

217/782-2113

"REVISED"  
TITLE V - CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT  
and  
TITLE I PERMIT<sup>1</sup>

PERMITTEE

MBL (USA) Corporation  
Attn: C. J. Conrad  
601 Dayton Road  
Ottawa, Illinois 61350

<u>Application No.:</u> 95090090	<u>I.D. No.:</u> 099825AAH
<u>Applicant's Designation:</u> RUBPLASTBELT	<u>Date Received:</u> September 07, 1995
<u>Operation of:</u> Manufacturing Processes for Rubber Belts	
<u>Date Issued:</u> August 27, 2002	<u>Expiration Date</u> <sup>2</sup> : August 27, 2007
<u>Source Location:</u> 601 Dayton Road, Ottawa, LaSalle County, Dayton Township	
<u>Responsible Official:</u> C.J. Conrad	

This permit is hereby granted to the above-designated Permittee to OPERATE manufacturing processes for rubber belts and fuel combustion units pursuant to the above referenced permit application. This permit is subject to the conditions contained herein.

Revision Date Received: February 6, 2004  
Revision Date Issued: May 8, 2006  
Purpose of Revision: Minor Modification

This minor modification consists of incorporating Construction Permit 04020014 language for Grinder No. 9, and establishing language/limitations for the addition of Unit 12 (kneader) operations.

This document only contains those portions of the entire CAAPP permit that have been revised as a result of this permitting action. If a conflict exists between this document and previous versions of the CAAPP permit, this document supercedes those terms and conditions of the permit for which the conflict exists. The previous permit issued August 27, 2002 is incorporated herein by reference.

Please attach a copy of this amendment and the following revised pages to the front of the most recently issued entire permit.

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

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

DES:SIS:psj

cc: Illinois EPA, FOS, Region 2

<sup>1</sup> This permit may contain terms and conditions which address the applicability, and compliance if determined applicable, of Title I of the CAA and regulations promulgated thereunder, including 40 CFR 52.21 - federal PSD and 35 IAC Part 203 - Major Stationary Sources Construction and Modification. Any such terms and conditions are identified within this permit.

<sup>2</sup> Except as provided in Condition 8.7 of this permit.

TABLE OF CONTENTS

	<u>PAGE</u>
1.0 SOURCE IDENTIFICATION	4
1.1 Source	
1.2 Owner/Parent Company	
1.3 Operator	
1.4 General Source Description	
2.0 LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT	6
3.0 INSIGNIFICANT ACTIVITIES	7
3.1 Identification of Insignificant Activities	
3.2 Compliance with Applicable Requirements	
3.3 Addition of Insignificant Activities	
4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE	10
5.0 OVERALL SOURCE CONDITIONS	12
5.1 Source Description	
5.2 Applicable Regulations	
5.3 Non-Applicability of Regulations of Concern	
5.4 Source-Wide Operational and Production Limits and Work Practices	
5.5 Source-Wide Emission Limitations	
5.6 General Recordkeeping Requirements	
5.7 General Reporting Requirements	
5.8 General Operational Flexibility/Anticipated Operating Scenarios	
5.9 General Compliance Procedures	
5.10 Special Permit Shield	
6.0 NOT APPLICABLE TO THIS PERMIT	18
7.0 UNIT SPECIFIC CONDITIONS	19
7.1 Unit 01: Banbury Mixer Process	
Control: Bag Filter (BF-3), Bag Filter (BF-1)	
7.2 Unit 02: VL Building Machines (BM - 1,2)	
Control: None	
7.3 Unit 03: Cog Press (CP-1)	
Control: None	
7.4 Unit 04: RE/RIB Building Machines (BM 3,4,5)	
Control: None	
7.5 Unit 05: RE/RIB Pot Curing (PC-3)	
Control: None	
7.6 Unit 06: RE/RIB Finishing	
Control: Cyclones 1 & 2/Bag Filter 2, Cyclone 4/Bag Filter	
2, Cyclone 1 & 2/Bag Filter 2, Cyclone 1 & 2/Bag Filter	
2, Cyclone 4/Bag Filter 2, Cyclone 5/Bag Filter 2	
7.7 Unit 07: T/G Release Agent Spray Machine (SPR-2)	
Control: None	

7.8	Unit 08: T/G Pot Curing (PC-4) Control: None	
7.9	Unit 09: T/G Grinding Control: Cyclone 3/Bag Filter 2	
7.10	Unit 10: Fuel Combustion Units Control: None	
7.11	Unit 11: Gasoline Storage Tank Control: None	
7.12	Unit 12: Kneader Control: Bag Filter	
8.0	GENERAL PERMIT CONDITIONS	59
8.1	Permit Shield	
8.2	Applicability of Title IV Requirements	
8.3	Emissions Trading Programs	
8.4	Operational Flexibility/Anticipated Operating Scenarios	
8.5	Testing Procedures	
8.6	Reporting Requirements	
8.7	Obligation to Comply with Title I Requirements	
9.0	STANDARD PERMIT CONDITIONS	65
9.1	Effect of Permit	
9.2	General Obligations of Permittee	
9.3	Obligation to Allow Illinois EPA Surveillance	
9.4	Obligation to Comply with Other Requirements	
9.5	Liability	
9.6	Recordkeeping	
9.7	Annual Emissions Report	
9.8	Requirements for Compliance Certification	
9.9	Certification	
9.10	Defense to Enforcement Actions	
9.11	Permanent Shutdown	
9.12	Reopening and Reissuing Permit for Cause	
9.13	Severability Clause	
9.14	Permit Expiration and Renewal	
10.0	ATTACHMENTS	
10.1	Attachment 1 - Emissions of Particulate Matter from New Process Emission Units	1-1
10.2	Attachment 2 - Example Certification by a Responsible Official	2-1
10.3	Attachment 3 - Guidance on Revising This Permit	3-1
10.4	Attachment 4 - Form 199-CAAPP, Application For Construction Permit (For CAAPP Sources Only)	4-1
10.5	Attachment 5 - Guidance on Renewing This Permit	5-1

## 1.0 SOURCE IDENTIFICATION

### 1.1 Source

MBL (USA) Corporation  
601 Dayton Road  
Dayton, Illinois 61350  
815/434-1282

I.D. No.: 099825AAH  
Standard Industrial Classification: 3052, Rubber and Plastics  
Hose and Belting

### 1.2 Owner/Parent Company

MBL (USA) Corporation  
920 Lombard Road  
Lombard, Illinois 60146

### 1.3 Operator

MBL (USA) Corporation  
601 Dayton Road  
Dayton, Illinois 61350

C.J. Conrad  
815/434 -1282

### 1.4 General Source Description

MBL (USA) Corporation is located on 601 Dayton Road, Dayton, Illinois. The facility manufactures rubber drive belts including V-belts, rib belts, and timing belts for industrial and automotive uses. Rubber compounds used in the manufacturing process include styrene butadiene rubber (SBR), natural rubber (SIR), hypalon and neoprene which are formulated on site, and high butyl rubber (HNBR) which is preprocessed. Source Wide Production Process: The raw rubber, carbon black, process oil, and other raw materials are mixed from bags and bins in the Banbury mixer. The mixed rubber batches are rolled into long continuous sheets by feeding the mixed rubber into either the kneader and the SPM or the open roll. It is then fed to the 3-roll calendar, which sets the thickness of the sheet and, in some cases, impregnates the rubber into fabric. From the calendar, the rubber sheet is cut to width in the preparation area. The prepared rubber sheets are processed through one of the three lines: 1. VL (Long V-belts), 2. RE/RIB (Ribbed belts), 3. T/G (Timing belts). Each line includes building, curing, and finishing operations. On the RE/RIB and T/G lines, building consists of applying the rubber sheet to a cylindrical drum to form sleeves. On the VL line, the sleeves are generally cut into individual belts during building. On the RE/RIB and T/G lines, the sleeves on the drums are cured in pots (one sleeve per pot) with steam. Through the use of solvents at spray release

machines, the drums are sprayed with a solvent mixture to facilitate the removal of the sleeves after curing.

Curing uses steam provided by the boilers to cure the rubber. All three lines utilize curing pots to treat the rubber. The VL line may alternately use platen presses that pressure cure the rubber. The cog press may be utilized to create rubber matrix or cog belts.

Following curing, the belts are finished. VL belts may be dyed in the dye tank. The T/G sleeves are ground on the T/G grinding machines and then are cut into belts. The RE/RIB belts are sent to grinding and sanding machines.

Other insignificant process operations include belt coding with inkjet printers, belt labeling, label coating with varnish, and belt powdering with talc (to reduce tackiness).

