



cc: Illinois EPA, FOS, Region 1  
USEPA

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1.0 SOURCE IDENTIFICATION

1.1 Source

Rexam Beverage Can Company  
1101 West 43rd Street  
Chicago, Illinois 60609  
312/399-3389

I.D. No.: 031600BRL  
Standard Industrial Classification: 3411, Metal Cans

1.2 Owner/Parent Company

Rexam Beverage Can Company  
8770 West Bryn Mawr Avenue  
Chicago, Illinois 60631

1.3 Operator

Rexam Beverage Can Company  
8770 West Bryn Mawr Avenue  
Chicago, Illinois 60631

Geoffrey A. Wortley, Environmental Manager  
773/399-3389

1.4 General Source Description

The Rexam Beverage Can Company is located at 1101 West 43rd Street in Chicago, Illinois. The source applies decorative and functional coatings to aluminum beverage cans.

2.0 LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT

Act	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
ACMA	Alternative Compliance Market Account
ATUs	Allotment Trading Units
Btu	British thermal unit
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CFR	Code of Federal Regulations
CO	Carbon Monoxide
ERMS	Emissions Reduction Market System
°F	degrees Fahrenheit
ft <sup>3</sup>	cubic feet
HAP	Hazardous Air Pollutant
hr	hour
IAC	Illinois Administrative Code
I.D. No.	Identification Number of Source, assigned by Illinois EPA
Illinois EPA	Illinois Environmental Protection Agency
kW	kilowatts
lb	pound
mmBtu	Million British thermal units
NESHAP	National Emissions 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
psia	pounds per square inch absolute
RMP	Risk Management Plan
scf	standard cubic feet
SO <sub>2</sub>	Sulfur Dioxide
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds
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:

Inside Spray Tank

- 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:

Waste Oil Tank

- 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:

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

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

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

#### 3.2 Addition of Insignificant Activities

- 3.2.1 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).

- 3.2.2 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.

3.2.3 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
7.1	Can Printing/Coating lines	1982-1995	Thermal Oxidizer
7.2	Can Bodymakers and Washer/Dryers	1982/1995	Oil Mist Collecting System
7.3	Combustion Equipment	1982-1995	None

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.

5.1.2 This permit is issued based on the source being a major source of HAPs.

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.
  - i. This source shall be operated under the provisions of an operating program prepared by the Permittee and submitted to the Illinois EPA for its review. Such operating program shall be designed to significantly reduce fugitive particulate matter emissions [35 IAC 212.309(a)].
  - ii. The operating program shall be amended from time to time by the Permittee so that the operating program is current. Such amendments shall be consistent with the requirements set forth by this Condition and shall be submitted to the Illinois EPA [35 IAC 212.312].
  - iii. All normal traffic pattern roads and parking facilities located at this source shall be paved or treated with water, oils, or chemical dust suppressants. All paved areas shall be cleaned on a regular basis. All areas treated with water, oils, or chemical dust suppressants shall have the treatment applied on a regular basis, as needed, in accordance with the operating program [35 IAC 212.306].
- 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.

- c. No person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission unit to exceed 2,000 ppm [35 IAC 214.301].

5.2.3 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.

5.24 Should this stationary source, as defined in 40 CFR Part 68.3, become subject to the Accidental Release Prevention regulations in Part 68, then the owner or operator shall submit a Risk Management Plan (RMP) by the date specified in Section 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 49 CFR Part 70 or 71.

### 5.3 Non-Applicability of Regulations of Concern

None

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

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

None

### 5.5 Source-Wide Emission Limitations

#### 5.5.1 Permitted Emissions for Fees

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

Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	249.5
Sulfur Dioxide (SO <sub>2</sub> )	0.3
Particulate Matter (PM)	45.4
Nitrogen Oxides (NO <sub>x</sub> )	41.4
HAP, not included in VOM or PM	-
TOTAL	336.6

5.5.2 Emissions of Hazardous Air Pollutants

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

5.5.3 Other Source-Wide Emission Limitations

The annual emissions from the source, not considering insignificant activities as addressed by Section 3.0 of this permit, shall not exceed the following limitations:

- a. The following limits on VOM are limitations established in Construction Permit 95050064 pursuant to 35 IAC Part 203. These limits ensure that the construction/modification addressed in the aforementioned Construction Permit does not constitute a new major source or major modification pursuant to 35 IAC Part 203. See Condition 7.1.6.

Pollutant	Emissions (Tons/Year)	Underlying Rules
VOM	23.5	35 IAC Part 203

- b. The following limits on VOM are limitations established in Construction Permit C7906091 pursuant to 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits ensure that the construction/modification addressed in the aforementioned Construction Permit does not constitute a new major source or major modification pursuant to the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21. See Condition 7.1.6.

Pollutant	Emissions (Tons/Year)	Underlying Rules
VOM	209.6	40 CFR 52.21

The amount of solvent contained in individual coatings shall not exceed the following:

	<u>lb Solvent/ gal Coating</u>	<u>kg Solvent/ Liter Coating</u>
Inside Spray	3.63	0.435
Bottom End Spray	2.1	0.252
Overvarnish	2.1	0.252
Basecoat	1.8	0.216

These limits represent the Lowest Achievable Emission Rate as applied to these operations

## 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

Records of emissions shall be kept to demonstrate compliance with Condition 5.5.1 tabulated from the specific compliance procedures for unit specific conditions listed in Section 7.

### 5.6.3 Specific Records

N/A

### 5.6.4 Records for VOM and HAP Emissions

Permittee is subject to the unit specific records of Section 7. All HAP emissions are considered in the VOM emission limitation of Condition 5.5.1. All pollutants listed in Condition 5.5.1 shall be summed monthly over all emission units using the unit specific records and compliance procedures of Section 7, summing the current month plus the preceding 11 months to determine annual compliance with Condition 5.5.1.

### 5.6.5 Records for Operating Scenarios

In the event of afterburner failure (CD01), the Permittee shall record the duration of downtime (hourly) and excess emissions due to failure on an hourly basis (lb/hr).

