217/782-2113

REVISED
TITLE V - CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT
and
TITLE I PERMIT[1]

PERMITTEE

Kimble Glass Inc.
Attn: James B. Rocco
537 Crystal Avenue
Vineland, New Jersey 08360

Application No.: 95090043 I.D. No.: 031045AAJ
Applicant's Designation: Date Received: September 7, 1995
Operation of: Glass Container Manufacturing Facility
Date Issued: April 16, 2001 Expiration Date[2]: April 16, 2006
Source Location: 1131 Arnold Street, Chicago, 60411, Cook County
Responsible Official: James Rocco - Manager Environmental Services

This permit is hereby granted to the above-designated Permittee to OPERATE a manufacturing facility of glass containers, pursuant to the above referenced permit application. This permit is subject to the conditions contained herein.

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

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

DES:JRC:jar

cc: Illinois EPA, FOS, Region 1
USEPA

[1] 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.

[2] Except as provided in Condition 8.7 of this permit.

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1.0 SOURCE IDENTIFICATION

1.1 Source

Kimble Glass, Inc.
1131 Arnold Street
Chicago Heights, Illinois 60411
708/757-5555

I.D. No.: 031045AAJ
Standard Industrial Classification: 3221, Glass Containers

1.2 Owner/Parent Company

Kimble Glass, Inc.
537 Crystal Avenue
Vineland, New Jersey 08360

1.3 Operator

Kimble Glass, Inc.
1131 Arnold Street
Chicago Heights, Illinois 60411

Richard Abbott
708/757-5555 Ext.129

1.4 General Source Description

The Kimble Glass, Inc. is located at 1131 Arnold Street. Kimble Glass, Inc. is a glass container manufacturing facility.

2.0 LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT

ACMA	Alternative Compliance Market Account
Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
ATU	Allotment Trading Unit
Btu	British thermal unit
°C	Degrees Celsius
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CAM	Compliance Assurance Monitoring
cfm	Cubic feet per meter
CFR	Code of Federal Regulations
cm	Centimeter
dscf	Dry standard cubic feet
dscm	Dry standard cubic meter
EPA	Environmental Protection Agency
ERMS	Emissions Reduction System
°F	Degrees Fahrenheit
ft	Feet
ft^3	Cubic feet
gal	Gallon
g	Grams
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
in	Inch
kg	Kilogram
kPa	Kilopascals
kW	Kilowatts
lb	Pound
m	Meter
Mft^3	Mega cubic feet
Mg	Megagram
min	Minute
mmBtu	Million British thermal units
$mmft^3$	Millimeter cubic feet
mmHg	Millimeter mercury
mo	Month
mph	miles per hour
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides

NSPS	New Source Performance Standards
PM	Particulate Matter
PM_{10}	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
ppm	parts per million
PSD	Prevention of Significant Deterioration
psi	Pounds per square inch
RMP	Risk Management Plan
sec	Seconds
scf	Standard cubic feet
SO_2	Sulfur Dioxide
T	Tons
T1	Title I – identifies Title I conditions that have been carried over from an existing permit
T1N	Title I New – identifies Title I conditions that are being established in this permit
T1R	Title I Revised – identifies Title I conditions that have been carried over from an existing permit and subsequently revised in this permit
USEPA	United States Environmental Protection Agency
VOM	Volatile Organic Material
yr	year

3.0 INSIGNIFICANT ACTIVITIES

3.1 Identification of Insignificant Activities

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

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

None

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

None

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

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

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)].

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)].

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
01	Raw Material Receiving and Storage	November, 1972	N/A
02	Raw Material Weighing and Mixing	November,1972	Pangborn Baghouse
03	Cullet System	November,1972	N/A
04	Glass Melting Furnace “A” and Refiner (Melting & Conditioning)	December, 1967	None
05	Glass Melting Furnace B” and Refiner (Melting & Conditioning)	December, 1976	Electrostatic Precipitator Constructed 12/99
06	Lehrs (7) [Annealing Lehrs (5) & Decorating (2)]	November, 1972	N/A
	Forehearths for Furnace (Transporting molten glass to container forming and finishing products)	November, 1972	N/A
07	A-Bottle Forming Machines (Glass Container Forming)	November,1972	N/A
	B-Bottle Forming Machines (Glass Container Forming)	November,1972	N/A
08	Hot End Surface Treatment Units (5 in number)	July, 1986	N/A

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 NO_X emissions.