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
BAT	Best Available Technology
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
CO	Carbon Monoxide
ERMS	Emissions Reduction Market System
ft <sup>3</sup>	Cubic feet
Mft <sup>3</sup>	Million cubic feet
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
kg	kilogram
kW	kilowatts
LAER	Lowest Achievable Emission Rate
lb	pound
MACT	Maximum Achievable Control Technology
mmBtu	Million British thermal units
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
RMP	Risk Management Plan
SO <sub>2</sub>	Sulfur Dioxide
TOC	Total Organic Compound
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
VOL	Volatile organic liquid
VOM	Volatile Organic Material
Yr	year

### 3.0 INSIGNIFICANT ACTIVITIES

#### 3.1 Identification of Insignificant Activities

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

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

Dye Tank (DT-1)  
RE-Rib Spray Rel. (SPR-1)  
Calendar (CAL-1)  
VL Pot Curing (PC-1)  
VL Press Curing (PP-1)  
TG Grinding (TG)  
Warehouse Heater (WH)  
Jacket Curing Pot

- 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:

Powder Station

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

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

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

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

Coating operations (excluding powder, architectural and industrial maintenance coating) with aggregate VOM usage that never exceeds 15 lbs/day from all coating lines at the source, including VOM from coating, dilutents, and cleaning materials [35 IAC 201.210(a)(13)].

Printing operations with aggregate organic solvent usage that never exceeds 750 gallons per year from all printing lines at the source, including organic solvent from inks, dilutents, fountain solutions, and cleaning materials [35 IAC 201.210(a)(14)].

Gas turbines and stationary reciprocating internal combustion engines of less than 112 kW (150 horsepower) power output [35 IAC 201.210(a)(15)].

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
Unit 01: Banbury Mixer Process	Weight-Out Station for Dry Ingredients	5/87	Bag Filter (BF-3)
	Weight-Out and Banbury Mixer for Wet and Dry Ingredients	5/87	Bag Filter (BF-1)
Unit 02: VL Building Machines (BM - 1,2)	Production of Uncured Long Rubber V - Belts	5/87	None
Unit 03: Cog Press (CP-1)	Press Used to Produce Rubber Matrix and Cog Belts	5/87	None
Unit 04: RE/RIB Building Machines (BM 3,4,5)	Cylindrical Drums and Associated Hardware	5/87	None
Unit 05: RE/RIB Pot Curing (PC-3)	Curing Pots for VL Belts	5/87	None
Unit 06: RE/RIB Finishing	Sanders 1 & 2	5/87	Cyclones 1 & 2 Bag Filter 2
	Cutter 1		Cyclone 4 Bag Filter 2
	Cutter 2		Cyclone 1 & 2 Bag Filter 2
	Grinders 1, 2, 6 & 7		Cyclone 1 & 2 Bag Filter 2
	Grinder 3 & 8		Cyclone 4 Bag Filter 2
	Grinders 4 & 5 POC Trimmer		Cyclone 5 Bag Filter 2
	Grinder No. 9	3/2004	Cyclones (CY-1 & CY-2), Bag Filter 2 (BF-2)

Emission Unit	Description	Date Constructed	Emission Control Equipment
Unit 07: T/G Release Agent Spray Machine (SPR-2)	Application of Release Agent	12/89	None
Unit 08: T/G Pot Curing (PC-4))	Curing Pots to Produce Cured Rubber Sleeves	5/87 6/2000*	None
Unit 09: T/G Grinding	Grinding Machines	12/89	Cyclone 3 Bag Filter 2
Unit 10: Fuel Combustion Units	Boilers: Two Natural Gas-Fired Boilers Maximum Heat Input Capacity: 15.7 mmBtu/hr	5/87	None
Unit 11: Gasoline Storage Tank	560 Gallon Gasoline Storage Tank with Submerged Loading Pipe	----	None
Unit 12: Kneader	Kneader	2005	Bag Filter

\* Addition of Eighth T/G Curing Pot (Permit Application No. 00050048)

## 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 HAPs 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.

#### 5.2.4 Ozone Depleting Substances

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

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

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

#### 5.2.5 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.

- 5.2.6 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.

#### 5.2.7 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.

#### 5.2.9 CAM Plan

This stationary source has a pollutant-specific emissions unit that is subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources. The source must submit a CAM plan for each affected pollutant-specific emissions unit upon application for renewal of the initial CAAPP permit, or upon a significant modification to the CAAPP permit for the construction or modification of a large pollutant-specific emissions unit which has the potential post-control device emissions of the applicable regulated air pollutant that equals or exceeds major source threshold levels.

#### 5.3 Non-Applicability of Regulations of Concern

The source is not subject to National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR 63, Subpart W, NESHAP for Epoxy Resins Production and Non-Nylon Polyamides Production, since the facility is not engaged in the manufacture of basic liquid epoxy resins and manufacturing of wet strength resins.

#### 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)	22.7
Sulfur Dioxide (SO <sub>2</sub> )	0.04
Particulate Matter (PM)	1.19
Nitrogen Oxides (NO <sub>x</sub> )	7.26
HAP, not included in VOM or PM	92.4
Total	123.59

### 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

Other source-wide emission limitations are not set for this source pursuant to either the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21, Illinois EPA rules for Major Stationary Sources Construction and Modification, 35 IAC Part 203, or Section 502(b)(10) of the CAA. However, there may be unit specific emission limitations set forth in Section 7 of this permit pursuant to these rules.

## 5.6 General Recordkeeping Requirements

### 5.6.1 Emission Records

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

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

5.6.2 Records for VOM and HAP emissions

- a. Total annual emissions of each individual HAP and of total HAPs on a calendar year basis for the applicable emission units covered by Section 7 (Unit Specific Conditions) of this permit.
- b. Total monthly and running 12 month total VOM emissions for the whole source based on the applicable emission units covered by Section 7 (Unit Specific Conditions) of this permit.

5.6.3 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.

5.8 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.

5.10 Special Permit Shield

6.0 NOT APPLICABLE TO THIS PERMIT

7.0 UNIT SPECIFIC CONDITIONS

7.1 Unit 01: Banbury Mixer Process  
Control: Bag Filters

7.1.1 Description

The Banbury mixer station weighs out and combines raw rubber, carbon black, process oil and other raw materials under agitation and pressure to produce compounded rubber. Regulated pollutants emitted from this process include volatile organic material (VOM), hazardous air pollutants (HAPs), and particulate matter (PM). Emissions vary based on the rubber formula; however, PM is the predominant pollutant from this process under all conditions. The Banbury mixer is a batch process and is also the limiting factor for process throughput to all other process units source wide.

7.1.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
Banbury Mixer Process	Weight-Out Station for Dry Ingredients	5/87	Bag Filter (BF-3)
	Weight-Out and Banbury Mixer for Wet and Dry Ingredients	5/87	Bag Filter (BF-1)

7.1.3 Applicability Provisions and Applicable Regulations

- a. The "affected mixer" for the purpose of these unit-specific conditions, is the unit described in 7.1.2 and 7.1.3.
- b. The affected mixer is subject to 35 IAC 212.321, which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit for 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, which, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of this section (See Attachment 2). [35 IAC 212.321(a)]

c. The affected mixer is subject to 35 IAC 215.301, which provides that no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from any emission source, except as provided in Sections 215.302, 215.303, 215.304 and the following exception: If no odor nuisance exists the limitation of this Subpart shall apply to photochemically reactive material. [35 IAC 215.301]

7.1.4 Non-Applicability of Regulations of Concern

N/A

7.1.5 Operational and Production Limits and Work Practices

None

7.1.6 Emission Limitations

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

Equipment operation and emissions of particulate matter shall not exceed the limits in the following table.

<u>Equipment</u>	<u>Operating Rate (Lb/Hr)</u>	<u>Operating Hours (Hr/Yr)</u>	<u>Emission (Lb/Hr)</u>	<u>Limits (T/Yr)</u>
Banbury BB-1 with Bag Filters (BF-1) and (BF-3)	584	8,760	1.32	5.8

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

The above limitations contain revisions to previously issued Permit 86120015. The source has requested that the Illinois EPA establish conditions in this permit that allow various refinements from the conditions of this aforementioned permit, consistent with the information provided in the CAAPP application. The source has requested these revisions and has addressed the applicability and compliance of Title I of the CAA, specifically 35 IAC Part 203, Major Stationary Sources Construction and Modification and/or 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits continue to ensure that the construction and/or modification addressed in this permit does not constitute a new major source or major modification pursuant to these rules. These limits are the primary enforcement mechanism

for the equipment and activities permitted in this permit and the information in the CAAPP application contains the most current and accurate information for the source. Specifically, the operating rate, operating hours, and emission limits have been revised. [T1R]

7.1.7 Operating Requirements

The owner or operator shall follow good operating practices for the bag filters including periodic inspection, routine maintenance, repair of defects and visual emission checks.

