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1.0 SOURCE IDENTIFICATION

1.1 Source

Flex-N-Gate Corporation  
1306 East University Avenue  
Urbana, Illinois 61802  
217/278-2600

I.D. No.: 019105ADW

Standard Industrial Classification: 3714, Motor Vehicle Parts and  
Accessories

1.2 Owner/Parent Company

Flex-N-Gate Corporation  
1306 East University Avenue  
Urbana, Illinois 61802

1.3 Operator

Flex-N-Gate Manufacturing  
1306 East University Avenue  
Urbana, Illinois 61802

and

Guardian West  
601 Guardian Drive  
Urbana, Illinois 61801

Jackie Christensen, Environmental Manager  
217/278-2435

1.4 General Source Description

Flex-N-Gate Corporation owns two facilities in Urbana, Illinois. One is located at 601 Guardian Drive (Guardian West) and one is located at 1306 East University Avenue (Flex-N-Gate Manufacturing). Guardian West stamps and polishes steel blanks, applies coatings, electroplates, assembles and ships automotive bumpers. Flex-N-Gate blanks and forms running boards, tubes, brackets, bumpers and draw bars, applies powder and waterborne coatings, assembles and ships product. The 601 Guardian Drive facility and the 1306 East University Avenue facility are considered one source for purposes of this permit.

2.0 LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT

Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
Btu	British thermal unit
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CAM	Compliance Assurance Monitoring
CFR	Code of Federal Regulations
CMP	Composite Mesh Pad
ERMS	Emissions Reduction Market System (35 IAC Part 205)
Gal	Gallon
HAP	Hazardous Air Pollutant
Hr	Hour
IAC	Illinois Administrative Code
I.D. No.	Identification Number of Source, assigned by Illinois EPA
ILCS	Illinois Compiled Statutes
Illinois EPA	Illinois Environmental Protection Agency
KW	Kilowatts
L	Liters
Lb	Pound
mmBtu	Million British thermal units
Mg	megagram or metric ton
MW	Megawatts
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standards
PM	Particulate Matter
PM <sub>10</sub>	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
ppm	parts per million
PSD	Prevention of Significant Deterioration (40 CFR 52.21)
RMP	Risk Management Plan
SO <sub>2</sub>	Sulfur Dioxide
T	ton (2000 pounds)
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 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:

- Welding Operations
- Autopolishers
- Blank Washer Line
- Laser Cutting
- Saw Cutting
- Packaging Paint Operation
- 5-Stage Cleaning Operation for Powder Coat Line
- Curing Oven #1 and #2 for Powder Coat Line
- Burn-off Oven with Afterburner
- Fabrication Area Air Make Up Heater
- Packaging Area Air Make Up Heater
- Diesel Storage Tank
- Spray Rite System

- 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:

- H<sub>2</sub>SO<sub>4</sub> Bulk Storage Tank
- Packaging Cleaning Operation

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

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

Storage tanks of organic liquids with a capacity of less than 10,000 gallons and an annual throughput of less than 100,000 gallons per year, provided the storage tank is not used for the storage of gasoline

or any material listed as a HAP pursuant to Section 112(b) of the CAA [35 IAC 201.210(a)(10)].

Die casting machines where a metal or plastic is formed under pressure in a die [35 IAC 201.210(a)(12)].

Gas turbines and stationary reciprocating internal combustion engines of between 112 kW and 1,118 kW (150 and 1,500 horsepower) power output that are emergency or standby units [35 IAC 201.210(a)(16)].

Storage tanks of any size containing exclusively soaps, detergents, surfactants, glycerin, waxes, vegetable oils, greases, animal fats, sweeteners, corn syrup, aqueous salt solutions, or aqueous caustic solutions, provided an organic solvent has not been mixed with such materials [35 IAC 201.210(a)(17)].

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

### 3.2 Compliance with Applicable Requirements

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

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

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

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

### 3.3 Addition of Insignificant Activities

- 3.3.1 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type that is identified in Condition 3.1, until the renewal application for this permit is submitted, pursuant to 35 IAC 201.212(a).
- 3.3.2 The Permittee must notify the Illinois EPA of any proposed addition of a new insignificant activity of a type addressed by 35 IAC 201.210(a) and 201.211 other than those identified in Condition 3.1, pursuant to Section 39.5(12)(b) of the Act.
- 3.3.3 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type identified in 35 IAC 201.210(b).

4.0 Significant Emission Units at This Source

Emission Unit	Description	Date Constructed	Emission Control Equipment
P-1-1	E-Coat Prime Dip Coat Process	1999	None
P-1-2	E-Coat Oven for P-1-1	1999	None
P-1-3	Two Electrostatic Anti-Chip Coat Booths	1999	Dry Filters (EFP-1, EFP-2)
P-1-4	Anti-Chip Oven for P-1-3	1999	Catalytic Oxidizer
P-1-5	Two Basecoat Electrostatic Spray Application Booths	1999	Dry Filters (EFP-3, EFP-4)
P-1-6	Two Clearcoat Electrostatic Spray Application Booths	1999	Dry Filters (EFP-5, EFP-6)
P-1-7	Topcoat Oven for P-1-6	1999	Catalytic Oxidizer
PC-1	One Undercoat Electrostatic Spray Booth with Pre-Heat and Post-heat Oven	1999	Dry Filters
C-1	Decorative Chrome Plating Line and Ancillary Operations	1999	Scrubbers, CMP Filters, Wetting Agent
Tank	8,500 Gallon Hydrochloric Acid Bulk Storage Tank	1999	Scrubber
B-1	12.5 mmBtu/hr Natural Gas-Fired Boilers	1999	None
B-2	12.5 mmBtu/hr Natural Gas-Fired Boilers	1999	None
Wastewater Treatment Process	Wastewater Pretreatment Units, Filter Press, Sludge Dryer, On-site Storage Roll-off	1999	Scrubber
Coating Line	Powder Coat Line	1973	Filters
Coating Line	Undercoat Line and Dryer	1990	Dry Filters

## 5.0 OVERALL SOURCE CONDITIONS

### 5.1 Source Description

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

### 5.2 Applicable Regulations

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

- 5.2.2 In addition, emission units at this source are subject to the following regulations of general applicability:

- a. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.

Compliance with this requirement is considered to be assured by the inherent nature of operations at this source, as demonstrated by historical operation.

- b. No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, pursuant to 35 IAC 212.123(a), except as allowed by 35 IAC 212.123(b) and 212.124.