5.1.2 This permit is issued based on the source not being a major source of HAPs.

5.2 Applicable Regulations

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

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

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

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

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

5.2.3 Fugitive Particulate Matter Operating Program

a. This source shall be operated under the provisions of an operating program prepared by the Permittee and submitted to the Illinois EPA for its review. Such operating program shall be designed to significantly reduce fugitive particulate matter emissions [35 IAC 212.309(a)].

b. The operating program shall be amended from time to time by the Permittee so that the operating program is

current. Such amendments shall be consistent with the requirements set forth by this Condition and shall be submitted to the Illinois EPA [35 IAC 212.312].

c. All normal traffic pattern roads and parking facilities located at this source shall be paved or treated with water, oils, or chemical dust suppressants. All paved areas shall be cleaned on a regular basis. All areas treated with water, oils, or chemical dust suppressants shall have the treatment applied on a regular basis, as needed, in accordance with the operating program [35 IAC 212.306].

5.2.4 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.

5.2.8 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

This permit is issued based on the source not being subject to the control requirements of 35 IAC Part 218 Subpart TT, pursuant to 218.980(f) because these control requirements in Subpart TT shall not apply to furnaces at glass container manufacturing sources.

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)	7.47
Sulfur Dioxide (SO^2)	35.66
Particulate Matter (PM)	81.32
Nitrogen Oxides (NO_x)	310.57
HAP, not included in VOM or PM	6.30
TOTAL	441.32

5.5.2 Emissions of Hazardous Air Pollutants

This permit is issued based on the emissions of HAPs as listed in Section 112(b) of the CAA not being equal to or

exceeding 10 tons per year of a single HAP or 25 tons per year of any combination of such HAPs, so that this source is considered a minor source of HAPs.

5.5.3 Other Source-Wide Emission Limitations

The annual emissions from the bottle forming machines shall not exceed the following limits:

Pollutant	Emissions (Tons/Yr)	Underlying Rules	Emission Unit
VOM	2.5	218.980(d)	Bottle Forming Machines

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 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

None

5.9 General Compliance Procedures

5.9.1 General Procedures for Calculating Emissions

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

6.0 EMISSIONS REDUCTION MARKET SYSTEM (ERMS)

6.1 Description of ERMS

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

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

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

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

6.2 Applicability

This permit is issued based on this source not being a participating source in the Emissions Reduction Market System (ERMS), 35 IAC Part 205, pursuant to 35 IAC 205.200. This is

based on the source's actual VOM emissions during the seasonal allotment period from May 1 through September 30 of each year being less than 10 tons and the source's baseline emissions also being less than 10 tons.

6.3 Recordkeeping and Reporting

a. The Permittee shall maintain the following records to allow the confirmation of actual VOM emissions during the seasonal allotment period:

i. Records of operating data and other information for each individual emission unit or group of related emission units at the source, as specified in Sections 5 and 7 of this permit, as appropriate, to determine actual VOM emissions during the seasonal allotment period;

ii. Records of the VOM emissions, in tons, during the seasonal allotment period, with supporting calculations, for each individual emission unit or group of related emission units at the source, determined in accordance with the procedures specified in Sections 5 and 7 of this permit; and

iii. Total VOM emissions from the source, in tons, during each seasonal allotment period, which shall be compiled by November 30 of each year.

b. In the event that the source's VOM emissions during the seasonal allotment period equal or exceed 10 tons, the source shall become a participating source in the ERMS and beginning with the following seasonal allotment period, shall comply with 35 IAC Part 205, by holding allotment trading units (ATUs) for its VOM emissions during each seasonal allotment period, unless the source obtains exemption from the ERMS by operating with seasonal VOM emissions of no more than 15 tons pursuant to a limitation applied for and established in its CAAPP permit.

6.4 Federal Enforceability

Section 6.0 becomes federally enforceable upon approval of the ERMS by USEPA as part of Illinois' State Implementation Plan.

7.0 UNIT SPECIFIC CONDITIONS

7.1 Unit 01: Raw Material Receiving and Storage
Control 01: None

7.1.1 Description

The Raw Material Receiving and Storage process is comprised of an unloading pit, a screw conveyor, a horizontal conveyor, two bucket elevators, one distributor, and fourteen storage bins. The raw material is dumped in an unloading pit. Subsequently it is transported to a bucket elevator system using a closed screw conveyor. The elevator system feeds the raw materials to the distributor which diverts raw materials to separate storage bins using chutes with gravity. The storage bins are located indoors.

7.1.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
01	Raw Material Receiving and Storage	N/A

7.1.3 Applicability Provisions and Applicable Regulations

a. An “affected raw material receiving and storage process” for the purpose of these unit specific conditions is a raw material receiving and storage process listed in Condition 7.1.2 and described in 7.1.1.

b. The affected raw material receiving and storage process 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 unit, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c) (See also Attachment 2) [35 IAC 212.321(a)].

7.1.4 Non-Applicability of Regulations

N/A

7.1.5 Operational and Production Limits and Work Practices

N/A

7.1.6 Emission Limitations

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

7.1.7 Testing Requirements

N/A

7.1.8 Monitoring Requirements

N/A

7.1.9 Recordkeeping Requirements

In addition to records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected raw material receiving and storage process to demonstrate compliance with condition 5.5.1, pursuant to Section 39.5(7)(b) of the Act:

a. Operating schedules (hr/mo and hr/yr); and

b. Operating records of material processed on a monthly and annually basis in tons.