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 the affected mixer to demonstrate compliance with conditions 5.5.1, 7.1.3, and 7.1.6 pursuant to Section 39.5(7) (b) of the Act:

- a. Process Throughput, lb/hr
- b. Operating hours per year

7.1.10 Reporting Requirements

The Permittee shall notify the Illinois EPA Compliance Section of noncompliance of the affected mixer with the permit requirements within 30 days of the violation pursuant to Section 39.5(7) (f) (ii) of the Act. Reports shall describe the probable cause of such deviations and any corrective actions or preventive measures taken.

7.1.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.1.12 Compliance Procedures

- a. Compliance of the affected mixer with Conditions 7.1.3(c) shall be based on the recordkeeping requirements of 7.1.9, and by the use of the emission factors and formula listed below:

For VOM emissions:

$$\text{VOM (lb/hr)} = (2.15 \times 10^{-4} \text{ lb VOM/lb Processed}) * \text{x} \\ (\text{Process Throughput, lb/hr})$$

- b. Compliance of the affected mixer with conditions 7.1.3(b) and 7.1.6 shall be based on the recordkeeping requirements of 7.1.9, and by the use of the emission factors and formula listed below:

For Compliance with Condition 7.1.3(b):

$$\text{PM (lb/hr)} = (4.98 \times 10^{-3} \text{ lb PM/lb Processed})^* \times \text{Process Throughput, lb/hr} \times (1 - \text{Overall Control (\%)}^{**})$$

For Compliance with Condition 7.1.6:

$$\text{PM (tons per year)} = [(4.98 \times 10^{-3} \text{ lb PM/lb Processed}) \times \text{Process Throughput, lb/hr} \times \text{Operating hours per year}] / 2,000 \times (1 - \text{Overall Control (\%)}^{**})$$

- c. HAP emissions shall be calculated by use of the following emission factor and formula listed, along with recordkeeping requirements of 7.1.9:

$$\text{HAP (tons per year)} = [(5.91 \times 10^{-5} \text{ lb HAP/lb Processed})^* \times (\text{Process Throughput, lb/hr} \times \text{Operating hours per year})] / 2,000$$

\* As provided in the Title V application

\*\* 95 % as provided in the Title V application

Note: HAPs from the affected mixer consist of compounds 2-6, 8, 11, 12, 15, 18, and 22 per USEPA's Clearinghouse for Inventories and Emission Factors (CHIEF) website, Chapters 4.12, Manufacture of Rubber Products.

7.2 Unit 02: VL Building Machines  
Control: None

7.2.1 Description

In the VL building machine operation, rubber sleeve and toluene are used to produce uncured long rubber V-belts. Toluene (VOM and HAP) is the only contaminant emitted, and emissions vary based on the rate of process throughput. No heat is applied to the rubber during this operation. The VL Building is an independent process that follows the calendar and precedes curing.

7.2.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
VL Building Machines (BM - 1,2)	Production of Uncured Long Rubber V - belts	5/87	None

7.2.3 Applicability Provisions and Applicable Regulations

- a. The "affected VL Building Machines" for the purpose of these unit-specific conditions, is described in conditions 7.2.1 and 7.2.2.
- b. The affected VL Building Machines are subject to 35 IAC 215.301, which provides that no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from any emission source, except as provided in Sections 215.302, 215.303, 215.304 and the following exception: If no odor nuisance exists the limitation of this Subpart shall apply to photochemically reactive material. [35 IAC 215.301]
- c. The affected VL building machines are subject to 35 IAC 212.321, which provides that:  
  
No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced on or after April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission 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

N/A

7.2.5 Operational and Production Limits and Work Practices

None

7.2.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected VL Building Machines are subject to the following:

Operation of equipment and emissions of volatile organic material (VOM) and methylene chloride (MC) shall not exceed the following. Amount used is amount emitted.

<u>Equipment</u>	Operating	VOM Emissions	
	Hours (Hr/Yr)	(Lb/Hr)	(T/Yr)
Building Machines (BM #1, #2)	8760	8.0	16.9

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

The above limitations contain revisions to previously issued Permit 86120015. The source has requested that the Illinois EPA establish conditions in this permit that allow various refinements from the conditions of this aforementioned permit, consistent with the information provided in the CAAPP application. The source has requested these revisions and has addressed the applicability and compliance of Title I of the CAA, specifically 35 IAC Part 203, Major Stationary Sources Construction and Modification and/or 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits continue to ensure that the construction and/or modification addressed in this permit does not constitute a new major source or major modification pursuant to these rules. These limits are the primary enforcement mechanism for the equipment and activities permitted in this permit and the information in the CAAPP application contains the most current and accurate information for the source. Specifically, The operating hours and emission limits were revised. [T1R]

7.2.7 Operating 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 of the affected VL Building Machines to demonstrate compliance with 5.5.1, 7.2.3, and 7.2.6, pursuant to Section 39.5(7) (b) of the Act:

Quantity of toluene going into and out of process (units as appropriate per mass balance calculations).

7.2.10 Reporting Requirements

The Permittee shall notify the Illinois EPA Compliance Section of noncompliance of the affected VL Building Machines with the permit requirements within 30 days of the violation pursuant to Section 39.5(7) (f) (ii) of the Act. Reports shall describe the probable cause of such deviations and any corrective actions or preventive measures taken.

7.2.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.2.12 Compliance Procedures

- a. Compliance with the emission limits in Conditions 5.5.1, 7.2.3, and 7.2.6 shall be based on the recordkeeping requirements in Condition 7.2.9 and mass balance calculations.
- b. Compliance with Condition 7.2.3(c) is assumed to be achieved by the work-practices inherent in operation of the affected VL building machines, so that no compliance procedures are set in this permit addressing this regulation.

7.3 Unit 03: Cog Press (CP-1)  
Control: None

7.3.1 Description

The cog press process consists of a press which produces rubber matrix and cog belts. Toluene is used to adhere the rubber to the matrix. Toluene is the only contaminant emitted, and emissions vary based on the rate of process throughput. The cog press process is an independent process that precedes building and curing.

7.3.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
Cog Press (CP-1)	Press Used to Produce Rubber Matrix and Cog Belts	5/87	None

7.3.3 Applicability Provisions and Applicable Regulations

- a. The "affected cog press" for the purpose of these unit-specific conditions, is the unit described in 7.3.1 and 7.3.2.
- b. The affected cog press is subject to 35 IAC 215.301, which provides that no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from any emission source, except as provided in Sections 215.302, 215.303, 215.304 and the following exception: If no odor nuisance exists the limitation of this Subpart shall apply to photochemically reactive material. [35 IAC 215.301]
- c. The affected cog press is subject to 35 IAC 212.321, which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced on or after April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission 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

N/A

7.3.5 Operational and Production Limits and Work Practices

None

7.3.6 Emission Limitations

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

Emission limits for VOM are not set for the affected cog press as potential to emit in absence of permit limit is less than the significant and major source thresholds for this pollutant pursuant to Title I of the CAA, specifically the federal rules for the Prevention of Significant Deterioration (PSD), 40 CFR 52.21.

7.3.7 Operating Requirements

None

7.3.8 Inspection 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 Cog Press to demonstrate compliance with 5.5.1, 7.3.2, and 7.3.6, pursuant to Section 39.5(7)(b) of the Act:

- a. Annual cog press toluene allocation (lb/yr); and
- b. Cog press annual operating hours per year.

7.3.10 Reporting Requirements

The Permittee shall notify the Illinois EPA Compliance Section of noncompliance of the affected cog press with the permit requirements within 30 days of the violation pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations and any corrective actions or preventive measures taken.

7.3.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

### 7.3.12 Compliance Procedures

- a. Compliance of the affected mixer with Conditions 7.3.3(b) shall be based on the recordkeeping requirements of 7.3.9, and by the use of the emission factors and formula listed below:

For VOM emissions:

$$\text{VOM (lb/hr)} = (\text{Cog Press Annual Toluene Allocation, lb/yr}) / (\text{Operating hours per year})$$

For HAP emissions:

$$\text{VOM/HAP (tons per year)} = [(\text{Cog Press Annual Toluene Allocation, lb/yr}) / (\text{Operating hours per year})] / 2,000$$

- b. Compliance with Condition 7.3.3(c) is assumed to be achieved by the work-practices inherent in operation of the affected cog press, so that no compliance procedures are set in this permit addressing this regulation.