#### 5.2.3 Ozone Depleting Substances

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

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

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

#### 5.2.4 Risk Management Plan

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

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

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

#### 5.2.6 Episode Action Plan

- a. If the source is required to have an episode action plan pursuant to 35 IAC 244.142, the Permittee shall maintain at the source and have on file with the Illinois EPA a written episode action plan (plan) for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The plan shall contain the information specified in 35 IAC 244.144.

- b. The Permittee shall immediately implement the appropriate steps described in this plan should an air pollution alert or emergency be declared.
- c. If a change occurs at the source which requires a revision of the plan (e.g., operational change, change in the source contact person), a copy of the revised plan shall be submitted to the Illinois EPA for review within 30 days of the change. Such plans shall be further revised if disapproved by the Illinois EPA.
- d. For sources required to have a plan pursuant to 35 IAC 244.142, a copy of the original plan and any subsequent revisions shall be sent to:
  - i. Illinois EPA, Compliance Section; and
  - ii. For sources located in Cook County and outside of the city of Chicago: Cook County Department of Environmental Control; or
  - iii. For sources located within the city of Chicago: Chicago Department of Environmental Control.

### 5.3 Non-Applicability of Regulations of Concern

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

### 5.4 Source-Wide Operational and Production Limits and Work Practices

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

The total rated fuel input capacity of equipment, including boilers, ovens, catalytic oxidizer, space heaters and other incidental fuel combustion equipment at Guardian West located at 601 Guardian Drive, shall not exceed 60 mmBtu/hour.

## 5.5 Source-Wide Emission Limitations

### 5.5.1 Permitted Emissions for Fees

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

#### Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	132.03
Sulfur Dioxide (SO <sub>2</sub> )	0.09
Particulate Matter (PM)	23.49
Nitrogen Oxides (NO <sub>x</sub> )	16.74
HAP, not included in VOM or PM	0.00
Total	172.35

### 5.5.2 Emissions of Hazardous Air Pollutants

This permit is issued based on the emissions of HAPs as listed in Section 112(b) of the CAA not being equal to or exceeding 10 tons per year of a single HAP or 25 tons per year of any combination of such HAPs, so that this source is considered a minor source for HAPs.

### 5.5.3 Other Source-Wide Emission Limitations

The annual emissions from the Guardian West facility located at 601 Guardian Drive shall not exceed the following limitations:

Pollutant	Emissions (Tons/Year)	Underlying Rules
NO <sub>x</sub>	45.0	40 CFR 52.21
CO	35.0	40 CFR 52.21

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

The limits on NO<sub>x</sub> and CO are limitations established in Permit 98100041, pursuant to 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits ensure that the construction and/or modification addressed in the

aforementioned Permit does not constitute a new major source or major modification pursuant to Title I of the CAA, specifically the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21 [T1].

## 5.6 General Recordkeeping Requirements

### 5.6.1 Emission Records

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

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

### 5.6.2 General Records for Combustion Equipment

The Permittee shall maintain a file documenting the maximum rated fuel input capacity of all combustion equipment at the source.

### 5.6.3 Records for HAP Emissions

Records of HAP emissions for the emission units are covered by Section 7 (Unit Specific Conditions) of this permit.

### 5.6.4 Retention and Availability of Records

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

## 5.7 General Reporting Requirements

### 5.7.1 General Source-Wide Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section of deviations of the source with the permit requirements as follows, pursuant to Section

39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

5.7.2 Annual Emissions Report

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

5.7.3 Annual Reporting of HAP Emissions

The Permittee shall submit an annual report to the Illinois EPA, Compliance Section, on HAP emissions from the source, including the following information, so as to demonstrate whether the source is being operated as a non-major source of HAP emissions. This report shall be submitted with the Annual Emissions Report (Condition 9.7).

- a. The annual emissions of individual HAPs for each month of the previous calendar year sufficient to demonstrate compliance with the 12 month running total of Condition 5.5.2, tons/year (e.g., for the month of January, the emissions from February of the preceding calendar year through January; for the month of February, the emissions from March of the preceding calendar year through February; 12 months in all); and
- b. The total emissions of all HAPs combined for each month of the previous calendar year sufficient to demonstrate compliance with the 12 month running total of Condition 5.5.2, tons/year (e.g., for the month of January, the emissions from February of the preceding calendar year through January; for the month of February, the emissions from March of the preceding calendar year through February; 12 months in all).

5.8 General Operational Flexibility/Anticipated Operating Scenarios

N/A

5.9 General Compliance Procedures

5.9.1 General Procedures for Calculating Emissions

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

6.0 [NOT APPLICABLE TO THIS PERMIT]

7.0 UNIT SPECIFIC CONDITIONS

7.1 Unit: Guardian West Bumper Coating Operations  
Control: Filters, Catalytic Oxidizer

7.1.1 Description

Guardian West applies automotive coatings to steel bumpers. Process operations include mixing and thinning paints, spray or dip application, curing, finessing, cleaning and rework of bumper and products. Auxiliary operations include the general cleaning of robots, spray equipment, tanks, and spray booths.

7.1.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
P-1-1	E-Coat Prime Dip Coat Process	None
P-1-2	E-Coat Oven for P-1-1	None
P-1-3	Two Electrostatic Anti-Chip Coat Booths	Dry Filters (EFP-1, EFP-2)
P-1-4	Anti-Chip Oven for P-1-3	Catalytic Oxidizer
P-1-5	Two Basecoat Electrostatic Spray Application Booths	Dry Filters (EFP-3, EFP-4)
P-1-6	Two Clearcoat Electrostatic Spray Application Booths	Dry Filters (EFP-5, EFP-6)
P-1-7	Topcoat Oven for P-1-6	Catalytic Oxidizer
PC-1	One Undercoat Electrostatic Spray Booth with Pre-Heat and Post-heat Oven	Dry Filters (EFC-2)

7.1.3 Applicability Provisions and Applicable Regulations

- a. The "affected coating line" for the purpose of these unit-specific conditions, is each coating line as described in Conditions 7.1.1 and 7.1.2.
  - i. The "affected prime coating line" for the purpose of these unit-specific conditions, is the e-coat prime dip coat process (P-1-1) with e-coat oven (P-1-2).
  - ii. The "affected anti-chip coating line" for the purpose of these unit-specific conditions, is the two electrostatic anti-chip coat booths (P-1-3) with anti-chip oven (P-1-4).
  - iii. The "affected topcoat coating line" for the purpose of these unit-specific conditions, is

the two basecoat electrostatic spray application booths (P-1-5) and the two clearcoat electrostatic spray application booths (P-1-6) with topcoat oven (P-1-7).