7.1.10 Reporting Requirements

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

7.1.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.1.12 Compliance Procedures

Compliance with the emission limits in Condition 5.5 and 7.1.3(b) from the affected raw material receiving and storage process shall be based on the recordkeeping requirements in Condition 7.1.9 and the emission factors and formulas listed below:

Emission Summary of Raw Material Receiving and Storage Process for Particulate Matter (PM):

Particulate Matter (PM) Emission (lb/mo) = [Particulate Matter of Unloading and Conveying (lb/mo)] + [Particulate Matter of Storage Bins (lb/mo)]

Where from AP-42, Table 11.13.2, Glass Fiber Manufacturing, we have:

Unloading and conveying = (3.0 lb/ton) * (Amount of material processed through all unloaders and conveyors (ton/mo))

Storage bins = (0.2 lb/ton) * (Amount of material processed through all storage bins (ton/mo))

7.2 Unit 02: Raw Material Weighing and Mixing
Control 02: Pangborn Baghouse

7.2.1 Description

The Raw Materials Weighing and Mixing process is comprised of four screw conveyors, three weigh hoppers, one mixer, fourteen silo discharges, a belt conveyor and a minor ingredient system. The raw materials from the storage bins are loaded into weigh hoppers. After weighing they are loaded to a mixer and the batch is prepared. The raw material batch is transported to the furnaces in batch furnace containers and stored in the furnace bins. The pangborn baghouse is used as an abatement device for emissions from various pickup points. Also a fabric baghouse is used to control emissions from the cullet weigh hopper. The minor ingredient system is a hand filled, auto weigh operation utilizing a separate scale. The system consists of five day bins each with an approximate capacity of 2200 pounds. The materials typically stored in these bins are sodium sulfate, salt, two separate decolorizer mixes, and iron oxide. Each day bin has a dust collector pick-up, which is attached to the pangborn baghouse.

7.2.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
02	Raw Material Weighing and Mixing	Pangborn Baghouse

7.2.3 Applicability Provisions and Applicable Regulations

a. An “affected raw material weighing and mixing process” for the purpose of these unit specific conditions is a raw material weighing and mixing process listed in Condition 7.2.2 and described in 7.2.1.

b. The affected raw material weighing and mixing process 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 unit, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c) (See also Attachment 2)

[35 IAC 212.321(a)].

7.2.4 Non-Applicability of Regulations

N/A

7.2.5 Operational and Production Limits and Work Practices

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

7.2.6 Emission Limitations

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

7.2.7 Testing Requirements

N/A

7.2.8 Monitoring Requirements

N/A

7.2.9 Recordkeeping Requirements

In addition to records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected raw material weighing and mixing process to demonstrate compliance with condition 5.5.1 and 7.2.5, pursuant to Section 39.5(7)(b) of the Act:

a. Operating schedules (hr/mo and hr/yr);

b. Operating records of material processed on a monthly and annually basis in tons; and

c. A maintenance log for the control equipment detailing all routine and non-routine maintenance performed.

7.2.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected raw material weighing and mixing process with the permit requirements within 30 days, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective

actions or preventive measures taken.

7.2.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.2.12 Compliance Procedures

Compliance with the emission limits in Condition 5.5 and 7.2.3(b) from the affected raw material weighing and mixing process shall be based on the recordkeeping requirements in Condition 7.2.9 and the emission factors and formulas listed below:

Emission Summary of Raw Material Weighing and Mixing Process for Particulate Matter (PM):

From AP-42, Table 11.13-2, Glass Fiber Manufacturing, we have the emission factor for Mixing and Weighing = 0.6 lb/ton of material processed

Particulate Matter (PM) Emission (lb/mo)= [Particulate Matter (PM) Emission Factor for Mixing and Weighing (lb/ton]* [Amount of material processed by Weighing and Mixing (ton/mo)]* [1 – Control Efficiency/100]

Control Efficiency of Pangborn Baghouse = 99%

7.3 Unit 03: Cullet System
Control 03: None

7.3.1 Description

The cullet system consists of outdoor storage, aggregate handling, a jaw crusher, a bucket elevator, a distributor and four storage bins. The cullet is fed to a surge hopper which feeds the crusher. After the cullet is crushed it is stored in storage bins using the elevator and the distributor. The storage bins discharge to a cullet scale which is a part of the raw materials weighing and mixing system as and when required.

7.3.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
03	Cullet System	N/A

7.3.3 Applicability Provisions and Applicable Regulations

a. An “affected cullet system” for the purpose of these unit specific conditions is a cullet system listed in Condition 7.3.2 and described in 7.3.1.

b. The affected cullet system 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 unit, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c) (See also Attachment 2) [35 IAC 212.321(a)].

