

FINAL DRAFT/PROPOSED CAAPP PERMIT
PPG Industries, Inc., Works #14
I.D. No.: 115810AAA
Application No.: 95090102
September 3, 2002

² Except as provided in Condition 8.7 of this permit.

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1.0 SOURCE IDENTIFICATION

1.1 Source

PPG Industries, Inc., Works #14
Elwin Road
Mt. Zion, Illinois 62549
217/864-2392

I.D. No.: 115810AAA
Standard Industrial Classification: 3211, Glass Manufacturing
Facility

1.2 Owner/Parent Company

PPG Industries, Inc.
One PPG Place
Pittsburgh, Pennsylvania 15272

1.3 Operator

PPG Industries, Inc., Works #14
Elwin Road
Mt. Zion, Illinois 62549

Kathy Oman, Environmental Engineer
217/864-6288

1.4 General Source Description

PPG Industries, Inc. Illinois glass manufacturing plant is located in Macon County, Mt. Zion township, about 4 miles Southeast of Decatur. The Mt. Zion facility manufactures flat glass by a continuous float process.

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
BACT	Best Available Control Technology
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 Reductions Market System
°F	Degrees Fahrenheit
ft	Feet
ft ³	Cubic feet
gal	Gallon
g	Grams
HAP	Hazardous Air Pollutant
HP	Horsepower
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

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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:

SG100 Vacuum Pump Discharge Units (ES-40, 41, and 42)
SG100 Line Edge Deletion Dust Collector (ES-43)
400,000 Gallon Fuel Oil Tank (ES-324)
1,000,000 Gallon Fuel Oil Tank (ES-325)
Tin Bath Operations Including:
 #1 Bath Atmospheric Vents (ES-69, 70, and 71)
 #2 Bath Atmospheric Vents (ES-87 and 88)
Annealing Lehr Operations Including:
 #1 Lehr Exhausts (ES-74, 75, 76, 77, 78, 79, 80, and 81)
 #1 Lehr Exhaust Systems (ES-114, 115, 116, and 117)
 #2 Lehr Exhausts (ES-89, 90, 91, and 92)

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

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

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

Storage tanks of virgin or rerefined distillate oil, hydrocarbon condensate from natural gas pipeline or storage systems, lubricating oil, or residual fuel oils.

Gas turbines and stationary reciprocating internal combustion engines of between 112 kW and 1118 kW (150 and 1500 horsepower) power output that are emergency or standby units.

- 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).

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4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE

Emission Unit	Description	Date Constructed	Emission Control Equipment
01	Raw Material (Receiving, Storage, and Mixing)	January 1980	Baghouses
02	Cullet System (Handling, Storage, and Feeding)	January 1980	Baghouses
03	Glass Melting Furnace #1 and Refiner (Melting and Conditioning)	January 1980	Electrostatic Precipitator and Lime Injection
04	Glass Melting Furnace #2 and Refiner (Melting and Conditioning)	November 1994	Electrostatic Precipitator and Lime Injection
05	Surface Treatment, Interleaving, and Coating Operations	January 1987 July 1988 July 1989 November 1987	Vents, Ammonia Injection, Oxidizer, Condenser, Scrubbers, and Baghouses
06	Finishing Operations (Cutting, Packing, Shipping)	January 1980	Fabric Filter Vents
07	Boilers	January 1980	N/A
08	Emergency Diesel Engines	January 1980	N/A
09	Gasoline Storage Tank	January 1980	N/A
	Fugitive Emissions (Paved and Unpaved Road Dust)	N/A	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 VOM, PM-10, SO₂ and 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

N/A

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

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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. This 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

None

5.4 Source-Wide Operational and Production Limits and Work Practices

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

None

5.5 Source-Wide Emission Limitations

5.5.1 Permitted Emissions for Fees

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

Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	141.0
Sulfur Dioxide (SO ²)	392.3
Particulate Matter (PM)	363.7
Nitrogen Oxides (NO _x)	3,544.3
HAP, not included in VOM or PM	-----
Total	4,441.3

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

None

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 for each pollutant 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. Applicable standard emission factors from AP-42 or other USEPA or Agency accepted sources shall be used.

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6.0 NOT APPLICABLE TO THIS PERMIT

7.0 UNIT SPECIFIC CONDITIONS

7.1 Unit 01: Raw Material (Receiving, Storage, and Mixing)
 Control 01: Baghouses

7.1.1 Description

The Raw Material process is comprised of unloading hoppers, storage silos, weighing and mixing equipment and distribution conveyors and bucket elevators. Raw materials, including sand, soda ash, dolomite, gypsum, and limestone, are received in bulk by rail and truck from suppliers, and unloaded into storage bins or silos. Raw materials are withdrawn from storage and conveyed into hopper scales for weighing. The proper amount of materials is then mechanically mixed and conveyed to a charging bin near the melting furnace. Fabric baghouses are used to control emissions.