- iv. The "affected undercoat coating line" for the purpose of these unit-specific conditions, is the one undercoat electrostatic spray booth with pre-heat and post-heat oven (PC-1).
- b. Each affected coating line is subject to the emission limits identified in Condition 5.2.2.
- c. The affected coating lines are subject to 35 IAC 212.321(a), which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit 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 (see also Attachment 1) [35 IAC 212.321(a)].

- d. The affected prime coating line is subject to 35 IAC Part 215, Subpart F: Coating Operations. Pursuant to 35 IAC 215.204(j)(3), the Permittee shall not cause or allow the emission of VOM to exceed 3.5 lb/gal, excluding water and any compounds which are specifically exempted from the definition of volatile organic material. The applicability of this rule is based on these lines conducting "miscellaneous metal parts product coating" with "extreme performance coating," as these terms are defined in 35 IAC Part 211.
- e. i. The undercoat, anti-chip, and topcoat lines shall comply with the VOM standards of 35 IAC Part 215, Subpart F, as follows, as further set forth below:
  - A. Option 1: Use of complying coatings, as addressed by 35 IAC 215.204(j); or
  - B. Option 2: Demonstration of daily compliance without reliance on a VOM control device, as addressed by 35 IAC 215.204(j); or

C. Option 3: Demonstration of daily compliance with reliance on a VOM control device, as addressed by 35 IAC 215.205(c).

ii. If the Permittee is complying by Option 1, the Permittee must show that coatings other than clear coatings comply with a limit of 3.5 lb VOM/gallon\* as applied and clear coatings comply with a limit of 4.3 lb VOM/gallon\* as applied.

iii. If the Permittee is complying by means of Option 2, the Permittee must show that the weighted average VOM content of coatings applied on a day complies with a limit of 3.5 lb VOM/gallon\* as applied. This demonstration shall be made using "solids basis" methodology, as set forth in 35 IAC 218.205(c) (See also Condition 7.1.12(d)(i)).

iv. If the Permittee is complying by means of Option 3, the Permittee must show that the equivalent emission rate on a day considering the effect of the control device complies with a limit of 3.5 lb VOM/gallon\* as applied. This demonstration shall be made using "solids basis" methodology, as set forth in 35 IAC 218.207(h) (See also Condition 7.1.12(d)(ii)).

\* The volume of coating is determined excluding water and any compounds which are specifically exempted from the definition of VOM.

#### 7.1.4 Non-Applicability of Regulations of Concern

- a. Pursuant to 35 IAC 215.209, coating operations at the plant are not subject to 35 IAC 215.301, Use of Organic Material.
- b. This permit is issued based on the affected coating lines not being subject to the New Source Performance Standards (NSPS) for Automobile and Light Duty Truck Surface Coating Operations, 40 CFR Part 60, Subpart MM, because the affected coating lines are not located at an automobile or light-duty truck assembly plant.
- c. Coating used exclusively for chemical or physical analysis or determination of product quality and commercial acceptance are not limited under Subpart F of Part 215 only if:

i. The coating operation is not an integral part of the production process.

ii. The emissions from the operations do not exceed 800 lb in any calendar month.

Issuance of this permit grants approval by the Illinois EPA pursuant to 35 IAC 215.206(a) (3) (c).

#### 7.1.5 Control Requirements

- a. Notwithstanding Condition 7.1.3(e), pursuant to 35 IAC 215.106, if the topcoat oven (P-1-7) or the anti-chip oven (P-1-4) is equipped with a natural gas fired catalytic oxidizer, the catalytic oxidizer need not be operated to comply with 35 IAC Part 215 between November 1 of any year to April 1 of the following year (the cool season) if the catalytic oxidizer need not otherwise be operated for purposes of occupational safety or health or control of toxic substances, odors, or other regulated pollutants.
- b. For purposes of determining compliance with 35 IAC Part 215, Subpart F, during the cool season, the Permittee may still take credit for operation of the catalytic oxidizer during any period when the Permittee does not operate the catalytic oxidizer or operates in a manner that does not satisfy Condition 7.1.5(e) (iii).
- c. For purposes of determining emissions of and compliance with annual limitations for VOM, the Permittee shall not take credit for the operation of the catalytic oxidizer during any periods in the cool season when the Permittee does not operate the catalytic oxidizer or operates it in a manner that does not satisfy Condition 7.1.5(e) (iii).
- d. If the Permittee operates the catalytic oxidizer in a manner that does not satisfy Condition 7.1.5(e) (iii), during the cool season or at other times, the Permittee shall operate the catalytic oxidizer so that it does not cause or contribute to an odor nuisance.
- e. i. The catalytic oxidizer shall be operated to achieve at least 95 percent destruction of VOM entering the device.
- ii. The Permittee shall follow good operating practices for the catalytic oxidizer, including conducting periodic inspections and performing routine maintenance and necessary repairs on a timely basis.

- iii. A. The Permittee shall operate the catalytic oxidizer in accordance with written operating procedures, which it shall maintain and update as necessary.
- B. These procedures shall provide that if operation of the catalytic oxidizer is required for compliance with 35 IAC 215, Subpart F, the Permittee shall heat the catalytic oxidizer to the established preheat temperature before coated product enters the topcoat oven or anti-chip coat oven and shall maintain this temperature or such higher established operating temperature while the line is in operation and coated product is being cured in the oven(s).
- C. The established preheat temperature and established operating temperature shall be the temperatures recommended by the catalytic oxidizer manufacturer until the Permittee sets new established temperatures in its catalytic oxidizer operating procedures, based on the demonstrated performance of the catalytic oxidizer and accompanied by supporting documentation and evaluation.

7.1.6 Emission Limitations

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

- a. Emissions from the affected coating lines, including associated process operations and auxiliary operations as defined in Condition 7.1.1, shall not exceed the following limits:

<u>Pollutant</u>	<u>(Ton/Year)</u>
VOM	125.0

Compliance with annual limits shall be determined on a weekly basis from the sum of the data for the current week plus the preceding 51 weeks (running 52 week total) [T1].

The above limitations were established in Permit 98100041, pursuant to 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits ensure that the construction and/or modification addressed

in the aforementioned permit does not constitute a new major source or major modification pursuant to Title I of the CAA, specifically the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21 [T1].

- b. Annual emissions of HAPs from the affected coating lines shall not exceed 9.5 tons of any HAP and 24.0 tons of any combination of HAPs.