7.3.4 Non-Applicability of Regulations

N/A

7.3.5 Operational and Production Limits and Work Practices

N/A

7.3.6 Emission Limitations

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

7.3.7 Testing Requirements

N/A

7.3.8 Monitoring Requirements

N/A

7.3.9 Recordkeeping Requirements

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

a. Operating schedules (hr/mo and hr/yr);

b. Operating records of material processed on a monthly and annually basis in tons;

c. Records of mean wind speed (miles/hour); and

d. Records of material moisture content (%).

7.3.10 Reporting Requirements

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

7.3.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.3.12 Compliance Procedures

Compliance with the emission limits in Condition 5.5 and 7.3.3(b) from the affected cullet system shall be based on the recordkeeping requirements in Condition 7.3.9 and the emission factors and formulas listed below:

Emission Summary of the Cullet System for Particulate Matter (PM):

Particulate Matter (PM) Emission (lb/mo) = [Particulate Matter of Unloading and Conveying (lb/mo)] + [Particulate Matter of Storage Bins (lb/mo)] + [Particulate Matter (PM) Emission of Cullet System(lb/mo)]

Where from AP-42, Table 11.13.2, Glass Fiber Manufacturing, we have:

Unloading and conveying = (3.0 lb/ton) * (Amount of material processed through all unloaders and conveyors (ton/mo))

Storage bins = (0.2 lb/ton) * (Amount of material processed through all storage bins (ton/mo))

From AP-42, 13.2.4, Aggregate Handling and Storage Piles, we have:

Particulate Matter (PM) Emission Factor (lb/ton)= k * (0.0032) * $(U/5)^{1.3}/(M/2)^{1.4}$

Where:

k = Particle size multiplier
U = Mean wind speed, miles per hour (mph)
M = Material moisture content (%)

Particulate Matter (PM) Emission of Cullet System (lb/mo) = [Cullet System Emission Factor (lb/ton)] * [Amount of material processed of Cullet System (ton/mo)]

7.4 Unit 04: Glass Melting Furnace “A” and Refiner
Control 04: None

7.4.1 Description

Glass Melting Furnace–Regenerative(Natural Gas/Air fired). The furnace has three purposes in the glass making process: to bring raw materials together to react; to hold the molten glass until it is free of bubbles and inclusions; and to condition the glass for forming.

7.4.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
04	Glass Melting Furnace “A” and Refiner	None

7.4.3 Applicability Provisions and Applicable Regulations

a. The “affected glass melting furnace “A”” for the purpose of these unit-specific conditions, is the unit used to melt and condition glass, as listed in Condition 7.4.2.

b. The owner or operator shall not cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from the affected glass melting furnace [35 IAC 218.301]. If no odor nuisance exists this limitation shall apply only to photochemically reactive material.

c. The affected glass melting furnace “A” is subject to 35 IAC 212.322, which provides that:

> No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced prior to April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.322(c) (See also Attachment 2) [35 IAC 212.322(a)].

7.4.4 Non-Applicability of Regulations of Concern

a. The affected glass melting furnace is not subject to 35 IAC 214.301, pursuant to 35 IAC 214.401.

b. The affected glass melting furnace is not subject to 40 CFR 60 Subpart CC-Standards of performance for glass manufacturing plants, because it was constructed prior to June 15, 1979.

c. This permit is issued based on the affected glass melting furnace not being subject to 40 CFR 61 Subpart N-National Emission Standard for Inorganic Arsenic Emissions from Glass Manufacturing Plants, because it applies to glass melting furnaces that use commercial arsenic as a raw material.

7.4.5 Operational and Production Limits and Work Practices

The affected glass melting furnace shall only be operated with natural gas as the fuel.

7.4.6 Emission Limitations

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

7.4.7 Testing Requirements

None

7.4.8 Monitoring 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 glass melting furnace to demonstrate compliance with Conditions 5.5.1 and 7.4.5, pursuant to Section 39.5(7)(b) of the Act:

a. Records of glass production for the affected glass melting furnace, ton/mo and ton/yr; and

b. Records of monthly and annual aggregate PM, NO_X, VOC and CO emissions from the affected glass melting furnace shall be maintained, based on fuel usage and the applicable emission factors, with supporting calculations.

7.4.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected glass melting furnace with the permit requirements within 30 days pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations and any corrective actions or preventive

measures taken.

7.4.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.4.12 Compliance Procedures

Compliance with the emission limits in Condition 5.5, 7.4.3(b) and 7.4.3(c) from the affected glass melting furnace shall be based on the recordkeeping requirements in Condition 7.4.9 and the emission factors and formulas listed below:

For the glass melting furnace “A”:

Pollutant	Glass Manufacturing Emission Factor (lb/ton)
PM	1.4
NO_x	6.2
VOC	0.2
CO	0.2

These are the emission factors for PM, NO_x, VOC and CO for glass manufacturing, melting furnace containers uncontrolled, Tables 11.15-1, and 11.15-2, AP-42, Volume I, Fifth Edition, Supplement D, March 1998.