#### 5.6.6 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 noncompliance 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.

### 5.8 General Operational Flexibility/Anticipated Operating Scenarios

In the event to afterburner malfunction (CD01), Permittee may continue to operate coating line as necessary to meet customer demands. VOM emissions shall be recorded hourly during malfunction of the afterburner and the net emissions for the month and aggregate annual emissions shall not exceed limitations of Condition 7.1.6.

### 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 EMISSION REDUCTION MARKET SYSTEM (ERMS)

### 6.1 Description of ERMS

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

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

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

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

### 6.2 Applicability

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

### 6.3 Obligation to Hold Allotment Trading Units (ATUs)

- a. Pursuant to 35 IAC 205.150(c)(1) and 205.720, and as further addressed by condition 6.8, as of December 31 of each year, this source shall hold ATUs in its account in an amount not less than its VOM emissions during the preceding seasonal allotment period (May 1 - September 30) not including VOM emissions from the following, or the source shall be subject to "emissions excursion compensation," as described in Condition 6.4.
  - i. VOM emissions from insignificant units and activities as identified in Section 3 of this permit, in accordance with 35 IAC 205.220;
  - ii. Excess VOM emissions associated with startup, malfunction or breakdown of an emission unit as authorized elsewhere in this permit, in accordance with 35 IAC 205.225;
  - iii. Excess VOM emissions to the extent allowed by a Variance, Consent Order, or Compliance Schedule, in accordance with 35 IAC 205.320(e)(3);
  - iv. Excess VOM emissions that are a consequence of an emergency as approved by the Illinois EPA, pursuant to 35 IAC 205.750; and
  - v. VOM emissions from certain new and modified emission units as addressed by Section 6.8(b), in accordance with 35 IAC 205.320(f).
- b. Notwithstanding the above condition, in accordance with 35 IAC 205.150(c)(2), if a source commences operation of a major modification pursuant to 35 IAC Part 203, the source shall hold ATUs in an amount not less than 1.3 times its VOM emissions attributable to such major modification during the seasonal allotment period, determined in accordance with the construction permit for such major modification or applicable provisions in Section 7.0 of this permit.

### 6.4 Market Transaction

- a. The source shall apply to the Illinois EPA for and obtain authorization for a Transaction Account prior to conducting any market transactions, as specified at 35 IAC 205.610.

- b. The source shall have at least one account officer designated for its Transaction Account pursuant to 35 IAC 205.620(a).
- c. Any transfer of ATUs to or from the source from another source or general participant must be authorized by a qualified Account Officer designated by the source and approved by the Illinois EPA in accordance with 35 IAC 205.620 and the transfer must be submitted to the Illinois EPA for entry into the Transaction Account database.

#### 6.5 Emission Excursion Compensation

Pursuant to 35 IAC 205.720, if the source fails to hold ATUs in accordance with Condition 6.3, it shall provide emissions excursion compensation in accordance with the following:

- a. Upon receipt of an Excursion Compensation Notice issued by the Illinois EPA, the source shall purchase ATUs from the ACMA in the amount specified by notice, as follows:
  - i. The purchase of ATUs shall be in an amount equivalent to 1.0 times the emissions excursion during the 1999 seasonal allotment period;
  - ii. The purchase of ATUs shall be in an amount equivalent to 1.2 times the emissions excursion; or
  - iii. If the source had an emissions excursion for the seasonal allotment period immediately before the period for the present emission excursion, the source shall purchase ATUs in an amount equivalent to 1.5 times the emissions excursion.
- b. If requested in accordance with paragraph (c) below or in the event that the ACMA balance is not adequate to cover the total emissions excursion amount, the Illinois EPA will deduct ATUs equivalent to the specified amount or any remaining portion thereof from the ATUs to be issued to the source for the next seasonal allotment period.
- c. Pursuant to 35 IAC 205.720(c), within 15 days of receipt of an Excursion Compensation Notice, the owner or operator may request that ATUs equivalent to the amount specified be deducted from the source's next seasonal allotment by the Illinois EPA, rather than purchased from the ACMA.

#### 6.6 Quantification of Seasonal VOM Emissions

- a. The methods and procedures specified in Section 5 and 7 of this permit for determining VOM emissions and compliance

with VOM emission limitations shall be used for determining seasonal VOM emissions for purposes of the ERMS, with the following exceptions [35 IAC 205.315(b)]:

No exceptions

- b. The Permittee shall report emergency conditions at the source to the Illinois EPA in accordance with 35 IAC 205.750, if the Permittee intends to deduct VOM emissions in excess of the technology-based emission rates normally achieved that are attributable to the emergency from the source's seasonal VOM emissions for purposes of the ERMS. These reports shall include the information specified by 35 IAC 205.650(a), and shall be submitted in accordance with the following:
  - i. An initial emergency condition report within two days of the time when such excess emissions occurred due to the emergency; and
  - ii. A final emergency condition report, if needed to supplement the initial report, within 10 days after the conclusion of the emergency.

#### 6.7 Annual Account Reporting

- a. For each year in which the source is operational, the Permittee shall submit, as a component of its Annual Emission Report, seasonal VOM emission information to the Illinois EPA for the seasonal allotment period. This report shall include the following information [35 IAC 205.300]:
  - i. Actual seasonal emissions of VOM from the source;
  - ii. A description of the methods and practices used to determine VOM emissions, as required by this permit, including any supporting documentation and calculations;
  - iii. A detailed description of any monitoring methods that differ from the methods specified in this permit, as provided in Section 205.337 of this Subpart;
  - iv. If a source has experienced an emergency, as provided in 35 IAC 205.750, the report shall reference the associated emergency conditions report that has been approved by the Agency;
  - v. If a source's baseline emissions have been adjusted due to a variance, consent order or CAAPP permit

compliance schedule, as provided for in 35 IAC 205.320(e)(3), the report shall provide documentation quantifying the excess VOM emissions during the season that were allowed by the Variance, Consent Order, or Compliance Schedule, in accordance with 35 IAC 205.320(e)(3); and

vi. If a source is operating a new or modified emission unit for which three years of operational data are not yet available, as specified in 35 IAC 205.320(f), the report shall specify seasonal VOM emissions attributable to the new emission unit or the modification of the emission unit.