#### 7.1.7 Testing Requirements

- a. Upon reasonable request by the Illinois EPA, the VOM content of specific coating materials and cleaning solvents used on the affected coating lines shall be determined according to USEPA Reference Methods 24 of 40 CFR 60 Appendix A, pursuant to 35 IAC 215.208.
  - i. The VOM content of representative coatings as supplied and as applied on the coating line shall be determined.
  - ii. Determinations of VOM content as supplied may be performed by the supplier of a material provided that the supplier provides appropriate documentation for such analysis to the Permittee.
  - iii. Determinations for VOM content as applied may rely on data from the supplier provided that the Permittee's records pursuant to Conditions 7.1.9(a)(ii), (iii) and (iv) directly reflect the application of such material and separately account for any additions of solvent.
- b.
  - i. Upon reasonable request by the Illinois EPA, the Permittee shall have the control efficiency of the catalytic oxidizer tested by a qualified independent testing service using USEPA Reference Method 18, 25 or 25A, as appropriate.
  - ii. If the Permittee relies on an overall VOM control efficiency greater than 30 percent from the catalytic oxidizer for the topcoat oven (P-1-7), the Permittee shall have the "booth/oven split" tested by qualified personnel using the appropriate methods from the USEPA's "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations."

- c. The following procedural requirements shall apply to such testing:
  - i. The Permittee shall submit a test plan to the Illinois for review and comment at least 60 days prior to testing.
  - ii. The Permittee shall provide advance notification(s) of the date and time of emission testing to allow the Illinois EPA to observe testing. Initial notification shall be submitted at least 30 days prior to planned date of testing and shall be followed by prompt notification if the test date is delayed.
  - iii. The Permittee shall submit a test report to the Illinois EPA promptly after completion of testing and analysis, and in no case more than 45 days after test results are compiled.

#### 7.1.8 Monitoring Requirements

For the catalytic oxidizer, the Permittee shall install, operate and maintain a continuous temperature monitor for the temperatures before and after the catalyst bed.

#### 7.1.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected coating lines to demonstrate compliance with Conditions 5.5.1, 7.1.3(d), 7.1.5 and 7.1.6, pursuant to Section 39.5(7)(b) of the Act:

- a. The Permittee shall keep the following operating records related to the affected coating lines (including those separately used for chemical or physical analysis or determination of product quality and commercial acceptance) at the plant:
  - i. For each affected coating line and associated cleaning operations, separate files listing all coating materials or solvents used. These files shall be kept up to date and include the following information, as a minimum, for each material that contains VOM or HAP as identified by the supplier:
    - A. The name or other unique identification for each material;
    - B. The VOM content of the material, in lb/gallon;

- C. The VOM content of coating material, in lb/gallon, less water, as applied;
  - D. The VOM content of coating material, in lb/gallon of coating solids, as applied;
  - E. The HAP content of the material as supplied, by individual HAP, lb/gallon;
  - F. The total HAP content of the material, lb/gallon; and
  - G. The date and basis for the above data (e.g., supplier's Material Safety Data Sheet (MSDS), Method 24 analysis by Permittee, or combination of MSDS and process data).
- ii.
    - A. The usage of each material containing VOM or HAP, including dilution and cleaning solvents, gallons/week and gallons/month. Note: the Permittee may calculate the usage of materials based on purchase amounts.
    - B. The amount of reclaimed purge or cleaning solvent sent off site for disposal or reuse, with date and amount of VOM.
- iii. For the affected prime coating line, on each day that a line operates, appropriate records to show that the Permittee implemented relevant measures, as identified in Condition 7.1.9(c) (i) (A), other than measures inherent in normal process operation, if any, that it must implement to assure VOM compliance.
- iv. For the undercoat line, topcoat line and anti-chip line, on each day that it operates:
    - A. On days when complying by Option 1, appropriate records to show that the Permittee implemented relevant measures, as identified in Condition 7.1.9(c) (ii) (A), other than measures inherent in normal process operation, if any, that it must implement to assure VOM compliance.
    - B. On days when complying by Option 2 or 3, appropriate records of coating usage to support calculation of the daily weighted

average VOM content of coatings, as applied.

- C. On days when complying by means of Option 3 and actual operation of the catalytic oxidizer is required (operation not excused pursuant to Condition 7.1.5(a)) but the catalytic oxidizer was not operated or was not operated to satisfy Condition 7.1.5(e)(iii) at all times the topcoat line or anti-chip line operated, appropriate records of coating usage for the times when the catalytic oxidizer was operated, to support calculation of the amount of VOM subject to control by the catalytic oxidizer.
- b. The Permittee shall keep the following operating records related to the catalytic oxidizer:
    - i. Manufacturer's recommended practices for catalytic oxidizer maintenance and operation, including preheat temperature and minimum operating temperature.
    - ii. The Permittee's operating procedures for the catalytic oxidizer.
    - iii. The temperature data recorded pursuant to Condition 7.1.8.
    - iv. An operating log for the temperature monitoring system required by Condition 7.1.8, that identifies maintenance and repair activities for this system and any period when the system was not in service when the Permittee is operating the catalytic oxidizer.
    - v. An operating log for the catalytic oxidizer that identifies times when the catalytic oxidizer was or was not operated when the topcoat oven or anti-chip oven contained product, as necessary to supplement and explain the significance of the above temperature monitoring data. This log shall also identify any period when the catalytic oxidizer was not operated in the cool season pursuant to Condition 7.1.5(a).
    - vi. A maintenance and repair log for the catalytic oxidizer detailing inspections, maintenance activities and repairs, with date and description.

- c. The Permittee shall keep the following records for the affected coating lines related to compliance with 35 IAC Part 215, Subpart F.
  - i. For the affected prime coating line, the following records:
    - A. A separate demonstration for each line, which shall be kept current, that shows that the materials used on the line comply with 35 IAC 215.204(j)(3). This demonstration shall identify any measures that the Permittee must implement to assure compliance, e.g., if a particular coating material, as supplied, has a VOM content in excess of the applicable VOM emission limit, how the Permittee assures that the coatings as applied on the line comply, and whether these measures are inherent in normal process operation.
    - B. Each day when a line failed to comply, based on the records required by Condition 7.1.9(a)(iii), with line name, date, time, description, and explanation.
  - ii. For the undercoat line, topcoat line and anti-chip line, the following records:
    - A. If at any time the Permittee is relying on Option 1: Use of Complying Coatings, a demonstration to show that the materials used on the line comply with 35 IAC 215.204(j)(3). This demonstration shall identify any measures that the Permittee must implement to assure compliance and whether these measures are inherent in normal process operation.
    - B. For each day that the undercoat line, topcoat line or anti-chip line operates, the Option chosen for compliance with 35 IAC 215, Subpart F;
    - C. For days that the Permittee chooses Option 1, each day when the line failed to comply, based on the records required by Condition 7.1.9(a)(iv)(A), with description, and explanation.
    - D. For days that the Permittee chooses Option 2: Daily demonstration of compliance without reliance on a control device:

- I. The equivalent daily-weighted average VOM content of coatings as applied, based on the records required by Condition 7.1.9(a)(iv)(B), with supporting calculations;
  - II. Each day when the line failed to comply, with description, and explanation.
- E. For days that the Permittee chooses Option 3: Daily demonstration of compliance with reliance on a control device
- I. The equivalent daily-weighted average VOM content of coatings as applied, after credit is taken for the catalytic oxidizer, based on the records required by Condition 7.1.9(a)(iv)(C), with supporting calculations;
  - II. Each day when the line failed to comply, with description, and explanation;
  - III. Any time when actual operation of the catalytic oxidizer was required and the catalytic oxidizer was not in operation or did not satisfy Condition 7.1.5(e)(iii), based on the records required by Condition 7.1.9(b), with date, time, description, and explanation.
- d. The Permittee shall maintain the following records for emissions from the affected coating lines as follows:

Emissions of VOM and HAPs from coating operations on at least a quarterly basis for each week (for VOM) AND month (for HAPs) since the previous record, with supporting calculations. Emissions shall be determined from the product of material usage (Condition 7.1.9(a)(ii)) and VOM and HAP content (Condition 7.1.9(a)(i)). For the topcoat line and anti-chip line, the emissions may then be reduced to account for the operation of the catalytic oxidizer on the oven, provided that appropriate records of material usage were kept that cover the period(s) of time that the catalytic oxidizer was operated to

satisfy Condition 7.1.5(e) (iii). For example, if the Permittee only schedules the catalytic oxidizer for full operation for certain products, separate records of material use associated with those products must be maintained if the Permittee is to take credit for the effect of the catalytic oxidizer on VOM emissions. (See also Condition 7.1.9(a) (iv) (C).)

#### 7.1.10 Reporting Requirements

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

Emissions from the affected coating lines in excess of the limits specified in Condition 7.1.6 within 30 days of such occurrence.

#### 7.1.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

#### 7.1.12 Compliance Procedures

- a. Compliance with Condition 7.1.3(c) is considered to be assured by the inherent nature of the operations of the affected coating line, as demonstrated by historical operation.
- b. Compliance with Condition 7.1.3(d) shall be demonstrated by the recordkeeping requirements of Condition 7.1.9(a) (i), 7.1.9(a) (iii) and 7.1.9(c) (i) (A).
- c. Compliance with Condition 7.1.6 shall be demonstrated by the recordkeeping requirements of Condition 7.1.9(d).
- d. Compliance with Conditions 5.5.1, 7.1.6, 7.1.3(d) and (e) shall be demonstrated by the recordkeeping requirements of Condition 7.1.9(c) and the following:
  - i. A. When complying by means of Option 2 (See also 7.1.3(e) (i) (B)), an alternative daily emission limitation shall be determined for the affected coating line according to 35 IAC 218.205(c) (2) (See also 7.1.2(b) (i) (B)). Actual daily emissions shall never exceed the alternative daily emission limitation and

shall be calculated by use of the following equation.

$$E_d = \sum_{i=1}^n V_i C_i$$

where:

- $E_d$  = Actual VOM emissions for the day in units of kg/day (lbs/day);
- $i$  = Subscript denoting a specific coating applied;
- $n$  = Total number of coatings applied in the affected coating line;
- $V_i$  = Volume of each coating applied for the day in units of l/day (gal/day) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);
- $C_i$  = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM).

- B. The alternative daily emission limitation ( $A_d$ ) shall be determined for the affected coating line on a daily basis as follows:

$$A_d = \sum_{i=1}^n V_i L_i \left( \frac{D_i - C_i}{D_i - L_i} \right)$$

where:

- $A_d$  = The VOM emissions allowed for the day in units of kg/day (lbs/day);
- $i$  = Subscript denoting a specific coating applied;

- n = Total number of surface coatings applied in the affected coating line;
- C<sub>i</sub> = The VOM content of each surface coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);
- D<sub>i</sub> = The density of VOM in each coating applied. For the purposes of calculating A<sub>d</sub>, the density is 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM);
- V<sub>i</sub> = Volume of each surface coating applied for the day in units of l (gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);
- L<sub>i</sub> = 3.5 lbs VOM/gal of coating (minus water and any compounds which are specifically exempted from the definition of VOM).

ii. When complying by means of Option 3 (See also 7.1.3(e) (i) (C)), a daily emission limitation shall be determined for the affected coating lines according to 35 IAC 218.205(c) (2). Actual daily emissions shall never exceed the alternative daily emission limitation and shall be calculated by use of the following equation:

$$E_d = \sum_{i=1}^n C_i V_i (1 - F_i)$$

where:

- E<sub>d</sub> = Actual VOM emissions for the day in units of kg/day (lbs/day);
- i = Subscript denoting the specific coating applied;

- $n$  = Total number of surface coatings as applied in the affected coating line;
- $V_i$  = Volume of each coating as applied for the day in units of l/day (gal/day) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);
- $C_i$  = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); and
- $F_i$  = Fraction, by weight, of VOM emissions from the surface coating, reduced or prevented from being emitted to the ambient air. This is the overall efficiency of the capture system and control device.

7.2 Unit: Guardian West Decorative Chrome Plating Line  
 Control: CMP Filters, Scrubbers, Wetting Agent

7.2.1 Description

The decorative chrome plating line consists of surface preparation tanks, nickel plating tanks and rinses, and chrome plating tanks and rinses. Surface preparation tanks containing acidic or alkaline solutions are vented to the acid/alkaline scrubber; nickel plating tanks are vented to the nickel scrubber; and the chrome plating tanks are vented to a fume hood composite mesh pad (CMP) filter followed by a three-stage CMP filter unit. The chrome pre-dip tank (tank #25) and chrome plating tank (tank #26) achieve compliance by addition of a wetting agent. Rinse waters from the chrome plating tank is collected and concentrated in the chrome evaporator and returned to the chrome tank.