Glass Manufacturing Emissions (lb) = (Glass Production, ton) * (The appropriate emission factor, lb/ton)

7.5 Unit 05: Glass Melting Furnace “B” and Refiner
Control 05: Electrostatic Precipitator

7.5.1 Description

Glass Melting Furnace – Oxy Fuel Fired. The Furnace was converted from a Regenerative type to an Oxy-Fuel type. The modification resulted in decreased emissions. The emissions from Furnace “B” and Refiner are directly vented through the Electrostatic Precipitator.

7.5.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
05	Glass Melting Furnace “B” and Refiner	Electrostatic Precipitator

7.5.3 Applicability Provisions and Applicable Regulations

a. The “affected glass melting furnace “B”” for the purpose of these unit-specific conditions, is a unit used to melt and condition glass, as listed in Condition 7.5.2.

b. The owner or operator shall not cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from the affected glass melting furnace [35 IAC 218.301]. If no odor nuisance exists this limitation shall apply only to photochemically reactive material.

c. The affected glass melting furnace “B” is subject to 35 IAC 212.321, which provides that:

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

7.5.4 Non-Applicability of Regulations of Concern

a. The affected glass melting furnace is not subject to 35 IAC 214.301, pursuant to 35 IAC 214.401.

b. The affected glass melting furnace is not subject to 40 CFR 60 Subpart CC-Standards of performance for glass manufacturing plants, it was constructed prior to June 15, 1979.

c. This permit is issued based on the affected glass melting furnaces not being subject to 40 CFR 61 Subpart N-National Emission Standard for Inorganic Arsenic Emissions from Glass Manufacturing Plants, because it applies to glass melting furnaces that use commercial arsenic as a raw material.

7.5.5 Operational and Production Limits and Work Practices

a. The Permittee shall operate and maintain, the electrostatic precipitator for furnace “B”, in a manner that assures compliance with the conditions of this section;

b. The Permittee shall operate the electrostatic precipitator at all times during the operation of “B” Furnace with oxy-fuel melter;

c. The Permittee shall, in accordance with the manufacturer(s) and/or vendor(s) recommendations, perform periodic maintenance on the oxy-fuel melter & electrostatic precipitator such that they are kept in proper working condition and do not cause a violation of the Illinois EPA or regulations promulgated therein, or the requirements of the permit; and

d. The affected glass melting furnace shall only be operated with natural gas as fuel.

7.5.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected glass melting furnace “B”, is subject to the following:

a. Emission and operation of equipment shall not exceed the following limits:

			E M I S S I O N S					
	Glass Pull Rate		Nitrogen Oxides		Particulate Matter		Sulfur Dioxide	
Equipment	(T/Hr)	(T/Yr)	(Lb/Hr)	(T/Yr)	(Lb/Hr)	(T/Yr)	(Lb/Hr)	(T/Yr)
“B” Furnace With Oxy-Fuel Melter	4.17	36,500	17.00	74.66	1.38	6.04	1.5	6.57

b. Compliance with the hourly limit on glass production shall be determined as an hourly average of daily production. Compliance with annual limits shall be determined from a running total of 12 months of data.

c. This permit is issued based upon a decrease in nitrogen oxide emissions as a result of the installation of the oxy-fuel melter on existing “B” furnace. As a result, this change does not constitute a major modification pursuant to 35 IAC 203. The Illinois EPA calculates that a decrease of 38.10 tons/yr will occur as a result of this project, comparing actual NO_x emissions in 1992 and 1993, estimated at 112.5 tons/year, and the emissions allowed by this permit, 74.46 tons/yr.

d. The above limitations were established in Permit 94080035 pursuant to 35 IAC Part 203. These limits ensure that the construction and/or modification addressed in the aforementioned permit does not constitute a new major source or major modification pursuant to Title I of the CAA, specifically 35 IAC Part 203 [T1].

7.5.7 Testing Requirements

None

7.5.8 Monitoring Requirements

None

7.5.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records for the affected glass melting furnaces to demonstrate compliance with Conditions 5.5.1 and 7.5.5, pursuant to Section 39.5(7)(b) of the Act:

a. The Permittee shall operate and maintain, monthly and annually records of glass production, for furnace “B”, ton/mo and ton/yr;

b. The Permittee shall maintain records for the operation and maintenance of the electrostatic precipitator, including the operating parameters of the electrostatic precipitator e.g.; voltage and amperage, at least once per shift;

c. The operating schedule of furnace “B” or the number of hours that furnace “B” has been operated; and

d. Records of monthly and annual aggregate PM, NO_x and SO_2 emissions from the affected glass melting furnace shall be maintained, based on fuel usage and the

applicable emission factors, with supporting calculations.