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

#### 6.8 Allotment of ATUs to the Source

a. i. The allotment of ATUs to this source is 729 ATUs per seasonal allotment period.

ii. This allotment of ATUs reflects the Illinois EPA's determination that the source's baseline emissions were 72.804 tons.

A. This determination includes the use of 1994 and 1997 as baseline seasons. This determination includes use of the 1997 season as a substitute for the 1995 and 1996 seasons due to non-representative conditions in those seasons as allowed by 35 IAC 205.320(a).

B. This determination also includes adjustment to actual emissions to account for voluntary over-compliance at the source, e.g., the baseline emissions recognize 6.18 tons of voluntary over compliance from changes to the practices for cleaning solvents, pursuant to 35 IAC 205.320(d) as further addressed in Section 7 of this permit.

iii. The source's allotment reflects 88% of the baseline emissions (12% reduction) except for the VOM emissions from specific emission unit excluded from such reduction pursuant to 35 IAC 205.405 including units complying with MACT or using BAT, as identified in Section 7 of this permit.

iv. ATUs will be issued to the source's Transaction Account by the Illinois EPA annually. These ATUs will

be valid for the seasonal allotment periods following issuance and, if not retired in this season, the next seasonal allotment period.

- v. Condition 6.3(a) becomes effective beginning in the seasonal allotment period following the initial issuance of ATUs by the Illinois EPA into the Transaction Account for the source.

- b. Contingent Allotments for New or Modified Emission Units

N/A

- c. Notwithstanding the above, part or all of the above ATUs will not be issued to the source in circumstances as set forth in 35 IAC Part 205, including:

- i. Transfer of ATUs by the source to another participant or the ACMA, in accordance with 35 IAC 205.630;

- ii. Deduction of ATUs as a consequence of emission excursion compensation, in accordance with 35 IAC 205.720; and

- iii. Transfer of ATUs to the ACMA, as a consequence of shutdown of the source, in accordance with 35 IAC 205.410.

#### 6.9 Recordkeeping for ERMS

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

- a. Seasonal component of the Annual Emission Report;
- b. Information on actual VOM emissions, as specified in detail in Sections 5 and 7 of this permit and Condition 6.6(a);
- c. Any transfer agreements for the purchase or sale of ATUs and other documentation associated with the transfer of ATUs.

#### 6.10 Federal Enforceability

Section 6 becomes federally enforceable upon approval of the ERMS by USEPA as part of Illinois' State Implementation Plan.

#### 6.11 Exclusions from Further Reductions

a. VOM emissions from the following emission units, if satisfying subsection (a)(1), (a)(2), or (a)(3) prior to May 1, 1999, shall be excluded from the VOM emissions reductions requirements specified in IAC 205.400(c) and (e) as long as such emission units continue to satisfy subsection (a)(1), (a)(2), or (a)(3) [35 IAC 205.405(a)]:

- i. Emission units that comply with any NESHAP or MACT standard promulgated pursuant to the CAA;
- ii. Direct combustion emission units designed and used for comfort heating purposes, fuel combustion emission units and internal combustion engines; and
- iii. An emission unit for which a LAER demonstration has been approved by the Agency on or after November 15, 1990.

The source has demonstrated in their ERMS application and the Illinois EPA has determined that the following emission units qualifies for exclusion from further reductions because they meet the criteria as indicated above [35 IAC 205.400(a) and (c)]:

Make Up Air Unites: EU06, EU07, EU08, EU09

Boilers: EU01, EU02

Washer Ovens: EU03, EU04

Can Coating Line 3: (EU14, Eu24, EU33, EU34, CD-1 and Cleaning Line 3)

b. VOM emissions from the emission units using BAT for controlling VOM emissions, prior to May 1, 1999, shall not be subject to the VOM emissions reductions requirements specified in IAC 205.400(c) or (e) as long as such emission unit continues to use such BAT [35 IAC 205.405(b)].

The source has demonstrated in their ERMS application and the Illinois EPA has determined that the following emission units qualifies from further reductions

because these emission units use BAT for controlling VOM emissions as indicated above [35 IAC 205.400(b) and (c)]:

None

7.0 UNIT SPECIFIC CONDITIONS

7.1 Unit 01 - Can Coating Line  
Control CD01 - Thermal Oxidizer

7.1.1 Description

Cans which have been washed and dried are ink printed with printing/coating units (EU11-EU14). Following the ink printing, varnish is applied over the ink and to the bottom of the cans using the printing/coating units (EU11-EU14). Printed and varnished cans are then dried in ovens (EU21-EU23 uncontrolled and EU24 controlled). Upon drying, the printed cans are conveyed to inside spray machines which apply a protective coating to the inside of the can (EU31-EU33) and subsequently, the cans cured in inside bake ovens (EU41-EU42 uncontrolled and EU43 controlled).