7.2.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
C-1	Decorative Chrome Plating Line and Ancillary Operations	Scrubbers, CMP Filters, Wetting Agent

7.2.3 Applicability Provisions and Applicable Regulations

- a. The "affected decorative chrome plating line" for the purpose of these unit-specific conditions, is the decorative chrome plating line and ancillary operations as described in Conditions 7.2.1 and 7.2.2.
- b. The affected decorative chrome plating line is subject to the emission limits identified in Condition 5.2.2.
- c. The affected decorative chrome plating line is subject to a National Emission Standard for Hazardous Air Pollutants (NESHAP) for chromium emissions from decorative chromium electroplating tanks, 40 CFR 63, Subparts A and N. The Illinois EPA is administering NESHAP in Illinois on behalf of the United States EPA under a delegation agreement. The Permittee shall comply with all applicable requirements of Subparts A and N.
- d. The affected decorative chrome plating line is subject to 35 IAC 212.321(a), which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any

one hour period from any new process emission unit 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 (see also Attachment 1) [35 IAC 212.321(a)].

7.2.4 Non-Applicability of Regulations of Concern

None

7.2.5 Control Requirements and Work Practices

The Permittee shall comply with the applicable work practice standards of 40 CFR 63.342(f).

7.2.6 Emission Limitations

During decorative chromium electroplating tank operation, the Permittee shall control chromium emissions discharged to the atmosphere by using a fume suppressant containing a wetting agent such that the surface tension of the electroplating bath does not exceed 45 dynes per centimeter [40 CFR 63.342(d)(2)].

7.2.7 Testing Requirements

The Permittee shall comply with the applicable performance test requirements and test methods of 40 CFR 63.344.

7.2.8 Monitoring Requirements

The Permittee shall comply with the applicable monitoring requirements of 40 CFR 63.343(c).

7.2.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected decorative chrome plating line to demonstrate compliance with Conditions 5.5.1 and 7.2.3, 7.2.5, and 7.2.6, pursuant to Section 39.5(7)(b) of the Act:

- a. The Permittee shall comply with the applicable recordkeeping requirements of 40 CFR 63.346;
- b. Annual emissions (calendar year) of HAP and PM from the affected decorative chrome plating line (tons/year).

#### 7.2.10 Reporting Requirements

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

Emissions from the affected decorative chrome plating line in excess of the limits specified in Condition 7.2.6 within 30 days of such occurrence.

- b. The Permittee shall comply with the applicable reporting requirements of 40 CFR 63.347.

#### 7.2.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

#### 7.2.12 Compliance Procedures

- a. Compliance with Condition 7.2.3(c) is assumed to be achieved by proper operation of the fume suppressant with wetting agent, as addressed by the work practice standards in Condition 7.2.5 and other provisions of 40 CFR 63, Subpart N.
- b. Compliance with Condition 7.2.3(d) is considered to be assured by the normal work practices and maintenance activities inherent in operation of the affected decorative chrome plating line.
- c. Compliance with the particulate matter and HAP emission limits in Condition 5.5 from the affected decorative chrome plating line shall be determined using appropriate emission factors such as the standard factors from USEPA's Compilation of Air Pollutant Emission Factors, AP-42, Section 12.20.

7.3 Unit: Hydrochloric Acid Bulk Storage Tank  
Control: Scrubber

7.3.1 Description

This tank stores hydrochloric acid that is used in the plating operation.

7.3.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
Tank	8,500 Gallon Hydrochloric Acid Bulk Storage Tank	Scrubber

7.3.3 Applicability Provisions and Applicable Regulations

- a. The "affected tank" for the purpose of these unit-specific conditions, is the tank described in Conditions 7.3.1 and 7.3.2.
- b. The affected tank is subject to the emission limits identified in Condition 5.2.2.
- c. The affected tank is subject to 35 IAC 212.321(a), which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit 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 (see also Attachment 1) [35 IAC 212.321(a)].

7.3.4 Non-Applicability of Regulations of Concern

None

7.3.5 Operational and Production Limits and Work Practices

None

7.3.6 Emission Limitations

There are no specific emission limitations for this unit, however, there are source wide emission limitations in Condition 5.5 that include this unit.

7.3.7 Testing Requirements

None

7.3.8 Monitoring Requirements

None

7.3.9 Recordkeeping Requirements

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

- a. Throughput of material stored (gallons/month and gallons/year); and
- b. Annual (calendar year) emissions of hydrochloric acid from the affected tank (tons/year) with supporting calculations, including documentation on the validity of the emission factors used. Note: hydrochloric acid is considered a HAP and PM.

7.3.10 Reporting Requirements

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

None

7.3.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.3.12 Compliance Procedures

Compliance with the emission limits in Conditions 5.5.1, shall be based on the recordkeeping requirements in Condition 7.3.9 and appropriate USEPA approved emission factors.

7.4 Unit: Boilers  
Control: None

7.4.1 Description

The two boilers are natural gas-fired and have a maximum firing rate of 12.5 mmBtu/hr each.

7.4.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
B-1	12.5 mmBtu/hr boiler	None
B-2	12.5 mmBtu/hr boiler	None

7.4.3 Applicability Provisions and Applicable Regulations

- a. The "affected boilers" for the purpose of these unit-specific conditions, is each boiler as described in Conditions 7.4.1 and 7.4.2.
- b. Each affected boiler is subject to the emission limits identified in Condition 5.2.2.
- c. The affected boilers are subject to the NSPS for Small Industrial-Commercial Institutional Steam Generating Units, 40 CFR 60 Subparts A and Dc, because the construction, modification, or reconstruction is commenced after June 9, 1989 and has a maximum design heat input capacity of 29 megawatts (MW) (100 million Btu per hour (Btu/hr)) or less, but greater than or equal to 2.9 MW (10 million Btu/hr). The Illinois EPA administers the NSPS for subject sources in Illinois pursuant to a delegation agreement with the USEPA.
- d. No person shall cause or allow the emission of carbon monoxide (CO) into the atmosphere from any fuel combustion emission source with actual heat input greater than 2.9 MW (10 mmBtu/hr) to exceed 200 ppm, corrected to 50 percent excess air [35 IAC 216.121].

7.4.4 Non-Applicability of Regulations of Concern

- a. The affected boilers are not subject to 35 IAC 217.141, emissions of nitrogen oxides from existing fuel combustion emission sources in major metropolitan areas, because the actual heat input of the affected boilers are less than 73.2 MW (250 mmBtu/hr).
- b. The provisions of 35 IAC 215.301 and 302, Use of Organic Material, shall not apply to fuel combustion emission sources [35 IAC 215.303].

7.4.5 Operational and Production Limits and Work Practices

- a. At all times, the Permittee shall maintain and operate the affected boilers in a manner consistent with good air pollution control practice for minimizing emissions, pursuant to 40 CFR 60.11(d).
- b. Natural gas shall be the only fuel fired in the affected boilers.