7.5.10 Reporting Requirements

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

7.5.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.5.12 Compliance Procedures

Compliance with the emission limitations of Conditions 5.5, 7.5.3(b),(c) and 7.5.6 from the affected glass melting furnace shall be based on the recordkeeping requirements in Condition 7.5.9 and the emission factors and formulas listed below:

For the glass melting furnace “B” with electrostatic precipitator:

Pollutant	Glass Manufacturing Emission Factor (lb/ton)
NO_x	0.33
PM	4.08
SO_2	0.36

These are the emission factors for NO_x, PM and SO_2 for glass manufacturing melting furnace container with electrostatic precipitator, from the stack test.

Glass Manufacturing Emissions (lb)= (Glass Production, ton) * (The appropriate emission factor, lb/ton)

7.6 Units 06: Lehrs and Forehearths
Control 06: None

7.6.1 Description

The lehrs are continuous annealing ovens used for controlled cooling and drying decoration. The forehearths are used to transport molten glass to container forming and finishing operations.

7.6.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
06	Lehrs(7) [Annealing Lehrs (5) & Decorating Lehrs(2)]	N/A
	Forehearths for furnace	N/A

7.6.3 Applicability Provisions and Applicable Regulations

a. The “affected lehrs and forehearths” for the purpose of these unit specific conditions are the lehrs and forehearths listed in Condition 7.6.2.

b. The owner or operator shall not cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any affected lehr and forehearth [35 IAC 218.301]. If no odor nuisance exists this limitation shall apply only to photochemically reactive material.

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

d. The affected lehrs and forehearths are subject to 35 IAC 212.321, which provides that:

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

7.6.4 Non-Applicability of Regulations

N/A

7.6.5 Operational and Production Limits and Work Practices

Natural gas shall be the only fuel fired in the affected lehrs and forehearths.

7.6.6 Emission Limitations

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

N/A

7.6.7 Testing Requirements

N/A

7.6.8 Monitoring Requirements

N/A

7.6.9 Recordkeeping Requirements

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

a. Records of the fuel usage for the affected lehrs and forehearths, Mft^3/mo and Mft^3/yr; and

b. Records of monthly and annual aggregate NO_x, CO, PM, SO_2, and VOC emissions from the affected lehrs and forehearths shall be maintained, based on fuel usage and the applicable emission factors, with supporting calculations.

7.6.10 Reporting Requirements

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

7.6.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.6.12 Compliance Procedures

Compliance with the emission limits in Conditions 5.5 and 7.6.3(b),(c),(d) from the affected lehrs and forehearths

shall be based on the recordkeeping requirements in Condition 7.6.9, and the formulas listed below:

Pollutant	Natural Gas Emission Factor (lb/Mft^3)
NO_x	100
CO	84
PM	7.6
SO_2	0.6
VOC	5.5

These are the emission factors for uncontrolled natural gas combustion in small boilers (<100 mmBtu/hr), Tables 1.4.1, and 1.4.2, AP-42, Volume I, Fifth Edition, Supplement D, March 1998.

Emissions (lb) = (natural gas consumed, Mft^3) * (the appropriate emission factor, lb/Mft^3).

7.7 Units 07:Bottle Forming Machines
Control 07:None

7.7.1 Description

The molten glass is drawn quickly from the furnace and worked in forming machines. This formed glass is immediately conveyed to continuous annealing ovens where controlled cooling is used to remove internal stresses in the glass.

7.7.2 List of Emission Units and Pollution Control Equipment

Emission Units	Description	Emission Control Equipment
07	A-Bottle forming machines	N/A
	B-Bottle forming machines	N/A

7.7.3 Applicability Provisions and Applicable Regulations

a. An “affected bottle forming machine” for the purpose of these unit specific conditions is a bottle forming machine listed in Condition 7.7.2

b. The owner or operator shall not cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any affected bottle forming machine [35 IAC 218.301]. If no odor nuisance exists this limitation shall apply only to photochemically reactive material.

c. The affected bottle forming 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 new process emission unit, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c) (See also Attachment 2) [35 IAC 212.321(a)].

7.7.4 Non-Applicability of Regulations

This permit is issued based on the affected bottle forming machines not being subject to the control requirements of 218.986 of 35 IAC 218 Subpart TT, Other Emission Units, due to VOM emission limitations established in Condition 5.5.3 for the affected bottle forming machines.

7.7.5 Operational and Work Practices

All equipment shall be operated and maintained per manufacturer's specification.

7.7.6 Emission Limitations

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

Emissions of VOM from the affected bottle forming machines shall not exceed 2.5 tons/year.

These limits are based on 35 IAC 218.980(d).