7.1.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
01	Printing/Coating Units		None
	EU11	1982	
	EU12	1982	
	EU13	1982	
	EU14	1995	
	Uncontrolled Printer Ovens		None
	EU21	1982	
	EU22	1982	
	EU23	1982	
	Controlled Printer Oven		Thermal Oxidizer (CD01)
	EU24	1995	
	Inside Spray Machines		None
	EU31	1982	
	EU32	1982	
	EU33	1982	
	Uncontrolled Inside Bake Ovens		None
	EU41	1991	
	EU42	1991	
	Controlled Inside Bake Oven		Thermal Oxidizer (CD01)
	EU43	1995	

### 7.1.3 Applicability Provisions and Applicable Regulations

- a. An "affected can coating line" for the purpose of these unit-specific conditions, is a beverage can surface coating line consisting of: four can printing/coating machines (EU11, EU12, EU13, and EU14), four printer ovens (EU21, EU22, EU23 uncontrolled and EU24 controlled), three inside spray machines (EU31, EU32, EU33), and three inside bake ovens (EU41, EU42 uncontrolled and EU43 controlled) that is subject to the NSPS for the Beverage Can Surface Coating Industry, 40 CFR 60 Subparts A and WW, because the source applies an exterior base coat, overvarnish coating, and inside spray coating to beverage cans and the source commenced construction, modification, or reconstruction after November 26, 1980. The Illinois EPA administers the NSPS for subject sources in Illinois pursuant to a delegation agreement with the USEPA.
- b. NSPS Standards for volatile organic compounds:

Pursuant to 40 CFR 60.492, no owner or operator shall discharge or cause the discharge of VOC emissions to the atmosphere that exceed the following volume-weighted calendar-month average emissions:

  - i. 0.29 kilogram of VOC per liter of coating solids from each two-piece can exterior base coating operation, except clear base coat;
  - ii. 0.46 kilogram of VOC per liter of coating solids from each two-piece can clear base coating operation and from each overvarnish coating operation; and
  - iii. 0.89 kilogram of VOC per liter of coating solids from each two-piece can inside spray coating operation.
- c. At all times, the Permittee shall also, to the extent practicable, maintain and operate the can coating line including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions, pursuant to 40 CFR 60.11 (d).
- d. Each affected coating line at the source is subject to 35 IAC 218.204(b), which requires that:

No owner or operator of a coating line shall apply at any time any coating in which the VOM content exceeds the following emission limitations for the specified coating. The following emission limitations are expressed in units of VOM per volume of coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied at each coating applicator, except where noted. Compounds which are specifically exempted from the definition of VOM should be treated as water for the purpose of calculating the "less water" part of the coating composition. Compliance with this Subpart must be demonstrated through the applicable coating analysis test methods and procedures specified in 35 IAC 218.105(a) and the recordkeeping and reporting requirements specified in 35 IAC 218.211(c). The emission limitations on and after March 15, 1996 for can coating operations are as follows:

- i. Sheet basecoat and overvarnish
 

	<u>kg/l</u>	<u>lb/gal</u>
A. Sheet basecoat	0.26	2.2
B. Overvarnish	0.34	2.8
- ii. Exterior basecoat and overvarnish      0.25    2.1
- iii. Interior body spray coat
 

A. Two piece	0.44	3.7
B. Three piece	0.51	4.2
- iv. Exterior end coat                              0.51    4.2
- v. Side seam spray coat                            0.66    5.5
- vi. End Sealing compound coat                    0.44    3.7
- e. Each affected coating line is subject to the emission limits identified in Condition 5.2.2.
- f. Each affected coating line at the source is subject to 35 IAC 212.321(a), which requires 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 by the following equation:

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

Where:

P = Process weight rate; and

E = Allowable emission rate; and,

1. Up to process weight rates of 408 MG/hr (450 T/hr):

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

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

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

7.1.4 Non-Applicability of Regulations of Concern

N/A

7.1.5 Control Requirements

The Permittee shall comply with the following limits which were established in Construction Permit 95050064 for emission units EU24 and EU43:

- a. The afterburner shall be in operation at all times the can coating line is in operation except during unavoidable malfunction and breakdown periods. Notwithstanding 35 Ill. Adm. Code 218.207, winter shutdown of the afterburner is not permitted.
- b. The afterburner shall be operated in accordance with the requirements of 35 Ill. Adm. Code 218.105(d)(2).
- c. The afterburner combustion chamber shall be preheated to at least the manufacturer's recommended temperature but not lower than 1400 F before the can coating process is begun. This temperature shall be maintained during operation.
- d. The afterburner shall be equipped with a continuous temperature indicator and strip chart recorder or disk storage for the combustion chamber temperature.

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 line is subject to the following limitations pursuant to Construction Permit C7906091:

- a. The amount of solvent contained in individual coatings shall not exceed the following:

	<u>lb Solvent/ gal Coating</u>	<u>kg Solvent/ Liter Coating</u>
Inside Spray	3.63	0.435
Bottom End Spray	2.1	0.252
Overvarnish	2.1	0.252
Basecoat	1.8	0.216

These limits represent the Lowest Achievable Emission Rate as applied to these operations

- b. Emissions of volatile organic material from coatings, i.e. inside spray, bottom end spray, basecoat, and over varnish shall not exceed 209.6 tons per year, using a 12 month running total.
- c. The usage of cleanup solvents for manufacturing lines #1 and #2 shall not exceed the following:

<u>Solvent</u>	Monthly Usage <sup>(i)</sup> <u>(lb)</u>	VOM Emissions <u>(ton/yr)</u>
MT 50/50	3,000	18.0
Other	250	1.5

- i. The usage for MT 50/50 is the amount used less the amount of VOM material reclaimed. The usage of other solvents is the amount consumed.
- d. The total volatile organic material contained in inks shall not exceed 1.5 ton/month and 18.0 ton/year. Compliance with this limit shall be determined by recordkeeping of ink usage and the VOM content of each ink.
- e. The volatile fraction of each ink as it is applied to the can, less water and exempt compounds, shall be 40 percent or less by volume.
- f. Pursuant to Construction Permit 95050064, the Permittee shall not allow emissions from the affected coating lines (including emission units EU14, EU24, EU33, EU43, and control CD01) to exceed the following limits:
  - i. VOM usage and associated VOM emissions from the can coating line (excluding VOM associated with solvent cleanup operation) shall not exceed the following limits:



Type of Coating Operation	VOM Usage		VOM Emissions	
	tons/mo	tons/yr	tons/mo	tons/yr
Overvarnish (Includes Varnish, Rim Varnish, & Inks)	2.12	25.45	0.51	6.1
Inside Spray	6.03	72.4	1.45	17.4

The usage limits are based on the maximum gallons of coating solids applied and the associated VOM content (lbs of VOM per gallon of coating solids). The emission limits are based on the can coating line being equipped with a capture system and control device (afterburner) that provides 76 percent reduction in the overall emissions of VOM from the can coating line and the afterburner achieving a minimum reduction in VOM of 95 percent. Compliance with these limits shall be determined by testing and recordkeeping.