7.4 Unit 04: RE/RIB Building Machines (BM 3,4,5)  
Control: None

7.4.1 Description

In the RE/RIB Building operation, rubber sheet and toluene are applied to a cylindrical drum to produce uncured rubber sleeves. The cylindrical drums and associated hardware are called building machines. Toluene is the only contaminant emitted, and emission may vary based on the rate of process throughput. Building is an independent process operation that follows the calendar and precedes the curing pots.

7.4.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
RE/RIB Building Machines (BM 3,4,5)	Cylindrical Drums and Associated Hardware	5/87	None

7.4.3 Applicability Provisions and Applicable Regulations

- a. The "affected building machines" for the purpose of these unit-specific conditions, are the units described in conditions 7.4.1 and 7.4.2.
- b. The affected building machines are subject to 35 IAC 215.301, which provides that no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from any emission source, except as provided in Sections 215.302, 215.303, 215.304 and the following exception: If no odor nuisance exists the limitation of this Subpart shall apply to photochemically reactive material. [35 IAC 215.301]
- c. The affected building machines are subject to 35 IAC 212.321, which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced on or after April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission 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)]

7.4.4 Non-Applicability of Regulations of Concern

N/A

7.4.5 Operational and Production limits and Work Practices

None

7.4.6 Emission Limitations

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

Emission limits for VOM are not set for the affected building machines as potential to emit in absence of permit limit is less than the significant and major source thresholds for this pollutant pursuant to Title I of the CAA, specifically the federal rules for the Prevention of Significant Deterioration (PSD), 40 CFR 52.21.

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 building machines to demonstrate compliance with conditions 5.5.1 and 7.4.3(b), pursuant to Section 39.5(7)(b) of the Act:

Quantity of Toluene going into and out of process (units as appropriate for mass balance calculations).

7.4.10 Reporting Requirements

The Permittee shall notify the Illinois EPA Compliance Section of noncompliance of the affected building machines with the permit requirements within 30 days of the violation pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations and any corrective actions or preventive measures taken.

7.4.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

#### 7.4.12 Compliance Procedures

- a. Compliance with the emission limits in Conditions 5.5.1, and 7.4.3(b) shall be based on the recordkeeping requirements in Condition 7.4.9 and mass balance calculations.
- b. Compliance with Condition 7.4.3(c) is assumed to be achieved by the work-practices inherent in operation of the affected building machines so that no compliance procedures are set in this permit addressing this regulation.

7.5 Unit 05: RE/RIB Pot Curing (PC-3)  
Control: None

7.5.1 Description

VL belts may alternatively be cured in curing pots, depending on the size of the belt. This process involves using a curing pot (autoclave) to produce cured rubber V-belts without the use of drums and spray release. Contaminants emitted include VOM and HAPs. Emissions vary based on the rubber compounds used and the rate of process throughput. VL pot curing is an independent process that follows the VL covering machines and precedes the dye tank.

7.5.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
RE/RIB Pot Curing (PC-3)	Curing Pots for VL Belts	5/87	None

7.5.3 Applicability Provisions and Applicable Regulations

- a. The "affected RE/RIB pot curing" for the purpose of these unit-specific conditions, is the unit described in conditions 7.5.1 and 7.5.2.
- b. The affected RE/RIB pot curing is subject to 35 IAC 215.301, which provides that no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from any emission source, except as provided in Sections 215.302, 215.303, 215.304 and the following exception: If no odor nuisance exists the limitation of this Subpart shall apply to photochemically reactive material. [35 IAC 215.301]
- c. The affected RE/RIB pot curing is subject to 35 IAC 212.321, which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced on or after April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission 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

N/A

7.5.5 Operational and Production Limits and Work Practices

None

7.5.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected RE/RIB pot curing is subject to the following:

Emission limits for VOM are not set for the affected RE/RIB pot curing as potential to emit in absence of permit limit is less than the significant and major source thresholds for this pollutant pursuant to Title I of the CAA, specifically the federal rules for the Prevention of Significant Deterioration (PSD), 40 CFR 52.21.

7.5.7 Operating Requirements

None

7.5.8 Inspection 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 RE/RIB pot curing to demonstrate compliance with conditions 5.5.1 and 7.5.3(b), pursuant to Section 39.5(7)(b) of the Act:

- a. Process throughput, lb/hr; and
- b. Operating hours per year.

7.5.10 Reporting Requirements

The Permittee shall notify the Illinois EPA Compliance Section of noncompliance of the affected RE/RIB pot curing with the permit requirements within 30 days of the violation pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations and any corrective actions or preventive measures taken.

7.5.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

#### 7.5.12 Compliance Procedures

- a. Compliance of the affected RE/RIB pot curing with Conditions 7.5.3(b) shall be based on the recordkeeping requirements of 7.5.9, and by the use of the emission factors and formula listed below:

For VOM Emissions:

$$\text{VOM (lb/hr)} = (1.56 \times 10^{-4} \text{ lb VOM/lb Processed})^* \times (\text{Process Throughput, lb/hr})$$

- b. HAP emissions shall be based on the recordkeeping requirements of 7.5.9 and calculated by use of the following emission factor and formula listed below:

$$\text{HAP (tons per year)} = [(6.04 \times 10^{-3} \text{ lb HAP/lb Processed})^{**} \times (\text{Process Throughput, lb/hr}) \times (\text{Operating hours per year})] / 2,000$$

\* As provided in the Title V application

\*\* As provided in the Title V application

Note: HAPs from the RE/RIB pot curing consist of compounds 4-6, 8, 11, 15, 18, and 22 per USEPA's Clearinghouse for Inventories and Emission Factors (CHIEF) website, Chapters 4.12, Manufacture of Rubber Products.

- c. Compliance with Condition 7.5.3(c) is assumed to be achieved by the work-practices inherent in operation of the affected RE-RIB pot curing, so that no compliance procedures are set in this permit addressing this regulation.

7.6 Unit 06: RE/RIB Finishing  
Control: Bag Filter 2, Cyclones 1, 2, 4, and 5

7.6.1 Description

The last step in the RE/RIB line is the finishing process that involves grinders, sanders, trimmers and square-cutting machines to remove excess rubber form belts. Contaminants emitted include VOM, HAPs and PM. Emissions vary based on the rubber compounds used and the rate of process throughput.

7.6.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
RE/RIB Finishing	Sanders 1 & 2	5/87	Cyclones 1 & 2 Bag Filter 2
	Cutter 1		Cyclone 4 Bag Filter 2
	Cutter 2		Cyclone 1 & 2 Bag Filter 2
	Grinders 1, 2, 6 & 7		Cyclone 1 & 2 Bag Filter 2
	Grinder 3 & 8		Cyclone 4 Bag Filter 2
	Grinders 4 & 5		Cyclone 5 Bag Filter 2
	POC Trimmer Grinder No. 9*	3/2004	Cyclones (CY-1 & CY-2) Bag Filter 2 (BF-2)

7.6.3 Applicability Provisions and Applicable Regulations

- a. The "RE/RIB Finishing" for the purpose of these unit-specific conditions, is the unit described in 7.6.2 and 7.6.3.

- b. The RE/RIB Finishing is subject to 35 IAC 212.321, which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit for 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, which, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of this section (See Attachment 2). [35 IAC 212.321(a)]

- c. The RE/RIB Finishing is subject to 35 IAC 215.301, which provides that no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from any emission source, except as provided in Sections 215.302, 215.303, 215.304 and the following exception: If no odor nuisance exists the limitation of this Subpart shall apply to photochemically reactive material. [35 IAC 215.301]

7.6.4 Non-Applicability of Regulations of Concern

N/A

7.6.5 Operational and Production Limits and Work Practices

None

7.6.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the RE/RIB Finishing is subject to the following:

- a. Equipment operation and emissions of particulate matter shall not exceed the limits in the following table.

	Operating Rate (Lb/Hr)	Operating Hours (Hr/Yr)	Emission Limits (Lb/Hr)	Limits (T/Yr)
RE/RIB Finishing	320 <sup>b</sup>	8,760	0.955 <sup>a, b</sup>	4.18

<sup>a</sup> Allowable per §212.321

<sup>b</sup> Emissions from one control device; process weight rate determined from combined sources

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

The above limitations contain revisions to previously issued Permit 86120015. The source has requested that the Illinois EPA establish conditions in this permit that allow various refinements from the conditions of this aforementioned permit, consistent with the information provided in the CAAPP application. The source has requested these revisions and has addressed the applicability and compliance of Title I of the CAA, specifically 35 IAC Part 203, Major Stationary Sources Construction and Modification and/or 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits continue to ensure that the construction and/or modification addressed in this permit does not constitute a new major source or major modification pursuant to these rules. These limits are the primary enforcement mechanism for the equipment and activities permitted in this permit and the information in the CAAPP application contains the most current and accurate information for the source. Specifically, The operating hours and emission limits were revised. [T1R]

- b. Equipment operation and emissions of particulate matter (PM) shall not exceed the limits in the following table. Note: the new grinder No. 9 is included in the "RE/RIB Finishing" operation.