7.4.6 Emission Limitations

There are no specific emission limitations for this unit, however, there are source wide emission limitations in Condition 5.5 that include this unit.

7.4.7 Operating Requirements

None

7.4.8 Inspection Requirements

None

7.4.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected boilers to demonstrate compliance with Conditions 5.5.1 and 5.5.3, pursuant to Section 39.5(7)(b) of the Act:

- a. The Permittee of the affected boilers shall record and maintain records of the amount of fuel combusted in each boiler during each day [40 CFR 60.48c(g)];
- b. Annual (calendar year) emissions of NO<sub>x</sub>, PM, SO<sub>2</sub>, and VOM from the affected boilers, based on fuel consumption and the applicable emission factors, with supporting calculations (tons/year).

7.4.10 Reporting Requirements

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

None

7.4.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.4.12 Compliance Procedures

- a. Compliance with Condition 7.4.3(d) is considered to be assured by the normal work practices and maintenance activities inherent in operation of the affected boilers.
- b. Compliance with the emission limits in Conditions 5.5.1 and 5.5.3, shall be based on the recordkeeping requirements in Condition 7.4.9 and appropriate emission factors such as the standard factors from USEPA's Compilation of Air Pollutant Emission Factors, AP-42: Section 1.4, Natural Gas Combustion.

7.5 Unit: Guardian West Wastewater Treatment Process  
 Control: Scrubber

7.5.1 Description

Paint line wastewater and plating line waste water are introduced to the wastewater pretreatment units, which consists of several tanks. The wastewater treatment process removes metals and neutralizes acidic and alkaline wastewaters by the addition of chemicals. Wastewater solids are sent to a filter press which returns filtrate to the wastewater pretreatment units and sends de-watered sludge to the sludge dryer. The sludge dryer removes moisture from the sludge cake by means of a gas fired burner. The dryer exhaust is controlled by a water scrubber. Spent scrubbant water is returned to the wastewater pretreatment units. Dried sludge is sent to an on-site storage roll-off and then to recycling/disposal.

7.5.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
Wastewater Treatment Process	Wastewater Pretreatment Units, Filter Press, Sludge Dryer, On-site Storage Roll-off	Scrubber for Sludge Dryer

7.5.3 Applicability Provisions and Applicable Regulations

- a. The "affected wastewater treatment process" for the purpose of these unit-specific conditions, is the wastewater treatment process as described in Conditions 7.5.1 and 7.5.2.
- b. The affected wastewater treatment process is subject to the emission limits identified in Condition 5.2.2.
- c. The affected wastewater treatment process is subject to 35 IAC 212.321(a), which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit 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 (see also Attachment 1) [35 IAC 212.321(a)].

7.5.4 Non-Applicability of Regulations of Concern

This permit is issued based on the sludge dryer not being subject to 40 CFR Part 61, Subpart E: National Emission Standard for Mercury, because the sludge dryer processes sludge from a coating plant rather than a treatment plant.

7.5.5 Control Requirements

- a. The scrubber shall be in operation at all times when the affected wastewater treatment process is in operation and emitting contaminants.
- b. The Permittee shall follow good operating practices for the scrubber, including periodic inspection, routine maintenance and prompt repair of defects.

7.5.6 Emission Limitations

There are no specific emission limitations for this unit, however, there are source wide emission limitations in Condition 5.5 that include this unit.

7.5.7 Testing Requirements

None

7.5.8 Monitoring Requirements

None

7.5.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected wastewater treatment process to demonstrate compliance with Conditions 5.5.1 and 7.5.3(c), pursuant to Section 39.5(7)(b) of the Act:

- a. Amount of sludge produced (pounds/7-day cycle); and
- b. Annual (calendar year) PM emissions (tons).

7.5.10 Reporting Requirements

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

None

7.5.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.5.12 Compliance Procedures

Compliance with the particulate matter emission limits in Conditions 5.5.1 and 7.5.3(c) shall be determined using appropriate emission factors such as the standard factors from USEPA's Compilation of Air Pollutant Emission Factors, AP-42, Sections 1.4 and 11.24.

7.6 Unit: Flex-N-Gate Coating Lines  
 Control: Filters

7.6.1 Description

Flex-N-Gate's powder coat process applies a coating on steel bumpers, tubes, brackets, draw bars, etc. Particulate emissions are controlled by filters.

7.6.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
Coating Lines	Powder Coat Line, Undercoat Paint Booth	Filters on Powder Coat Line and Undercoat Paint Booth

7.6.3 Applicability Provisions and Applicable Regulations

- a. The "affected coating lines" for the purpose of these unit-specific conditions, are the coating lines as described in Conditions 7.6.1 and 7.6.2.
- b. The affected coating lines are subject to the emission limits identified in Condition 5.2.2.
- c. The affected coating lines are subject to 35 IAC 212.321(a), which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit 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 (see also Attachment 1) [35 IAC 212.321(a)].

- d. The affected coating lines are subject to 35 IAC Part 215, Subpart F: Coating Operations. Pursuant to 35 IAC 215.204(j) (3), the Permittee shall not cause or allow the emission of VOM to exceed 3.5 lb/gal, excluding water and any compounds which are specifically exempted from the definition of volatile organic material. The applicability of this rule is based on the lines conducting "miscellaneous metal parts product coating" with "extreme performance coating," as these terms are defined in 35 IAC Part 211.

7.6.4 Non-Applicability of Regulations of Concern

- a. Pursuant to 35 IAC 215.209, coating operations at the plant are not subject to 35 IAC 215.301, Use of Organic Material.
- b. This permit is issued based on the affected coating lines not being subject to the New Source Performance Standards (NSPS) for Automobile and Light Duty Truck Surface Coating Operations, 40 CFR Part 60, Subpart MM, because the affected coating lines are not located at an automobile or light-duty truck assembly plant.

7.6.5 Control Requirements

- a. The filters shall be in operation at all times when the powder coat line and the undercoat paint booth is in operation and emitting contaminants.
- b. The Permittee shall follow good operating practices for the filters, including periodic inspection, routine maintenance and prompt repair of defects.

7.6.6 Emission Limitations

There are no specific emission limitations for this unit, however, there are source wide emission limitations in Condition 5.5 that include this unit.

7.6.7 Testing Requirements

None

7.6.8 Monitoring Requirements

None

7.6.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected coating lines to demonstrate compliance with Conditions 5.5.1 and 7.6.3, pursuant to Section 39.5(7) (b) of the Act:

- a. VOM and HAP content of coating (lb VOM/gallon and lb HAP/gallon);
- b. Coating usage (gallons/month and gallons/year).  
Note: the Permittee may calculate the usage of materials based on purchase amounts.; and

- c. PM, VOM and HAP emissions (tons/month and tons/year) with supporting calculations.

