meter (65 cubic feet per minute per square foot) of degreaser area shall not be used, unless necessary to meet the requirements of the Occupational Safety and Health Act (29 U.S.C. Section 651 et seq.) [35 IAC 218.183 (a) (10)].

7.6.6 Production and Emission Limitations

In addition to Condition 5.3.2 and the source-wide emission limitations in Condition 5.6, the affected vapor degreaser is subject to the following:

<u>Solvent Usage</u>		<u>Organic Material Emissions</u>	
<u>(lb/mo)</u>	<u>(ton/yr)</u>	<u>(lb/mo)</u>	<u>(ton/yr)</u>
1,217	7.2	1,217	7.2

These limits are based on maximum solvent usage, operating hours and determined by material balance. 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. This limitation originates from Construction Permit 95120263. [T1]

7.6.7 Testing Requirements

The Permittee shall perform all applicable testing for the affected vapor degreaser as specified by 40 CFR 63.463 and 40 CFR 63.465.

7.6.8 Monitoring Requirements

The Permittee shall perform the following monitoring procedures according to 40 CFR 63.466.

- a. The Permittee shall monitor the hoist speed. The hoist speed shall be determined 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)].
 - i. The monitoring of the hoist speed shall be conducted monthly. If after the first year, no exceedances of the hoist speed are measured, the Permittee may begin monitoring the hoist speed quarterly [40 CFR 63.466 (c) (2)].
 - ii. 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)].
 - iii. If the Permittee can demonstrate to the Administrator's satisfaction in the initial compliance report that the hoist cannot exceed a speed of 3.4 meters per minute (11 feet per minute), the required monitoring frequency is quarterly, including during the first year of compliance [40 CFR 63.466 (c) (4)].

7.6.9 Recordkeeping Requirements

In addition to the records required by Condition 5.9, the Permittee shall maintain records of the following items for the affected vapor degreaser to demonstrate compliance with the Conditions of this permit, pursuant to Section 39.5(7)(b) of the Act:

- a. The Permittee shall maintain the following records in written or electronic form for the lifetime of the 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. The Permittee shall maintain records of the performance test for idling emissions, 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 the solvent cleaning machine [40 CFR 63.467 (a) (5)].
- b. The Permittee shall maintain the following records in written or electronic form for a period of 5 years:
- i. Information on the action taken to comply with idling mode cover and operating the solvent cleaning machine within parameters identified in the performance test for idling emissions. 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)].
 - ii. Estimates of annual solvent consumption for the solvent cleaning machine [40 CFR 63.467 (b) (3)].
- c. The Permittee shall maintain the following records:
- i. Monthly and annual solvent usage in pounds or tons.
 - ii. Type of solvent used.
 - iii. Amount of solvent reclaimed for reuse or sent offsite for disposal.

7.6.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Unit of deviations of the batch vapor degreaser 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. The Permittee shall submit an exceedance report for the batch vapor degreaser 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 submit an exceedance report quarterly until a request to reporting frequency under 40 CFR 63.468 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 information [40 CFR 63.468 (h)]:
 - i. The records required by Condition 7.6.9 (b) (i).
 - ii. If an exceedance has occurred, the reason for the exceedance and a description of the actions taken, to minimize or prevent future exceedances.
 - iii. 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.

- b. The Permittee shall submit an annual report for the batch vapor degreaser by February 1 of the year following the one for which the reporting is being required pursuant to 40 CFR 63.468 (f). The report shall include the following:
 - i. A signed statement from the Permittee 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 by 40 CFR 63.463 (d) (10)."
 - ii. An estimate of solvent consumption for each solvent cleaning machine during the reporting period.

7.6.11 Operational Flexibility/Anticipated Operating Scenarios

Operational flexibility is not set for the affected vapor degreaser. However, there may be provisions for source-wide operational flexibility set forth in Condition 5.11 of this permit.

7.6.12 Compliance Procedures

Compliance with emission limits for the affected vapor degreaser shall be calculated using the following equation:

$$\text{VOM Emissions} = \text{Trichloroethylene Usage}$$

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 September 1, 2005 (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].

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 if applicable test methods are not specified by the applicable regulations or otherwise identified in the conditions of this permit. 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 Conditions 8.6.3 and 8.6.4.