	Operating Rate <u>(Lb/Hr)</u>	Operating Hours <u>(Hr/Yr)</u>	Emission <u>(Lb/Hr)</u>	Limits <u>(Tons/Yr)</u>
RE/RIB Finishing	320 <sup>b</sup>	8,760	0.955 <sup>a, b</sup>	4.18

<sup>a</sup> Allowable pursuant to 35 IAC 212.321

<sup>b</sup> Emissions from one control device; process weight rate determined from combined sources

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

The above limitations were established in Permit 04020014, pursuant to 35 IAC Part 203. These limits ensure that the construction and/or modification addressed in the aforementioned permit does not constitute a new major source or major modification

pursuant to Title I of the CAA, specifically 35 IAC Part 203 [T1].

7.6.7 Operating Requirements

The owner or operator shall follow good operating practices for the bag filters including periodic inspection, routine maintenance, repair of defects and visual emission checks.

7.6.8 Inspection 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 RE/RIB Finishing to demonstrate compliance with conditions 5.5.1, 7.6.3, and 7.6.6 pursuant to Section 39.5(7) (b) of the Act:

- a. Process throughput (lb/hr); and
- b. Operating hours per year.

7.6.10 Reporting Requirements

The Permittee shall notify the Illinois EPA Compliance Section of noncompliance of the affected RE/RIB Finishing with the permit requirements within 30 days of the violation pursuant to Section 39.5(7) (f) (ii) of the Act. Reports shall describe the probable cause of such deviations and any corrective actions or preventive measures taken.

7.6.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.6.12 Compliance Procedures

- a. Compliance of the RE/RIB Finishing with Conditions 7.6.3(c) shall be based on the recordkeeping requirements of 7.6.9, and by the use of the emission factors and formula listed below:

For VOM Emissions:

$$\text{VOM (lb/hr)} = (1.78 \times 10^{-3} \text{ lb VOM/lb Processed}) * \text{x} \\ \text{(Process Throughput, lb/hr)}$$

- b. Compliance of the affected RE/RIB Finishing with conditions 7.6.3(b) and 7.6.6 shall be based on the

recordkeeping requirements of 7.6.9, and by the use of the emission factors and formula listed below:

For Compliance with Condition 7.6.3(b):

$$\text{PM (lb)} = (\text{Process Weight Rate (tons)}) \times (2.26 \times 10^{-4} \text{ lb Part/ton processed}^*) \times (1 - \text{Cyclone efficiency } \%^{**}/100) \times (1 - \text{Bag Filter Efficiency } \%^{***}/100)$$

- c. Compliance of grinder No. 9 with the emission limitations of condition 7.6.6(b) shall be determined by the following formula and emission factor:

$$\text{PM Emissions (pounds)} = [\text{Process Weight Rate (tons)}] \times (2.26 \times 10^{-4} \text{ lb Part/ton processed}) \times (1 - \text{Cyclone efficiency } \%/100) \times (1 - \text{Bag Filter Efficiency } \%/100)$$

- d. HAP emissions shall be calculated by use of the following emission factor and formula listed, along with recordkeeping requirements of 7.6.9:

$$\text{HAP (tons per year)} = [(2.17 \times 10^{-3} \text{ lb HAP/lb Processed})^* \times (\text{Process Throughput, lb/hr})]/2,000$$

\* As provided in the Title V application

\*\* 87 % as provided in the Title V application

\*\*\* 95% as provided in the Title V application

7.7 Unit 07: T/G Release Agent Spray Machine (SPR-2)  
Control: None

7.7.1 Description

The T/G spray release machine operates in a manner similar to the RE/RIB machine. One of two release agents may be used. Either a methylene chloride release agent or a toluene/silicon release agent is used. The release agent compounds are the only contaminants emitted, and emissions vary based on the rate of process throughput. Spray release is an in-line process that precedes building and follows curing.

7.7.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
T/G Release Agent Spray Machine (SPR-2)	Application of Release Agent	12/89	None

7.7.3 Applicability Provisions and Applicable Regulations

- a. The "affected release agent spray machine" for the purpose of these unit-specific conditions, are the units described in conditions 7.7.1 and 7.7.2.
- b. The affected release agent spray machine is subject to 35 IAC 215.301, which provides that no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from any emission source, except as provided in Sections 215.302, 215.303, 215.304 and the following exception: If no odor nuisance exists the limitation of this Subpart shall apply to photochemically reactive material. [35 IAC 215.301]
- c. The affected T/G release agent spray machine is subject to 35 IAC 212.321, which provides that:  
  
No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced on or after April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission 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)]

7.7.4 Non-Applicability of Regulations of Concern

N/A

7.7.5 Operational and Production limits and Work Practices

None

7.7.6 Emission Limitations

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

Operation of equipment and emissions of volatile organic material (VOM) and methylene chloride (MC) shall not exceed the following. Amount used is amount emitted.

<u>Equipment</u>	<u>Operating Hours (Hr/Yr)</u>	<u>Emission Limits</u>			
		<u>VOM (Lb/Hr)</u>	<u>(T/Yr)</u>	<u>MC (Lb/Hr)</u>	<u>(T/Yr)</u>
SPR #2	8,760	8.0	35.0	12.9	56.4

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

The above limitations contain revisions to previously issued Permit 86120015. The source has requested that the Illinois EPA establish conditions in this permit that allow various refinements from the conditions of this aforementioned permit, consistent with the information provided in the CAAPP application. The source has requested these revisions and has addressed the applicability and compliance of Title I of the CAA, specifically 35 IAC Part 203, Major Stationary Sources Construction and Modification and/or 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits continue to ensure that the construction and/or modification addressed in this permit does not constitute a new major source or major modification pursuant to these rules. These limits are the primary enforcement mechanism for the equipment and activities permitted in this permit and the information in the CAAPP application contains the most current and accurate information for the source. Specifically, the hours of operation and the VOM emission limitations have been revised. [T1R]

7.7.7 Operating Requirements

None

7.7.8 Inspection Requirements

None

7.7.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected release agent spray machine to demonstrate compliance with conditions 5.5.1 and 7.7.3(b), pursuant to Section 39.5(7) (b) of the Act:

Quantity of Methylene Chloride and/or Toluene/Silicon Mixture into and out of process (units as appropriate for mass balance calculations).

7.7.10 Reporting Requirements

The Permittee shall notify the Illinois EPA Compliance Section of noncompliance of the affected building machines with the permit requirements within 30 days of the violation pursuant to Section 39.5(7) (f) (ii) of the Act. Reports shall describe the probable cause of such deviations and any corrective actions or preventive measures taken.

7.7.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.7.12 Compliance Procedures

- a. Compliance with the emission limits in Conditions 5.5.1, and 7.7.3(b) shall be based on the recordkeeping requirements in Condition 7.7.9 and mass balance calculations.
- b. Compliance with Condition 7.7.3(c) is assumed to be achieved by the work-practices inherent in operation of the affected T/G release agent spray machine, so that no compliance procedures are set in this permit addressing the regulation.

7.8 Unit 08: T/G Pot Curing (PC-4)  
Control: None

7.8.1 Description

T/G pot curing utilizes curing pots and saturated steam to produce cured rubber sleeves in a manner similar to RE/RIB pot curing. Contaminants emitted include VOM and HAPs. Emissions vary based on the rubber compounds processed. T/G pot curing is a continuous process that follows the T/G building machines and precedes off-line grinding and cutting.