A. VOM usage shall be calculated as follows:

Gallons of coating solids applied (gal/mo) multiplied by lbs of VOM per gallon of coating solids.

e.g., (55 gal of solids/mo) \* (3.25 lbs of VOM per gallon of solids) = 179 lbs/mo

B. VOM emissions shall be calculated as follows:

{(VOM usage) \* (1 - Capture Efficiency) + [(VOM usage) \* (Capture Efficiency) \* (1 - Destruction Efficiency)] }

e.g., {(VOM usage) \* (1 - 80%) + [(VOM usage) \* (80%) \* (1- 95%)]}

{(179 lb/mo) \* (1 - 0.8) + [(179) \* (0.8) \* (1- 0.95)]} = 43 lbs/mo

g. The cleanup solvent usage and associated VOM emissions for manufacturing line #3 shall not exceed 2.5 tons/year and 0.3 tons/year respectively. Compliance

with these limits shall be determined by recordkeeping in accordance with Condition 7.1.9. Compliance with annual limits shall be determined from a running total of 12 months of data.

- h. Emissions and operation of equipment shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Firing Rate (mmBtu/hr)</u>	<u>NO<sub>x</sub> Emissions</u>	
		<u>(lb/hr)</u>	<u>(ton/yr)</u>
Pin Oven	5.6	0.53	2.34
Bake Oven	5.2	0.50	2.17
Afterburner	9.0	0.86	3.75

The emission limits are based on the maximum firing rates and using standard AP-42 emission factors. Compliance with annual limits shall be determined from a running total of 12 months of data.

#### 7.1.7 Testing Requirements

The Permittee shall conduct the following performance tests pursuant to 40 CFR 60.693:

- a. Pursuant to 40 CFR 60.493(b)(1), the Permittee shall determine the VOC content of the coatings from formulation data supplied by the manufacturer of the coating or by an analysis of each coating, as received, using USEPA Method 24 or equivalent.
- b. The Permittee shall perform the following calculations and analysis to calculate the volume-weighted average of the total mass of VOC per volume of coating solids used during the calendar month for each affected source except as provided in Condition 7.1.7(e). The calculations shall be performed by the following procedures:
- i. Calculate the mass of VOC used ( $M_o + M_d$ ) during the calendar month for the affected source by the following equation:

$$M_o + M_d = \sum_{i=1}^n L_{ci} D_{ci} W_{oi} + \sum_{j=1}^m L_{dj} D_{dj}$$

Where:

$M_o$  = Mass of VOC-solvent in coatings consumed, as received (kg)

$M_d$  = Mass of VOC-solvent added to coatings (kg)

$L_c$  = Volume of each coating consumed, as received (L)

$L_d$  = Volume of each VOC-solvent added to coatings (L)

$D_c$  = Density of each coating, as received (kg/L)

$D_d$  = Density of each VOC-solvent added to coatings (kg/L)

$W_o$  = Portion of VOC in each coating, as received (fraction by weight)

( $\sum L_{dj} D_{dj}$  will be 0 if no VOC solvent is added to the coatings, as received.)

- ii. Calculate the total volume of coating solids used ( $L_s$ ) in the calendar month for the affected source by the following equation:

$$L_s = \sum_{i=1}^n L_{ci} V_{si}$$

Where:

$n$  is the number of different coatings used during the calendar month.

- iii. Calculate the volume-weighted average mass of VOC per volume of solids used ( $G$ ) during the calendar month for the affected source by the following equation:

$$G = \frac{M_o + M_d}{L_{T2s}}$$

Where:

$L_{T2s}$  = Volume of coating solids consumed (L)

- c. Calculate the volume-weighted average of VOC emissions discharged to the atmosphere ( $N$ ) during the calendar month for the affected source by the following equation:

$$N=G$$

- d. Where the value of the volume-weighted average of mass of VOC per volume discharged to the atmosphere (N) is equal or less than the applicable emission limit specified in 40 CFR 60.492, the affected source is in compliance.
  
- e. If each individual coating used by an affected source has a VOC content equal to or less than the limit specified in 40 CFR 60.492, the affected source is in compliance provided no VOC-solvents are added to the coating during distribution or application. [40 CFR 60.493(b)(1)(iv)]

7.1.8 Inspection Requirements

None

#### 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 each affected coating line to demonstrate compliance with Conditions 5.5.1 and 7.1.6, pursuant to Section 39.5(7)(b) of the Act:

- a. Each owner or operator subject to 40 CFR Subpart WW shall maintain at the source, for a period of at least 2 years, records of all data and emissions from each affected source in the initial and monthly performance tests. [40 CFR 60.495(d)]
- b. The Permittee shall maintain records of the following items to allow compliance with the limitations and requirements in Condition 7.1.6 to be determined.
  - i. Name and identification of each coating and ink used.
  - ii. Amount of each coating used (gallons/month and gallons of solids/month).
  - iii. VOM and HAP content of each coating used (lb VOM/gallon and HAP/gallon of coating minus water and exempt compounds, and also lb VOM/gallon and HAP/gallon of solids as applied).
  - iv. VOM and HAP content of each coating used (lbs VOM/gallon and lbs HAP/gallon of coating including water and exempt compounds).
  - v. Density of each coating used (lbs/gallon).
  - vi. Amount of each ink used (lbs/month).
  - vii. VOM and HAP content of each ink used (weight percent).
  - viii. Using the above information, record total VOM and HAP usage for inks and coatings (lbs/month).
  - ix. Annual VOM and HAP usage (tons/year) and annual VOM and HAP emissions (tons/year), summing the months data and the previous 11 months.
  - x. Name and identification of all clean up

solvents used.