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

7.7.7 Testing Requirements

N/A

7.7.8 Inspection Requirements

N/A

7.7.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following for the affected bottle forming machines to demonstrate compliance with Condition 5.5.1 and 7.7.5, pursuant to Section 39.5(7)(b) of the Act:

a. Maintain records for the Gob Delivery Materials usage, lb/hr and ton/yr,

b. Maintain records for the Swabbing Materials usage, lb/hr and ton/yr,

c. Maintain records for the Shear Spray System Materials usage, lb/hr and ton/yr.

7.7.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA Compliance Section of deviations of an affected bottle-forming machine 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

N/A

7.7.12 Compliance Procedures

Compliance with the emission limits in Conditions 5.5, 7.7.3(b) and 7.7.3(c) from the affected bottle-forming machines shall be based on the recordkeeping requirements in Condition 7.7.9 and the formulas listed below:

a. Emissions (lb/hr) = (Maximum usage rate of Gob Delivery Materials, lb/hr) * (0.07%, PM emission rate based on engineering estimates as specified by facility)

b. Emissions (lb/hr) = (Maximum usage rate of Swabbing Materials, lb/hr) * (100%, PM emission rate based on engineering estimates as specified by facility)

c. Emissions (lb/hr) = (Maximum usage rate of Shear Spray System Materials, lb/hr) * (10%, VOM emission rate based on engineering estimates as specified by facility)

d. Emissions (lb/hr) = (Maximum usage rate of Shear Spray System Materials, lb/hr) * (10%, PM emission rate based on engineering estimates as specified by facility)

7.8 Unit 08: Glass Coating Booths
Control 08: None

7.8.1 Description

Glass containers from the forming machines are conveyed directly to annealing lehrs while hot. Surface treatment hoods are installed on each conveyor (2 in total), in order to apply an anhydrous stannous chloride coating to the hot glass containers, therefore increasing their surface durability. These surface treatment hoods will be placed on two production lines for intermittent use as required by customer demand. The application basically is a fuming process in which tin chloride vapors are permitted to contact the hot glass surfaces of the containers within the treatment hood. The tin chloride reacts to form the necessary coating for surface protection of the container. Any over-spray is captured by a simple treatment hood exhaust system.

7.8.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
07	Hot End Surface Treatment Units (HESTs) (5 in number)	N/A

7.8.3 Applicability Provisions and Applicable Regulations

a. An "affected glass coating booth" for the purpose of these unit specific conditions is a coating operation that includes application of the decorative coatings on a glass container.

b. The affected glass coating booths are subject to 35 IAC 212.321, which provides that:

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

The amount of glass treated shall not exceed 2000 pounds per hour.

7.8.6 Emission Limitations

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

a. Emissions of the particulate matter (including hydrochloric acid) from the tin treatment process shall not exceed 10.7 ton/yr (and 6.3 ton/yr for hydrochloric acid). These limits are based on the allowable emission limit (2.54 pounds of particulate matter) at the maximum hours of operation (8400 hours per year) and the maximum emission rate (1.5 pounds per hour of hydrogen chloride) indicated in the permit application.

b. This permit is issued based on negligible emissions of sulfur dioxide from the sulfur trioxide treatment process. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hr and 0.44 ton/yr.

c. Compliance with the 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 months total.

d. The above limitations were established in Permit #86080039, pursuant to 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits ensure that the construction and/or modification addressed in the aforementioned permit does not constitute a new major source or major modification pursuant to Title I of the CAA, specifically the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21 [T1].

7.8.7 Testing Requirements

N/A

7.8.8 Monitoring 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 each affected glass coating booth to demonstrate compliance with Condition 5.5.1, pursuant to Section 39.5(7)(b) of the Act:

a. Operating schedule of the affected glass coating booths;

b. Maintain records of glass treated, lb/hr and ton/yr;

c. The monthly and annual emissions.

7.8.10 Reporting Requirements

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

7.8.11 Operational Flexibility/Anticipated Operating Scenarios

None

7.8.12 Compliance Procedures

Compliance with the emission limits in Conditions 5.5, 7.8.3(b) and 7.8.6 from the affected glass coating booths shall be based on the recordkeeping requirements in Condition 7.8.9 and the formulas listed below:

PM (ton/yr)=(2.54 lb/hr) * (Hours of operation)

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 _____ (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]:

Monitoring Period	Report Due Date
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
9511 West Harrison
Des Plaines, Illinois 60016

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

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

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)(l), (n), and (o) of the Act].