7.8.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed/Modified	Emission Control Equipment
T/G Pot Curing (PC-4)	Curing Pots to Produce Cured Rubber Sleeves	5/87 6/2000*	None

\* Addition of eighth T/G Curing Pot (permit app. 00050048)

7.8.3 Applicability Provisions and Applicable Regulations

- a. The "affected T/G pot curing" for the purpose of these unit-specific conditions, is the unit described in conditions 7.8.1 and 7.8.2.
- b. The affected T/G pot curing is subject to 35 IAC 215.301, which provides that no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from any emission source, except as provided in Sections 215.302, 215.303, 215.304 and the following exception: If no odor nuisance exists the limitation of this Subpart shall apply to photochemically reactive material. [35 IAC 215.301]
- c. The affected T/G pot curing is subject to 35 IAC 212.321, which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced on or after April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission 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)]

7.8.4 Non-Applicability of Regulations of Concern

N/A

7.8.5 Operational and Production Limits and Work Practices

None

7.8.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected T/G pot curing is subject to the following:

Emission limits for VOM are not set for the affected T/G pot curing as potential to emit in absence of permit limit is less than the significant and major source thresholds for this pollutant pursuant to Title I of the CAA, specifically the federal rules for the Prevention of Significant Deterioration (PSD), 40 CFR 52.21.

7.8.7 Operating Requirements

None

7.8.8 Inspection Requirements

None

7.8.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected T/G pot curing to demonstrate compliance with conditions 5.5.1 and 7.8.3(b), pursuant to Section 39.5(7) (b) of the Act:

a. Process throughput (lb/hr); and

b. Operating hours per year.

7.8.10 Reporting Requirements

The Permittee shall notify the Illinois EPA Compliance Section of noncompliance of the affected T/G pot curing with the permit requirements within 30 days of the violation pursuant to Section 39.5(7) (f) (ii) of the Act. Reports shall describe the probable cause of such deviations and any corrective actions or preventive measures taken.

7.8.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.8.12 Compliance Procedures

- a. Compliance of the affected T/G pot curing with Conditions 7.8.3(b) shall be based on the recordkeeping requirements of 7.8.9, and by the use of the emission factors and formula listed below:

For VOM Emissions:

$$\text{VOM (lb/hr)} = (1.56 \times 10^{-4} \text{ lb VOM/lb Processed})^* \times (\text{Process Throughput, lb/hr})$$

- b. HAP emissions shall be based on the recordkeeping requirements of 7.8.9 and calculated by use of the following emission factor and formula listed below:

$$\text{HAP (tons per year)} = [(6.04 \times 10^{-3} \text{ lb HAP/lb Processed})^* \times (\text{Process Throughput, lb/hr}) \times (\text{Operating hours per year})] / 2,000$$

\* As provided in the Title V application

Note: HAPs from the T/G pot curing consist of compounds 4-6, 8, 11, 15, 18, and 22 per USEPA's Clearinghouse for Inventories and Emission Factors (CHIEF) website, Chapters 4.12, Manufacture of Rubber Products.

- c. Compliance with Condition 7.8.3(c) is assumed to be achieved by the work-practices inherent in operation of the affected T/G pot curing, so that no compliance procedures are set in this permit addressing this regulation.

7.9 Unit 09: T/G Grinding  
Control: Bag Filter 2, Cyclone 3

7.9.1 Description

The last step in the T/G line is the finishing process that involves grinders and produces finished timing belts. Contaminants emitted include VOM, HAPs and PM. Emission rates vary based on the rubber compounds used and the rate of process throughput.

7.9.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
T/G Grinding	Grinding Machines	12/89	Cyclone 3 Bag Filter 2

7.9.3 Applicability Provisions and Applicable Regulations

- a. The "affected T/G grinding" for the purpose of these unit-specific conditions, is the unit described in 7.9.2 and 7.9.3.
- b. The affected T/G grinding is subject to 35 IAC 215.301, which provides that no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from any emission source, except as provided in Sections 215.302, 215.303, 215.304 and the following exception: If no odor nuisance exists the limitation of this Subpart shall apply to photochemically reactive material. [35 IAC 215.301]
- c. The affected T/G grinding is subject to 35 IAC 212.681 which provides that Sections 212.321 and 212.322 of this part shall not apply to grinding, woodworking, and sandblasting or shotblasting, which shall be subject to Subpart K of Part 212.

7.9.4 Non-Applicability of Regulations of Concern

N/A

7.9.5 Operational and Production Limits and Work Practices

None

7.9.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the T/G grinding is subject to the following:

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

7.9.7 Operating Requirements

The owner or operator shall follow good operating practices for the bag filters including periodic inspection, routine maintenance, repair of defects and visual emission checks.

7.9.8 Inspection Requirements

None

7.9.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the T/G grinding to demonstrate compliance with conditions 5.5.1, 7.9.3(b) and (c), and 7.9.6 pursuant to Section 39.5(7) (b) of the Act:

- a. Process throughput (lb/hr); and
- b. Operating hours per year.

7.9.10 Reporting Requirements

The Permittee shall notify the Illinois EPA Compliance Section of noncompliance of the affected compound formulation process with the permit requirements within 30 days of the violation pursuant to Section 39.5(7) (f) (ii) of the Act. Reports shall describe the probable cause of such deviations and any corrective actions or preventive measures taken.

7.9.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.9.12 Compliance Procedures

- a. Compliance of the T/G grinding with Conditions 7.9.3(b) shall be based on the recordkeeping requirements of 7.9.9, and by the use of the emission factors and formula listed below:

For VOM Emissions:

$$\text{VOM (lb/hr)} = (1.78 \times 10^{-3} \text{ lb VOM/lb Processed}) * \text{x}$$

(Process Throughput, lb/hr)

- b. Compliance of the affected mixer with conditions 7.9.3(b) and 7.9.6 shall be based on the recordkeeping requirements of 7.9.9, and by the use of the emission factors and formula listed below:

For Compliance with Condition 7.9.3(b):

$$\text{PM (lb)} = (\text{Process Weight Rate (tons)} \times (2.26 \times 10^{-4} \text{ lb Part/ton processed})^* \times (1 - \text{Cyclone efficiency \%}^{**}/100) \times (1 - \text{Bag Filter Efficiency \%}^{***}/100)$$

- c. HAP emissions shall be calculated by use of the following emission factor and formula listed, along with recordkeeping requirements of 7.9.9:

$$\text{HAP (tons per year)} = [(2.17 \times 10^{-3} \text{ lb HAP/lb Processed})^* \times (\text{Process Throughput, lb/hr}) \times (\text{Operating hours per year})]/2,000$$

\* As provided in the Title V application

\*\* 87 % as provided in the Title V application

\*\*\* 95% as provided in the Title V application

7.10 Unit 10: Fuel Combustion Units  
Control: None

7.10.1 Description

Two Natural Gas Fired Boilers:

Utilized to produce process steam for use throughout facility, with a maximum design heat input capacity of 15.726 mmBtu/hr or less, but greater than or equal to 10 mmBtu/hr and constructed, modified or reconstructed before June 9, 1989. Natural gas fired with distillate fuel backup.

7.10.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
Boiler	Two Natural Gas-Fired Boilers Maximum Heat Input Capacity: 15.7 mmBtu/hr	5/87	None

7.10.3 Applicable Provisions and Regulations

- a. The affected fuel combustion units, for the purpose of these unit specific conditions, are the units described in 7.10.2 and 7.10.3.
- b. The emission of carbon monoxide (CO) into the atmosphere from any affected boiler with actual heat input greater than 2.9 MW (10 mmBtu/hr) shall not exceed 200 ppm, corrected to 50 percent excess air. [35 IAC 216.121]
- c. Each affected boiler is also subject to the opacity limits identified in Condition 5.2.2(b).

7.10.4 Non-Applicability of Regulations of Concern

- a. The affected fuel combustion units are not subject to 35 IAC 217.141, because the actual heat input of the affected fuel combustion units are less than 73.2 MW (250 mmBtu/hr).
- b. Pursuant to 35 IAC 215.303, the affected fuel combustion units, i.e., fuel combustion emission unit, is not subject to 35 IAC 218.301, Use of Organic Material.
- c. The affected fuel combustion units are not subject to the Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, 40

CFR 60 Subpart Dc because the boilers were constructed before June 9, 1989 and the warehouse heater is less than 10 mmBtu/hr.

7.10.5 Operational and Production Limits and Work Practices

- a. The affected fuel combustion units shall only be fired by natural gas.
- b. The maximum firing rate of the boiler shall not exceed 15.7 mmBtu/hr.

7.10.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide limitations in Condition 5.5.1, the affected boiler is subject to the following:

Operation of the gas-fired fuel combustion equipment and emissions of nitrogen oxides (NO<sub>x</sub>) and carbon monoxide (CO) shall not exceed the following.

<u>Equipment</u>	<u>Firing Rate (mmBtu/Hr)</u>	<u>Operating Hours (Hr/Yr)</u>	<u>Emission Limits</u>			
			<u>NO<sub>x</sub> (Lb/Hr)</u>	<u>(T/Yr)</u>	<u>CO (Lb/Hr)</u>	<u>(T/Yr)</u>
Boilers (2) <sup>a</sup>	15.7 (Each)	8,760	1.54	6.75	1.3	5.67

<sup>a</sup> Only one boiler may operate at a time. Design will not allow both to be operated simultaneously.