8.6 Reporting Requirements

8.6.1 Monitoring Reports

Reports summarizing required monitoring as specified in the conditions of this permit shall be submitted to the Illinois EPA every six months as follows, unless more frequent submittal of such reports is required in Sections 5 or 7 of this permit [Section 39.5(7)(f) of the Act]:

- 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. Unless otherwise specified in the particular provision of this permit or in the written instructions distributed by the Illinois EPA for particular reports, reports and notifications shall be sent to the Illinois EPA - Air Compliance Unit with a copy sent to the Illinois EPA - Air Regional Field Office.
- b. As of the date of issuance of this permit, the addresses of the offices that should generally be utilized for the submittal of reports and notifications are as follows:
 - i. Illinois EPA - Air Compliance Unit

Illinois Environmental Protection Agency
Bureau of Air
Compliance & Enforcement Section (MC 40)
P.O. Box 19276
Springfield, Illinois 62794-9276
 - ii. Illinois EPA - Air Quality Planning Section

Illinois Environmental Protection Agency
Bureau of Air
Air Quality Planning Section (MC 39)
P.O. Box 19276
Springfield, Illinois 62794-9276
 - iii. Illinois EPA - Air Regional Field Office

Illinois Environmental Protection Agency
Division of Air Pollution Control
9511 West Harrison
Des Plaines, Illinois 60016

iv. USEPA Region 5 - Air Branch

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

- c. Permit applications should be addressed to the Air Permit Section. As of the date of issuance of this permit, the address of the Air Permit Section is as follows:

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

8.7 Title I Conditions

Notwithstanding the expiration date on the first page of this CAAPP permit, Title I conditions in this permit, which are identified by a T1, T1N, or T1R designation, remain in effect until such time as the Illinois EPA takes action to revise or terminate them in accordance with applicable procedures for action on Title I conditions. This is because these conditions either: (a) incorporate conditions of earlier permits that were issued by the Illinois EPA pursuant to authority that includes authority found in Title I of the CAA (T1 conditions), (b) were newly established in this CAAPP permit pursuant to authority that includes such Title I authority (T1N conditions), or (c) reflect a revision or combination of conditions established in this CAAPP permit (T1R conditions). (See also Condition 1.5.)

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.

9.1.2 In particular, this permit does not alter or affect the following [Section 39.5(7)(j)(iv) of the Act]:

- 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, pursuant to Section 39.5(7)(j) and (p) of the Act, 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, or 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 this permit provides for such continued operation consistent with the Act and applicable Illinois Pollution Control Board regulations [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 there under.

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 as may be required by law and in accordance with constitutional limitations, the Permittee shall allow the Illinois EPA, or an authorized representative to perform the following [Sections 4 and 39.5(7)(a) and (p)(ii) of the Act]:

- 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 applicable requirements; 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 regulated 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. At 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 including any logs, plans, procedures, or instructions required to be kept 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, Air Quality Planning 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 Unit, 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 and applicable regulations [Section 39.5(7) (p) (i) of the Act]. An example Certification by a Responsible Official is included as Attachment 1 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 [Section 39.5(7) (k) of the Act]:

- 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.

Note: For this purpose, emergency means a situation arising from sudden and reasonably unforeseeable events beyond the control of the source, as further defined by Section 39.5(7) (k) (iv) of the Act.

- 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 [Section 39.5(7)(k)(iv) of the Act].

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, revoked, reopened and reissued, or terminated for cause in accordance with applicable provisions of Section 39.5 of the Act. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, 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 that inaccurate statement were made in establishing the emission standards or limitations, or other terms or conditions of this permit.
- d. The Illinois EPA or USEPA determines that this permit must be revised or revoked to ensure compliance with the applicable requirements.

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 and reissuance under Section 39.5(15) of the Act, pursuant to Sections 39.5(5) (e) and (i) 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. In the event of a challenge to any portion of the permit, other portions of the permit may continue to be in effect. Should any portion of this permit be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected and 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

Upon the expiration of this permit, if the source is operated, it shall be deemed to be operating without a permit unless a timely and complete CAAPP application has been submitted for renewal of this permit. However, if a timely and complete application to renew this CAAPP permit has been submitted, the terms and all conditions of this CAAPP permit will remain in effect until the issuance of a renewal permit [Section 39.5(5) (1) and (o) of the Act].

Note: Pursuant to Sections 39.5(5) (h) and (n) of the Act, upon submittal of a timely and complete renewal application, the permitted source may continue to operate until final action is taken by the Illinois EPA on the renewal application, provided, however, that this protection shall cease if the applicant fails to submit any additional information necessary to evaluate or take final action on the renewal application as requested by the Illinois EPA in writing. For a renewal application to be timely, it must be submitted no later than 9 months prior to the date of permit expiration.

9.15 General Authority for the Terms and Conditions of this Permit

The authority for terms and conditions of this permit that do not include a citation for their authority is Section 39.5(7)(a) of the Act, which provides that the Illinois EPA shall include such provisions in a CAAPP permit as are necessary to accomplish the purposes of the Act and to assure compliance with all applicable requirements. Section 39.5(7)(a) of the Act is also another basis of authority for terms and conditions of this permit that do include a specific citation for their authority.

Note: This condition is included in this permit pursuant to Section 39.5(7)(n) of the Act.