- xi. Amount of each clean up solvent used (lbs/month).
- xii. VOM and HAP content of each clean up solvent used (weight percent).
- xiii. Amount of clean up solvent reclaimed for reuse or sent offsite for disposal.
- xiv. Monthly VOM and HAP emissions from solvent clean up operation (lbs/month). Annual emissions shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months.
- xv.
  - A. Afterburner combustion chamber monitoring data.
  - B. A log of operating time for the capture system, afterburner, monitoring device, and the associated emission unit.
  - C. A maintenance log for the capture system, afterburner and monitoring device detailing all routine and non-routine maintenance performed including dates and duration of any outages.

#### 7.1.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section of noncompliance of an affected coating 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:

- a. The Permittee shall fulfill the initial compliance reporting requirements of 40 CFR 60.495(a) including:
  - i. Coatings which individually have a VOC content equal or less than the limits specified in 40 CFR 60.492 are used, and no VOC is added to the coating during the application or distribution process, the owner or operator shall provide a list of the coatings used for each affected source and the VOC content of each coating calculated from data determined using Reference Method 24 or supplied by the

manufacturers of the coatings.

- ii. Where one or more coatings which individually have a VOC content greater than the limits specified in 40 CFR 60.492 are used in the coating process, the owner or operator shall report for each affected source the volume-weighted average of the total mass of VOC per volume of coating solids.
- b. Following the initial performance test, each owner or operator shall identify, record, and submit quarterly reports to the Illinois EPA of each instance in which the volume-weighted average of the total mass of VOC per volume of coating solids, after the control device, if capture devices and control systems are used, is greater than the limit specified in 40 CFR 60.492. If no such instances occur during a particular quarter, a report stating this shall be submitted to the Illinois EPA semiannually. [40 CFR 60.495(b)]

#### 7.1.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

#### 7.1.12 Compliance Procedures

Compliance with the emission limits in Conditions 5.5 and 7.1.6 from the affected coating lines shall be based on the testing and recordkeeping requirements in Conditions 7.1.7 and 7.1.9, respectively. The following procedures shall be utilized to determine compliance with the aforementioned limits:

- a. Compliance with Condition 7.1.3(b) shall be determined by the Permittee demonstrating compliance using the volume-weighted average of the total mass of VOC per volume of coating solids as shown in the equations of Condition 7.1.7(b)-(d), using compliant coatings described in Condition 7.1.7(e), or alternatively, using a capture and control system described in 40 CFR 60.493.
- b. Compliance of each coating with the VOM emission limitations in Condition 7.1.3(d) shall be based on the use of the formulas listed below:

$$\text{VOM Coating Content} = V \times D / [ 1 - W \times D ],$$

Where:

V = Percent VOM in the coating (%)

D = Overall coating density (lb/gal)

W =  $\mathbf{E}(w_i/d_i)$ ,

Where:

$w_i$  = Percent exempt compound i in the coating,

$d_i$  = Overall density of exempt compound i, in lb/gal

and the summation  $\mathbf{E}$  is applied over water and all exempt compounds i, in the coating.

c. Emissions from coating operations shall be determined from the following equations:

i. For uncontrolled coating operations, emissions shall be determined by:

$$E_{duc} = \sum_{i=1}^n CV_i$$

Where:

Summation (i) from 1 to n coatings

$E_{duc}$  = lb VOM emitted per day from uncontrolled coating operations (lb/day)

C = Amount of coating used (gal/day)

V = VOM content of coating including water and exempt compounds (lb/gal)

Subsequently, monthly VOM emissions shall be determined by:

$$E_{muc} = \sum_{i=1}^n E_{duci}$$

Where:

Summation (i) from 1 to n days per month

$E_{muc}$  = Monthly VOM emissions (lb/month) from uncontrolled coating operations.

Note, monthly emissions (lb/month) shall be converted to (ton/month) by a conversion factor of 2,000 lb/ton.

- ii. For controlled coating operations, emissions shall be determined by:

$$E_{dcc} = (1 - 0.76) \sum_{i=1}^n CV_i$$

Where:

Summation from 1 to n coatings applied

$E_{dcc}$  = Emissions from uncontrolled coating operations (lb/day).

an overall capture and control of 76 percent is required as demonstrated through testing and recordkeeping for the controlled coating lines. See 7.1.12(c)(i) for variable description and monthly emission ( $E_{mcc}$ ) calculations.

- d. Emissions from ink application shall be determined from the following equations:

- i. For uncontrolled ink application, emissions shall be determined by:

$$E_{dui} = \sum_{i=1}^n IW_i$$

Where:

Summation (i) from 1 to n inks applied

$E_{dui}$  = Lb VOM emitted per day (lb/day) from uncontrolled ink application.

I = Amount of ink used (lb/day)

W = VOM content of ink (weight percent)

Subsequently, monthly VOM emissions from inks  $E_{mui}$  shall be determined by the same method as shown in 7.1.12(c)(i) using daily emissions  $E_{dui}$ .

- ii. For controlled ink application, emissions shall be determined by:

$$E_{dci} = (1 - 0.76) \sum_{i=1}^n IW_i$$

Where:

an overall capture and control of 76 percent is required as demonstrated through testing and recordkeeping for the controlled coating lines. See 7.1.12(d)(i) for variable description and monthly emission ( $E_{mci}$ ) calculations by using  $E_{dci}$ .

$E_{dci}$  = Emissions of VOM from controlled ink application (lb/day)

- e. Emissions from cleanup solvents shall be determined by the following equations:

$$E_{sm} = E_{sum} - E_{srm}$$

Where:

$E_{sm}$  = Emissions of cleanup solvents per month (lb/month)

$E_{sum}$  = Amount of solvents used per month (lb/month)

$E_{srm}$  = Amount of solvents reclaimed per month (lb/month)

- f. Emissions of VOM determined for annual compliance shall be achieved by the following equations:

$$E_{tm} = E_{muc} + E_{mcc} + E_{mui} + E_{mci} + E_{sm}$$

Where:

$E_{tm}$  = Total VOM emissions from affected coating line (lb/month)

all other variables have been previously defined in this section.