Compliance with annual limits shall be determined from a running total of twelve months of data, i.e., the sum of the data for the current month plus the previous 11 months of data. [T1]

The above limitations contain revisions to previously issued Permit 86120015. The source has requested that the Illinois EPA establish conditions in this permit that allow various refinements from the conditions of this aforementioned permit, consistent with the information provided in the CAAPP application. The source has requested these revisions and has addressed the applicability and compliance of Title I of the CAA, specifically 35 IAC Part 203, Major Stationary Sources Construction and Modification and/or 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits continue to ensure that the construction and/or modification addressed in this permit does not constitute a new major source or major modification pursuant to these rules. These limits are the primary enforcement mechanism for the equipment and activities permitted in this permit and the information in the CAAPP application contains the most current and accurate information for the source.

Specifically, the operating hours, NO<sub>x</sub>, and CO emission limits were revised. [T1R]

7.10.7 Testing Requirements

None

7.10.8 Monitoring Requirements

None

7.10.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items to demonstrate compliance with Conditions 5.5.1, 5.5.3 and 7.10.5 pursuant to Section 39.5(7) (b) of the Act:

- a. Total natural gas usage for affected boilers (ft<sup>3</sup>/month); and
- b. Annual aggregate NO<sub>x</sub>, PM, SO<sub>2</sub>, and VOM emissions from the affected fuel combustion units, based on fuel consumption and the applicable emission factors, with supporting calculations.

7.10.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section of noncompliance with applicable control and operating requirements as follows pursuant to Section 39.5(7) (f) (ii) of the Act:

- a. Notification within 60 days of operation of the affected fuel combustion units that may not have been in compliance with the opacity limitations in Condition 5.5.2(b), with a copy of such record for each incident.
- b. Emissions of NO<sub>x</sub>, PM, SO<sub>2</sub>, or VOM from the affected boilers in excess of the limits specified in Condition 5.5.1 and 7.10.6 based on the current month's records plus the preceding 11 months within 30 days of such an occurrence.

7.10.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.10.12 Compliance Procedures

- a. Compliance with Condition 7.10.3(b) and (c) is demonstrated under inherent operating conditions of

an affected boiler, so that no compliance procedures are set in this permit addressing this requirement.

b. Compliance with the emission limits in Conditions 5.5.1 and 7.10.6 shall be based on the recordkeeping requirements in Condition 7.10.9 and the emission factors and formulas listed below:

i. Emissions from the fuel combustion units burning natural gas shall be calculated based on the following emission factors:

<u>Pollutant</u>	<u>Emission Factor (lb/Mft<sup>3</sup>)</u>
NO <sub>x</sub>	100
PM	7.6
SO <sub>2</sub>	0.6
VOM	5.5

These are the emission factors for uncontrolled natural gas combustion in commercial boilers (< 100 mmBtu/hr), Tables 1.4-1, 1.4-2, and 1.4-3, AP-42, Volume I, Supplement D, July 1998. VOM emission factor based on TOC factor corrected for 52% methane contribution.

Fuel Combustion Unit Emissions (ton) = natural gas consumed multiplied by the appropriate emission factor/2000.

7.11 Unit 11: Gasoline Storage Tank  
Control: None

7.11.1 Description

The facility operates a 560 gallon gasoline storage tank.

7.11.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
11	560 Gallon Gasoline Storage Tank with Submerged Loading Pipe	None

7.11.3 Applicability Provisions and Applicable Regulations

- a. Gasoline tank is an "affected tank" for the purpose of these unit-specific conditions.
- b. No person shall cause or allow the loading of any organic material into any stationary tank having a storage capacity of greater than 946 l (250 gal), unless such tank is equipped with a permanent submerged loading pipe or an equivalent device approved by the Illinois EPA according to the provisions of 35 IAC 201, and further processed consistent with Section 218.108 of this Part, or unless such tank is a pressure tank as described in 35 IAC 218.121(a) or is fitted with a recovery system as described in 35 IAC 218.122(b) (2) [35 IAC 218.122(b)].
- c. No person shall cause or allow the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from any emission unit, except as provided in 35 IAC 218.302, 218.303, or 218.304 and the following exemption: If no odor nuisance exists the limitation of 35 IAC 218 Subpart G shall only apply to photochemically reactive material [35 IAC 218.301].

7.11.4 Non-Applicability of Regulations of Concern

- a. The affected tank is not subject to the NSPS for volatile organic liquid storage vessels (including petroleum liquid storage vessels) for which construction, reconstruction, or modification commenced after July 23, 1984, 40 CFR 60 Subpart Kb, because the affected tank was constructed prior to 1984.
- b. The affected tank is not subject to the requirements of 35 IAC 218.123, petroleum liquid storage tanks,

pursuant to 35 IAC 215.123(a) (2), which exempts storage tanks with a capacity less than 151.42 m<sup>3</sup>.

7.11.5 Operational and Production Limits and Work Practices

The affected tank shall only be used for the storage of gasoline.

7.11.6 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.

Emission limits for VOM are not set for the affected tank, as potential to emit in the absence of permit limit is less than the significant and major source thresholds for these pollutants pursuant to Title I of the CAA, specifically the federal rules for the Prevention of Significant Deterioration (PSD), 40 CFR 52.21.

7.11.7 Testing Requirements

None

7.11.8 Monitoring Requirements

None

7.11.9 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 Conditions 5.5.1, 7.11.3, and 7.11.5, pursuant to Section 39.5(7) (b) of the Act:

- a. Design information for the tank showing the presence of a permanent submerged loading pipe;
- b. Maintenance and repair records for the tank, as related to the repair or replacement of the loading pipe;
- c. The throughput of the affected tank, gal/mo and gal/yr; and
- d. The monthly and aggregate annual VOM emissions from the affected tank based on the material stored, the tank throughput, and the applicable emission factors and formulas with supporting calculations.

#### 7.11.10 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:

- a. Any storage of VOL in an affected tank that is not in compliance with the requirements of Conditions 7.11.3(b) (see also 35 IAC 218.122(b)), e.g., no "permanent submerged loading pipe," within thirty days of becoming aware of the non-compliance status. This notification shall include a description of the event, the cause for the non-compliance, actions taken to correct the non-compliance, and the steps taken to avoid future non-compliance;
- b. Any storage of VOL in an affected tank that is out of compliance with the requirements of Conditions 7.11.3(b) (see also 35 IAC 218.122(b)) due to damage, deterioration, or other condition of the loading pipe, within 30 days of becoming aware of the non-compliance status. This notification shall include a description of the event, the cause for the non-compliance, actions taken to correct the non-compliance, and the steps to be taken to avoid future non-compliance;
- c. The storage of any VOL or VPL other than the material specified in Condition 7.11.5(a) within 30 days of becoming aware of the non-compliance status. This notification shall include a description of the event, the cause for the non-compliance, actions taken to correct the non-compliance, and the steps to be taken to avoid future non-compliance.

#### 7.11.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

#### 7.11.12 Compliance Procedures

Compliance with the emission limits shall be based on the recordkeeping requirements in Condition 7.11.9 and the emission factors and formulas listed below:

For the purpose of estimating VOM emissions from the affected tanks to determine compliance with Conditions 5.5.1 and 7.11.3(c), Versions 3.1 or 4.0 of the TANKS program are acceptable.

7.12 Unit 12: Kneader  
Control: Bag Filter

7.12.1 Description

Master batch is mixed into a rubber sheet for processing in the banbury mixer.

7.12.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
12	Kneader	2005	Bag Filter

7.12.3 Applicability Provisions and Applicable Regulations

- a. The affected "Kneader", for the purpose of this permit, is the unit described in conditions 7.12.1 and 7.12.2.
- b. The affected Kneader is subject to 35 IAC 215.301, which provides that no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from any emission source, except as provided in Sections 215.302, 215.303, 215.304 and the following exception: If no odor nuisance exists the limitation of this Subpart shall apply to photochemically reactive material [35 IAC 215.301].
- c. The affected Kneader is subject to 35 IAC 212.321, which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced on or after April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission 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)]

7.12.4 Non-Applicability of Regulations of Concern

Non-applicability of regulations of concern are not set for the affected kneader. However, there may be source-wide non-applicability of regulations of concern set forth in Condition 5.3.

7.12.5 Operational and Production Limits and Work Practices

None

7.12.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide limitations in Condition 5.5.1, the affected kneader is subject to the following:

Operation of equipment and emissions of volatile organic material (VOM) and HAPs shall not exceed the following.