10.0 ATTACHMENTS

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: _____

Attachment 2 Emissions of Particulate Matter from Process Emission Units

- a. New Process Emission Units for Which Construction or Modification Commenced On or After April 14, 1972 [35 IAC 212.321].
- i. 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 35 IAC 212.321 [35 IAC 212.321(a)].
- ii. Interpolated and extrapolated values of the data in subsection (c) of 35 IAC 212.321 shall be determined by using the equation [35 IAC 212.321(b)]:

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

Where:

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

A. Up to process weight rates of 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lb/hr
A	1.214	2.54
B	0.534	0.534

B. For process weight rate greater than or equal to 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lb/hr
A	11.42	24.8
B	0.16	0.16

iii. Limits for Process Emission Units For Which Construction or Modification Commenced On or After April 19, 1972 [35 IAC 212.321(c)]:

Metric P <u>Mg/hr</u>	E <u>kg/hr</u>	English P <u>T/hr</u>	E <u>lb/hr</u>
0.05	0.25	0.05	0.55
0.1	0.29	0.10	0.77
0.2	0.42	0.2	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
9.0	3.9	10.00	8.70
13.0	4.8	15.00	10.80
18.0	5.7	20.00	12.50
23.0	6.5	25.00	14.00
27.0	7.1	30.00	15.60
32.0	7.7	35.00	17.00
36.0	8.2	40.00	18.20
41.0	8.8	45.00	19.20
45.0	9.3	50.00	20.50
90.0	13.4	100.00	29.50
140.0	17.0	150.00	37.00
180.0	19.4	200.00	43.00
230.0	22.0	250.00	48.50
270.0	24.0	300.00	53.00
320.0	26.0	350.00	58.00
360.0	28.0	400.00	62.00
408.0	30.1	450.00	66.00
454.0	30.4	500.00	67.00

b. Existing Process Emission Units for Which Construction or Modification Prior to April 14, 1972 [35 IAC 212.322].

- i. No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced prior to April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission units at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.322 [35 IAC 212.322(a)].
- ii. Interpolated and extrapolated values of the data in subsection (c) of 35 IAC 212.321 shall be determined by using the equation [35 IAC 212.322(b)]:

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

Where:

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

A. Up to process weight rates up to 27.2 Mg/hr (30 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lb/hr
A	1.985	4.10
B	0.67	0.67
C	0	0

B. For process weight rate in excess of 27.2 Mg/hr (30 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lb/hr
A	25.21	55.0
B	0.11	0.11
C	- 18.4	- 40.0

iii. Limits for Process Emission Units For Which Construction or Modification Commenced Prior to April 14, 1972 [35 IAC 212.322(c)]:

Metric P <u>Mg/hr</u>	E <u>kg/hr</u>	English P <u>T/hr</u>	E <u>lb/hr</u>
0.05	0.27	0.05	0.55
0.1	0.42	0.10	0.87
0.2	0.68	0.2	1.40
0.3	0.89	0.30	1.83
0.4	1.07	0.40	2.22
0.5	1.25	0.50	2.58
0.7	1.56	0.75	3.38
0.9	1.85	1.00	4.10
1.8	2.9	2.00	6.52
2.7	3.9	3.00	8.56
3.6	4.7	4.00	10.40
4.5	5.4	5.00	12.00
9.0	8.7	10.00	19.20
13.0	11.1	15.00	25.20
18.0	13.8	20.00	30.50
23.0	16.2	25.00	35.40
27.2	18.15	30.00	40.00
32.0	18.8	35.00	41.30
36.0	19.3	40.00	42.50
41.0	19.8	45.00	43.60
45.0	20.2	50.00	44.60
90.0	23.2	100.00	51.20
140.0	25.3	150.00	55.40
180.0	26.5	200.00	58.60
230.0	27.7	250.00	61.00
270.0	28.5	300.00	63.10
320.0	29.4	350.00	64.90
360.0	30.0	400.00	66.20
400.0	30.6	450.00	67.70
454.0	31.3	500.00	69.00

Attachment 3 Guidance

The Illinois has prepared guidance for sources on the Clean Air Act Permit Program (CAAPP) that is available on the Internet site maintained by the Illinois EPA, www.epa.state.il.us. This guidance includes instructions on applying for a revision or renewal of the CAAPP permit.

Guidance On Revising A CAAPP Permit:

www.epa.state.il.us/air/caapp/caapp-revising.pdf

Guidance On Renewing A CAAPP Permit:

www.epa.state.il.us/air/caapp/caapp-renewing.pdf

The application forms prepared by the Illinois EPA for the CAAPP are also available from the Illinois EPA's Internet site:

www.epa.state.il.us/air/caapp/index.html

These CAAPP application forms should also be used by a CAAPP source when it applies for a construction permit. For this purpose, the appropriate CAAPP application forms and other supporting information, should be accompanied by a completed Application For A Construction Permit form (199-CAAPP) and Fee Determination for Construction Permit Application form (197-FEE):

www.epa.state.il.us/air/caapp/199-caapp.pdf

www.epa.state.il.us/air/permits/197-fee.pdf

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