10.0 ATTACHMENTS

10.1 Attachment 1 - Certification by a Responsible Official

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

Signature: _____

Name: _____

Official Title: _____

Telephone No.: _____

Date Signed: _____

10.2 Attachment 2 - Particulate Matter Emissions from Process Emission Units

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

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

b. Interpolated and extrapolated values of the data in subsection (c) of this Section shall be determined by using the equation:

$$E = A(P)$$

Where

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

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

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

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

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

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

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

Where:

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

10.2.2 35 IAC 212.322 Process Emission Units For Which Construction or Modification Commenced Prior to April 14, 1972.

a. Except as further provided in 35 IAC Part 212, no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced prior to April 14,1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission units at a source or premises, exceeds the allowable emission rates

specified in subsection (c) of this Section.

b. Interpolated and extrapolated values of the data in subsection (c) of this Section shall be determined by using the equation:

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

Where:

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

i. For process weight rates up to 27.2 Mg/hr (30 Ton/hr):

	Metric	English
P	Mg /hr	Ton/hr
E	kg/hr	lbs/hr
A	1.985	4.10
B	0.67	0.67
C	0	0

ii. For process weight rates in excess or 27.2 Mg/hr (30 Ton/hr):

	Metric	English
P	Mg/hr	Ton/hr
E	kg/hr	lbs/hr
A	25.21	55.0
B	0.11	0.11
C	- 18.4	- 40.0

c. Limits for Process Emission Units For Which Construction or Modification Commenced Prior to April 14, 1972

Metric		English	
P	E	P	E
Mg/hr	kg/hr	Ton/hr	lbs/hr
0.05	0.27	0.05	0.55
0.1	0.42	0.10	0.87
0.2	0.68	0.20	1.40
0.3	0.89	0.30	1.83
0.4	1.07	0.40	2.22
0.5	1.25	0.50	2.58
0.7	1.56	0.75	3.38
0.9	1.85	1.00	4.10
1.8	2.9	2.00	6.52
2.7	3.9	3.00	8.56
3.6	4.7	4.00	10.40
4.5	5.4	5.00	12.00
9.	8.7	10.00	19.20
13.	11.1	15.00	25.20
18.	13.8	20.00	30.50
23.	16.2	25.00	35.40
27.2	18.15	30.00	40.00
32.0	18.8	35.00	41.30
36.0	19.3	40.00	42.50
41.0	19.8	45.00	43.60
45.0	20.2	50.00	44.60
90.0	23.2	100.00	51.20
140.0	25.3	150.00	55.40
180.0	26.5	200.00	58.60

230.0	27.7	250.00	61.00
270.0	28.5	300.00	63.10
320.0	29.4	350.00	64.90
360.0	30.0	400.00	66.20
400.0	30.6	450.00	67.70
454.0	31.3	500.00	69.00

Where:

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

10.3 Attachment 3 - Guidance on Revising This Permit

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

1. Administrative Permit Amendment;

2. Minor Permit Modification; and

3. Significant Permit Modification.

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

1. Administrative Permit Amendment

- Corrects typographical errors;
- Identifies a change in the name, address, or phone number of any person identified in the permit, or provides a similar minor administrative change at the source;
- Requires more frequent monitoring or reporting by the Permittee;
- Allows for a change in ownership or operational control of the source where no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new Permittee has been submitted to the Illinois EPA;
- Incorporates into the CAAPP permit a construction permit, provided the conditions of the construction permit meet the requirements for the issuance of CAAPP permits; or
- Incorporates into the CAAPP permit revised limitations or other requirements resulting from the application of an approved economic incentives rule, marketable permits rule, or generic emissions trading rule.

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; and

- Are not required to be processed as a significant permit modification.

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 for the Illinois EPA to use to notify USEPA and affected States.

3. <u>Significant Permit Modification</u>

- Applications that do not qualify as either minor permit modifications or as administrative permit amendments;

- Applications requesting a significant change in existing monitoring permit terms or conditions;

- Applications requesting a relaxation of reporting or recordkeeping requirements; and

- Cases in which, in the judgment of the Illinois EPA, action on an application for modification would require decisions to be made on technically complex issues.

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

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

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

- Form 273-CAAPP, REQUEST FOR ADMINISTRATIVE PERMIT AMENDMENT FOR CAAPP PERMIT; or

- Form 271-CAAPP, MINOR PERMIT MODIFICATION FOR CAAPP PERMIT; or

- Form 200-CAAPP, APPLICATION FOR CAAPP PERMIT (for significant modification).

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

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

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

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

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

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

Source Information

1. Source name:		
2. Source street address:		
3. City:		4. Zip code:
5. Is the source located within city limits?		☐ Yes ☐ No
6. Township name:	7. County:	8. ID number:

Owner Information

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

Operator Information (if different from owner)

14. Name		
15. Address:		
16. City:	17. State:	18. Zip code:

Applicant Information

19. Who is the applicant? ☐ Owner ☐ Operator	20. All correspondence to: (check one) ☐ Owner ☐ Operator ☐ 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?	☐ Yes ☐ 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?	☐ Yes ☐ 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?	☐ Yes ☐ No
27. Does the application include a complete process description for the emission units and control equipment for which a permit is being sought?	☐ Yes ☐ 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.	☐ Yes ☐ 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?	☐ Yes ☐ No ☐ 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.