<u>Equipment</u>	<u>Emission Limits</u>			
	<u>VOM</u>		<u>HAPs</u>	
	<u>(Lb/Hr)</u>	<u>(T/Yr)</u>	<u>(Lb/Hr)</u>	<u>(T/Yr)</u>
kneader	0.0067	0.0293	0.0023	0.0010

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) [T1N].

The above limitations are being established in this permit pursuant to Title I of the CAA, specifically 35 IAC Part 203, Major Stationary Sources Construction and Modification and/or 40 CFR 52.21, Prevention of Significant Deterioration (PSD). The source has requested that the Illinois EPA establish emission limitations and other appropriate terms and conditions in this permit that limit the VOM and HAPs emissions from the affected kneader below the levels that would trigger the applicability of these rules, consistent with the information provided in the CAAPP application [T1N].

7.12.7 Testing Requirements

None

7.12.8 Monitoring Requirements

None

7.12.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected kneader to demonstrate compliance with Conditions 5.5.1, 7.12.3, and 7.12.6, pursuant to Section 39.5(7)(b) of the Act:

- a. The throughput of the affected kneader, lb/hr & ton/year.

- b. The monthly and aggregate annual VOM and HAPs emissions from the affected kneader based on the throughput, and the applicable emission factors and formulas with supporting calculations.

7.12.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected kneader 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 VOM and HAPs from the affected kneader in excess of the limits specified in Condition 7.12.3 and 7.12.6 within 30 days of such occurrence.
- b. Operation of the affected kneader in excess of the limits specified in Condition 7.12.3 and 7.12.6 within 30 days of such occurrence.

7.12.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.12.12 Compliance Procedures

Compliance with the emission limits shall be based on the recordkeeping requirements in Condition 7.12.9 and the emission factors and formulas listed below:

- a. For the purpose of estimating VOM emissions from the affected kneader to determine compliance with Conditions 5.5.1 and 7.12.3(b) & (c), and 7.12.6 the following formulas and emission factors shall be used:

- i. 
$$\text{VOM (lb/hr)} = \text{Emission Factor}^* \times \text{Process Throughput, lb/hr}$$

$$\text{VOM (ton/yr)} = \text{VOM emissions (lb/hr)} \times \frac{1 \text{ ton}}{2000 \text{ lb}} \times \text{hr/yr}$$

$$\text{emission factor} = 3.28 \times 10^{-5} \text{ per CAAPP application}$$

- ii. 
$$\text{HAP (lb/hr)} = \text{Emission Factor}^* \times \text{Process Throughput, lb/hr}$$

$$\text{A. HAP (ton/yr)} = \text{HAP emissions (lb/hr)} \times \frac{1 \text{ ton}}{2000 \text{ lb}} \times \text{hr/yr}$$

- B. Compliance of the affected kneader with conditions 7.12.3(c) shall be based on the recordkeeping requirements of 7.12.9, and by the use of the emission factors and formula listed below:

For Compliance with Condition 7.12.3(c):

PM (lb) = Emission factor\* X Process  
Throughput x (1 - Overall Control\*)

\* Per CAAPP Application: emission factor  
=  $7.83 \times 10^{-5}$ , Overall Control: 95%

## 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 **July 11, 2002** (the date of issuance of the draft permit) unless this permit has been modified to reflect such new requirements.

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

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

### 8.3 Emissions Trading Programs

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

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

### 8.4 Operational Flexibility/Anticipated Operating Scenarios

#### 8.4.1 Changes Specifically Addressed by Permit

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

#### 8.4.2 Changes Requiring Prior Notification

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

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

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

#### 8.5 Testing Procedures

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

## 8.6 Reporting Requirements

### 8.6.1 Monitoring Reports

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

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

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

### 8.6.2 Test Notifications

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

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

### 8.6.3 Test Reports

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

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

### 8.6.4 Reporting Addresses

- a. The following addresses should be utilized for the submittal of reports, notifications, and renewals:
  - i. Illinois EPA - Air Compliance Section  
  
Illinois Environmental Protection Agency  
Bureau of Air  
Compliance Section (MC 40)  
P.O. Box 19276  
Springfield, Illinois 62794-9276
  - ii. Illinois EPA - Air Regional Field Office  
  
Illinois Environmental Protection Agency  
Division of Air Pollution Control  
5415 North University  
Peoria, Illinois 61614
  - iii. Illinois EPA - Air Permit Section  
  
Illinois Environmental Protection Agency  
Division of Air Pollution Control  
Permit Section (MC 11)  
P.O. Box 19506  
Springfield, Illinois 62794-9506

iv. USEPA Region 5 - Air Branch

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

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

8.7 Obligation to Comply with Title I Requirements

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

## 9.0 STANDARD PERMIT CONDITIONS

### 9.1 Effect of Permit

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

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

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

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

### 9.2 General Obligations of Permittee

#### 9.2.1 Duty to Comply

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

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

9.2.2 Duty to Maintain Equipment

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

9.2.3 Duty to Cease Operation

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

9.2.4 Disposal Operations

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

9.2.5 Duty to Pay Fees

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

9.3 Obligation to Allow Illinois EPA Surveillance

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

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

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

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

#### 9.4 Obligation to Comply with Other Requirements

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

#### 9.5 Liability

##### 9.5.1 Title

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

##### 9.5.2 Liability of Permittee

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

##### 9.5.3 Structural Stability

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

##### 9.5.4 Illinois EPA Liability

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

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

#### 9.5.5 Property Rights

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

### 9.6 Recordkeeping

#### 9.6.1 Control Equipment Maintenance Records

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

#### 9.6.2 Records of Changes in Operation

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

#### 9.6.3 Retention of Records

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

### 9.7 Annual Emissions Report

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

### 9.8 Requirements for Compliance Certification

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

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

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

#### 9.9 Certification

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

#### 9.10 Defense to Enforcement Actions

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

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

##### 9.10.2 Emergency Provision

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

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

- ii. The permitted source was at the time being properly operated;
- iii. The Permittee submitted notice of the emergency to the Illinois EPA within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
- iv. During the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or regulations in this permit.

- b. This provision is in addition to any emergency or upset provision contained in any applicable requirement. This provision does not relieve a Permittee of any reporting obligations under existing federal or state laws or regulations.

#### 9.11 Permanent Shutdown

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

#### 9.12 Reopening and Reissuing Permit for Cause

##### 9.12.1 Permit Actions

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

##### 9.12.2 Reopening and Revision

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

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

#### 9.12.3 Inaccurate Application

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

#### 9.12.4 Duty to Provide Information

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

#### 9.13 Severability Clause

The provisions of this permit are severable, and should any one or more be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected. The rights and obligations of the Permittee shall be construed and enforced as if this permit did not contain the particular provisions held to be invalid and the applicable requirements underlying these provisions shall remain in force [Section 39.5(7) (i) of the Act].

#### 9.14 Permit Expiration and Renewal

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

10.0 ATTACHMENTS

10.1 Attachment 1 - 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. Except as further provided in this Part, no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of this Section.
- b. Interpolated and extrapolated values of the data in subsection (c) of this Section shall be determined by using the equation:

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

Where:

P = Process weight rate  
E = Allowable emission rate

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

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

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

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

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

Metric		English	
P	E	P	E
Mg/hr	kg/hr	T/hr	lbs/hr
0.05	0.25	0.05	0.55
0.1	0.29	0.10	0.77
0.2	0.42	0.20	1.10
0.3	0.64	0.30	1.35
0.4	0.74	0.40	1.58
0.5	0.84	0.50	1.75
0.7	1.00	0.75	2.40
0.9	1.15	1.00	2.60
1.8	1.66	2.00	3.70
2.7	2.1	3.00	4.60
3.6	2.4	4.00	5.15
4.5	2.7	5.00	6.00
9.	3.9	10.00	8.70
13.	4.8	15.00	10.80
18.	5.7	20.00	12.50
23.	6.5	25.00	14.00
27.	7.1	30.00	15.60
32.	7.7	35.00	17.00
36.	8.2	40.00	18.20
41.	8.8	45.00	19.20
45.	9.3	50.00	20.50
90.	13.4	100.00	29.50
140.	17.0	150.00	37.00
180.	19.4	200.00	43.00
230.	22.	250.00	48.50
270.	24.	300.00	53.00
320.	26.	350.00	58.00
360.	28.	400.00	62.00
408.	30.1	450.00	66.00
454.	30.4	500.00	67.00

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>.

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 - Guidance on Renewing This Permit

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

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

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

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

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

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

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

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

Mail renewal applications to:

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