Subsequently, annual VOM emissions shall be determined by:

$$E_{at} = \sum_{i=1}^n E_{mti}$$

Where:

Summation (i) from current month plus the 11 previous months (n=12).

$E_{at}$  = Annual emissions of VOM from affected coating line (tons/yr).

Note, monthly emissions (lb/month) shall be converted to (ton/month) by a conversion factor of 2,000 lb/ton.

- g. Compliance with the particulate matter and  $\text{NO}_x$  limitations in this section is assured and achieved by the proper operation and maintenance of the equipment and the work-practices inherent in operation of an affected coating line.

7.2 Unit 02 - Can Bodymakers and Washer/dryers  
Control CD02 - Oil Mist Collecting System

7.2.1 Description

Bodymakers draw and iron cupped aluminum into cans. Water soluble lubricant is used in the drawing process becoming suspended in air. Hoods capturing the droplet laden air are ducted to an oil mist collecting system. The clean air from this system is discharged within the facility. Formed cans are subsequently washed and dried in the washer/dryer units.

7.2.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
02	18 Bodymakers (EU05)	12 - 1982 6 - 1995	Oil Mist Collecting System (CD02)
	2 Can washer w/dryers (EU03 and EU04)	1982 and 1995	None

7.2.3 Applicability Provisions and Applicable Regulations

- a. An "affected bodymaker" for the purpose of these unit-specific conditions, is a can drawing and ironing machine that is only subject to 35 IAC 212.321. A bodymaker is subject to the requirements of 35 IAC 212.321 if the bodymaker is a new process emission unit emitting lubricant as particulate matter.
- b. Pursuant to 35 IAC 212.321, 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 by the following equation:

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

Where:

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

1. Up to process weight rates of 408 MG/hr (450 T/hr):

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

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

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

- c. Pursuant to 35 IAC 214.303, with the exception of fuel combustion emission sources and acid manufacturing, no person using sulfuric acid shall cause or allow the emission of sulfuric acid and/or sulfur trioxide from all other similar emission sources at a plant or premises to exceed:

- i. 45.4 grams in any one hour period for sulfuric acid usage less than 1180 MG/yr (100 percent acid basis) (0.10 lbs/hr up to 1300 T/yr);
- ii. 250 grams per metric ton of acid used for sulfuric acid usage greater than or equal to 1180 Mg/yr (100 percent acid basis) (0.50 lbs/T over 1300 T/yr).

- d. Each affected bodymaker and washer is subject to the emission limits identified in Condition 5.2.2.

7.2.4 Non-Applicability of Regulations of Concern

N/A

7.2.5 Control Requirements

This permit is issued based on 98% PM control achieved by the oil mist collecting system (CD02) servicing the bodymakers.

7.2.6 Emission Limitations

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

- a. Pursuant to Construction Permit 93090012, the Permittee shall not allow emissions from the affected bodymakers to exceed the following limits:

<u>Item of Equipment</u>	Operating	PM Emissions	
	Hours (hr/yr)	(lb/hr)	(T/yr)
All Bodymakers	8,760	1.01	4.42

These limits are based on the information provided for Construction Permit 93090012, based on aluminum and oil throughput of 354 pounds per hour, and a control efficiency of 99% .

- b. Pursuant to Construction Permit 95050064, the Permittee shall not allow emissions from the affected washer (EU04) to exceed the following limits:

<u>Item of Equipment</u>	Firing Rate (mmBtu/hr)	NO <sub>x</sub> Emissions	
		(lb/hr)	(ton/yr)
Washer Dryer	4.5	0.43	1.88

These limits are based on the information provided for Construction Permit 95050064, based on maximum firing rate, natural gas consumption, and standard AP-42 emission factors.

7.2.7 Testing Requirements

None

7.2.8 Inspection Requirements

None

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 each affected bodymaker and washer to demonstrate compliance with Conditions 5.5.1 and 7.2.6, pursuant to Section 39.5(7)(b) of the Act:

- a. Records of material throughput for the bodymakers including aluminum and lubricating oil (T/mo).
- b. Records of wet scrubber operation and manufacturers recommended maintenance to assure effective control.
- c. Natural gas consumption (mmscf/mo).

7.2.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section of noncompliance of an affected bodymaker 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:

- a. Emissions of PM from the affected bodymakers or NO<sub>x</sub> from the affected washer in excess of the limits specified in Conditions 7.2.3, 7.2.6, and 5.5.1.

7.2.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.2.12 Compliance Procedures

- a. Compliance with the emission limits in Condition 5.5 from the affected bodymakers shall be based on the recordkeeping requirements in Condition 7.2.9 and maximum emissions provided in Condition 7.2.6 with proper maintenance and operation of the scrubber.
- b. Compliance with the emission limits in Condition 5.5 from the affected washers shall be based on the recordkeeping requirements in Condition 7.2.9 and the emission factors and formulas listed below:

Pollutant <u>Type</u>	Emission Factor <u>(lb/mmscf)</u>
NO <sub>x</sub>	100
CO	84
VOM	5.5
PM	7.6
SO <sub>2</sub>	0.6

Emission factors are based on the maximum firing rate of an individual natural gas boiler and AP-42 standard emission factors.

Emissions (ton/yr) = Individual natural gas usage (mmscf/yr) x applicable emission factor (lb/mmscf).

Annual compliance based on 12 month running total which is the sum of the current month plus the preceding 11 months.

7.3 Unit 03 - Boilers and Air Makeup Units  
Control None

7.3.1 Description

Natural gas fired boilers (EU01 and EU02) are used for heating water used in the can washers (see Section 7.2 of this permit) and natural gas fired makeup air units (EU06-EU09) heat outside air and exhaust into the plant.

7.3.2 List of Emission Equipment and Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
03	2 Boilers (EU01 and EU02)	1 - 1992 1 - 1995	None
	Makeup Air Units (EU06-EU09)	1982 and 1995	None

7.3.3 Applicability Provisions and Applicable Regulations

- a. An "affected boiler" and "affect air makeup unit" for the purpose of these unit specific conditions, is each boiler and affect air makeup unit listed in Condition 7.3.2.