7.6.10 Reporting Requirements

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

None

7.6.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.6.12 Compliance Procedures

- a. Compliance with Condition 7.6.3(c) is considered to be assured if the Permittee meets the requirements of 7.6.5.
- b. Compliance with the emission limitations in Condition 7.6.3(d) shall be determined from the recordkeeping requirements of Condition 7.6.9(a).
- c. Compliance with the VOM emission limits in Condition 5.5 shall be based on the recordkeeping requirements in Condition 7.6.9 and the emission factors and formulas listed below:

VOM Emissions (tons) = (coating usage, gallons x VOM content of the coating, lb VOM/gallon) / 2000 lb/ton

## 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 June 19, 2003 (the date of issuance of the draft permit) unless this permit has been modified to reflect such new requirements.

### 8.2 Applicability of Title IV Requirements (Acid Deposition Control)

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

### 8.3 Emissions Trading Programs

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

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

### 8.4 Operational Flexibility/Anticipated Operating Scenarios

#### 8.4.1 Changes Specifically Addressed by Permit

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

#### 8.4.2 Changes Requiring Prior Notification

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

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

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

#### 8.5 Testing Procedures

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

## 8.6 Reporting Requirements

### 8.6.1 Monitoring Reports

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

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

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

### 8.6.2 Test Notifications

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

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

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

#### 8.6.3 Test Reports

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

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

#### 8.6.4 Reporting Addresses

- a. The following addresses should be utilized for the submittal of reports, notifications, and renewals:
  - i. Illinois EPA - Air Compliance Section  
Illinois Environmental Protection Agency  
Bureau of Air  
Compliance Section (#40)  
P.O. Box 19276  
Springfield, Illinois 62794-9276
  - ii. Illinois EPA - Air Regional Field Office  
Illinois Environmental Protection Agency  
Division of Air Pollution Control  
2009 Mall Street  
Collinsville, Illinois 62234

iii. Illinois EPA - Air Permit Section (MC 11)

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

iv. USEPA Region 5 - Air Branch

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

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

8.7 Obligation to Comply with Title I Requirements

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

## 9.0 STANDARD PERMIT CONDITIONS

### 9.1 Effect of Permit

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

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

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

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

### 9.2 General Obligations of Permittee

#### 9.2.1 Duty to Comply

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

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

9.2.2 Duty to Maintain Equipment

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

9.2.3 Duty to Cease Operation

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

9.2.4 Disposal Operations

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

9.2.5 Duty to Pay Fees

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

9.3 Obligation to Allow Illinois EPA Surveillance

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

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

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

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

#### 9.4 Obligation to Comply With Other Requirements

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

#### 9.5 Liability

##### 9.5.1 Title

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

##### 9.5.2 Liability of Permittee

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

##### 9.5.3 Structural Stability

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

##### 9.5.4 Illinois EPA Liability

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

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

#### 9.5.5 Property Rights

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

### 9.6 Recordkeeping

#### 9.6.1 Control Equipment Maintenance Records

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

#### 9.6.2 Records of Changes in Operation

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

#### 9.6.3 Retention of Records

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

### 9.7 Annual Emissions Report

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

### 9.8 Requirements for Compliance Certification

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

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

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

#### 9.9 Certification

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

#### 9.10 Defense to Enforcement Actions

##### 9.10.1 Need to Halt or Reduce Activity Not a Defense

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

##### 9.10.2 Emergency Provision

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

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

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

#### 9.11 Permanent Shutdown

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

#### 9.12 Reopening and Reissuing Permit for Cause

##### 9.12.1 Permit Actions

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

#### 9.12.2 Reopening and Revision

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

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

#### 9.12.3 Inaccurate Application

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

#### 9.12.4 Duty to Provide Information

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

#### 9.13 Severability Clause

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

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

#### 9.14 Permit Expiration and Renewal

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

10.0 ATTACHMENTS

10.1 Attachment 1 - Emissions of Particulate Matter from New Process Emission Units

10.1.1 Process Emission Units for Which Construction or Modification Commenced On or After April 14, 1972

- a. 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)].
- b. 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,

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

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

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

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

- c. Limits for Process Emission Units For Which Construction or Modification Commenced On or After April 14, 1972 [35 IAC 212.321(c)]:

Metric		English	
P	E	P	E
Mg/hr	kg/hr	T/hr	lb/hr
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

10.2 Attachment 2 - Example Certification by a Responsible Official

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

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Official Title: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

Date Signed: \_\_\_\_\_

### 10.3 Attachment 3 - Guidance on Revising This Permit

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

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

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

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

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

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

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

3. Significant Permit Modification

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

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

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

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

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

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

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

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



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

<b>Application For Construction Permit (For CAAPP Sources Only)</b>	<b>For Illinois EPA use only</b>
	I.D. number:
	Permit number:
Date received:	

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

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

<b>Owner Information</b>		
9. Name:		
10. Address:		
11. City:	12. State:	13. Zip code:

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

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

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

### Summary Of Application Contents

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

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

### Signature Block

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

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

## 10.5 Attachment 5 - Guidance on Renewing This Permit

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

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

1. A completed form 200-CAAPP, APPLICATION FOR CAAPP PERMIT.
2. A completed compliance certification for the source. For this purpose, the Illinois EPA will accept a copy of the most recent form 401-CAAPP, ANNUAL COMPLIANCE CERTIFICATION submitted to the Illinois EPA.
3. If this is the first time this permit is being renewed and this source has not yet addressed CAM, the application should contain the information on form 464-CAAPP, COMPLIANCE ASSURANCE MONITORING (CAM) PLAN.
4. Information addressing any outstanding transfer agreement pursuant to the ERMS.
5.
  - a. If operations of an emission unit or group of emission units remain unchanged and are accurately depicted in previous submittals, the application may contain a letter signed by a responsible official that requests incorporation by reference of existing information previously submitted and on file with the Illinois EPA. The boxes should be marked yes on form 200-CAAPP, APPLICATION FOR CAAPP PERMIT, as existing information is being incorporated by reference.
  - b. If portions of current operations are not as described in previous submittals, then in addition to the information above for operations that remain unchanged, the application must contain the necessary information on all changes, e.g., discussion of changes, new or revised CAAPP forms, and a revised fee form 292-CAAPP, FEE DETERMINATION FOR CAAPP PERMIT, if necessary.

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

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

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

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

Mail renewal applications to:

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

JMS:psj