7.3.4 Non-Applicability of Regulations of Concern

- a. The affected boilers and air makeup units are not subject to NSPS, 40 CFR 60 Subpart Dc, Small Industrial-Commercial-Institutional Steam Generating Units, since each steam generating units have a maximum heat input less than 10 mmBtu/hr.
- b. The affected boilers and air makeup units are not subject to 35 IAC 216.121, emissions of carbon monoxide from fuel combustion emission sources, since the actual heat input from each combustion unit is less than 2.9 MW (10 mmBtu/hr).
- c. The affected boilers and air makeup units are not subject to 35 IAC 217.141, Existing Emission Sources in Major Metropolitan Areas, since the actual heat input of the boilers is less than 73.2 MW (250 mmBtu/hr).
- d. The affected boilers and air makeup units are not subject to 35 IAC 218.301, Use of Organic Material, pursuant to 35 IAC 218.303, Fuel Combustion Emission

Sources, which excludes fuel combustion emission units from this requirement.

7.3.5 Operational and Production Limits and Work Practices

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

7.3.6 Emission Limitations

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

- a. Permittee shall not allow emissions from the affected washer boiler (EU01 and EU02) and affected air makeup units (EU06-EU09) to exceed the following limits:

<u>Item of Equipment</u>	<u>Firing Rate</u> <u>(mmBtu/hr)</u>	<u>NO<sub>x</sub></u> <u>Emissions</u>	
		<u>(lb/hr)</u>	<u>(ton/yr)</u>
EU01	5.2	0.5	2.17
EU02	2.1	0.2	0.87
EU06	9.63	0.92	4.02
EU07	9.63	0.92	4.02
EU08	9.63	0.92	4.02
EU09	6.88	0.65	2.87

These limits are based on the information provided for Construction Permit 95050064 (EU02), based on 8,760 hr/yr operation, maximum firing rate, natural gas consumption, a Btu content of 1,050 Btu/scf for natural gas consumed, and standard AP-42 emission factors.

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 boilers to demonstrate compliance with Condition 5.5.1 pursuant to Section 39.5(7)(b) of the Act:

- a. Fuel consumption (scf/mo), and
- b. Fuel combustion emissions calculated in accordance with the procedures given in Condition 7.3.12 (ton/yr).

7.3.10 Reporting Requirements

If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences [Section 39.5(7)(f)(ii) of the Act].

7.3.11 Operational Flexibility/Anticipated Operating Scenarios

None

7.3.12 Compliance Procedures

- a. Compliance with Condition 7.3.3 is assumed to be achieved by the work practices inherent in operation of a natural gas-fired equipment, thus no compliance procedures are set in this permit addressing this regulation.
- b. To determine compliance with Condition 5.5.1 emissions from the affected boilers and makeup air units shall be based on the emission factors listed below:

<u>Pollutant</u>	Natural Gas Emission Factors for Combustion Units (<10 mmBtu/hr) <u>(lb/mmscf)</u>
NO <sub>x</sub>	100
PM	7.6
SO <sub>2</sub>	0.6
VOM	5.5
CO	84

These are the emission factors for uncontrolled natural gas combustion in boilers, Tables 1.4-1, 1.4-2, and 1.4-3, AP-42, Volume I, Supplement F, October, 1996.

Boiler Emissions (lb) = (Natural Gas Consumed, ft<sup>3</sup>) x  
(The Appropriate Emission Factor)

## 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 30, 1998 (the date of issuance of the draft permit) unless this permit has been modified to reflect such new requirements.

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

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

### 8.3 Emissions Trading Programs

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

### 8.4 Operational Flexibility/Anticipated Operating Scenarios

#### 8.4.1 Changes Specifically Addressed by Permit

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

#### 8.4.2 Changes Requiring Prior Notification

The Permittee is authorized to make physical or operational changes without applying for or obtaining an amendment to this permit, provided that the changes do not constitute a modification under Title I of the CAA,

emissions will not exceed the emissions allowed under this permit following implementation of the physical or operational change and 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 [Section 39.5(12)(a) of the Act]. This notice shall:

- a. Describe the physical or operational change;
- b. Identify the schedule for implementing the physical or operational change;
- c. 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;
- d. Provide emission calculations which demonstrate that the physical or operational change will not result in a modification; and
- e. 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 data, 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

A report summarizing required monitoring 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 (MC 40)  
Bureau of Air  
Compliance Section  
P.O. Box 19276  
Springfield, Illinois 62794-9276
  - ii. Illinois EPA - Air Regional Field Office  
  
Illinois Environmental Protection Agency  
Division of Air Pollution Control  
Eisenhower Tower  
1701 South First Avenue  
Maywood, Illinois 60153
  - 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 (AR - 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.

## 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)(p)(ii) of the Act]:

- a. Enter upon the Permittee's premises where an actual or potential emission unit is located; where any regulated equipment, operation, or activity is located or where records must be kept under the conditions of this permit;

- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect during hours of operation any sources, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- d. Sample or monitor any substances or parameters at any location:
  - i. At reasonable times, for the purposes of assuring permit compliance; or
  - ii. As otherwise authorized by the CAA, or the Act.
- e. Obtain and remove samples of any discharge or emission of pollutants; 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.

#### 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 compliance certifications annually or more frequently as specified in the applicable requirement or by permit condition.

- a. The certifications shall include descriptions of means to monitor the compliance of the source including emissions limitations, standards, and work practices in accordance with applicable requirements and permit conditions. 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)(l), (n), and (o) of the Act].

10.0 ATTACHMENTS

10.1 Attachment 1 Example Certification by a Responsible Official

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

Signature:

\_\_\_\_\_

Name:

\_\_\_\_\_

Official Title:

\_\_\_\_\_

Telephone No.:

\_\_\_\_\_

Date Signed:

\_\_\_\_\_

KLS:jar