7.1.2 List of Emission Units and Pollution Control Equipment

Emission Unit 01	Description	Emission Control Equipment
ES-3, 3A, 4, 4A, 5, 5A, 6, 7, 7A, 8, 9, 9A, 10, 21, 29, 30, 31, 32, 33, 34, 35, 36, 56, 340, 341, 342, 343, 344, 345	Raw Material (Receiving, Storage, and Mixing)	Baghouses

7.1.3 Applicability Provisions and Applicable Regulations

- a. An "affected raw material process" for the purpose of these unit specific conditions is a raw material receiving, storage, and mixing process listed in Condition 7.1.2 and described in 7.1.1.
- b. The affected raw material process is subject to 35 IAC 212.321(a), which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process unit, either alone or in combination with the emission of particulate matter from all other similar

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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).

7.1.4 Non-Applicability of Regulations

N/A

7.1.5 Operational and Production Limits and Work Practices

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

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 all materials processed on a monthly and annually basis in tons.
- c. Records of monthly (lbs/hr) and annual (tons/yr) aggregate PM emissions for the affected raw material process shall be maintained, based on the Permittee's estimate of maximum emissions from the maximum hours of operation and the applicable emission factors, with supporting calculations.
- d. A maintenance log for the baghouses detailing all

routine and non-routine inspection and maintenance performed.

7.1.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected raw material 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, storage and mixing process shall be based on the recordkeeping requirements in Condition 7.1.9 and the emission factors and formulas listed below:

- a. From the provided permit application and taken from the similar process of uncontrolled batch dropping and handling of sand and gravel, the emission factor for PM-10 for the affected raw material receiving, storage and mixing process = 0.0024 lb/ton of material handled.
- b. $PM-10 \text{ Emission Rate (ton/yr)} = \text{Material Handled, (ton/hr)} * \text{The Operating Schedule (hr/yr)} * \text{The appropriate emission factor, (lb/ton)} * 1 \text{ ton}/2000 \text{ lb.}$
- c. Note: the Material Handled (ton/hr) is the material processed on a monthly basis (Condition 7.1.9(b)) divided by the operating schedule for that month (Condition 7.1.9(a)).

7.2 Unit 02: Cullet System (Handling, Storage, and Feeding)
 Control 02: Baghouses

7.2.1 Description

The cullet system consists of outdoor and shed storage, aggregate handling, and eleven conveyor belts. The cullet is transferred to storage via conveyors from the wareroom at the end of the glass making process. Cullet from the storage is then fed, when desired, via conveyors to the raw materials (weighing and mixing) process for charging into one of the two furnaces. Baghouses are used with the conveyors to control emissions.

7.2.2 List of Emission Units and Pollution Control Equipment

Emission Unit 02	Description	Emission Control Equipment
ES-11, 12, 13, 14, 15, 16, 53, 54, 55, 317, 318, 319, 320, 321, 322, 344, 345	Cullet System (Handling, Storage, and Feeding)	Baghouses

7.2.3 Applicability Provisions and Applicable Regulations

- a. An "affected cullet system" for the purpose of these unit specific conditions is a system as listed in Condition 7.2.2 and described in Condition 7.2.1.
- b. The affected cullet system is subject to 35 IAC 212.321(a), which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process 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).

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 baghouses 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 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 all cullet processed on a monthly and annually basis (tons);
- c. Records of mean monthly wind speed (miles/hour);
- d. Records of monthly (lbs/hr) and annual (tons/yr) aggregate PM emissions for the affected cullet system process, based on the Permittee's estimate of maximum emissions from the maximum hours of operation and the applicable emission factors, with supporting calculations; and

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- e. A maintenance log for the baghouses detailing all routine and non-routine inspection and maintenance performed.

7.2.10 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.

7.2.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.2.12 Compliance Procedures

Compliance with the emission limits in Conditions 5.5 and 7.2.3(b) from the affected cullet system (handling, storage, and feeding) shall be based on the recordkeeping requirements in Condition 7.2.9 and the emission factors and formulas listed below:

- a. From the provided permit application and taken from the similar process of uncontrolled batch handling and outside and shed storage of sand and gravel, the emission factors for PM-10 are as follows:

Affected cullet handling and feeding = 0.06
lb/ton of material handled; and

Affected cullet storage = 1.7 lb/acre/day
based on the cullet storage areas open to the
atmosphere

- b. $PM-10 \text{ Emission Rate (ton/yr)} = \text{Material Handled, (ton/hr)} * \text{The Operating Schedule (hr/yr)} * .06 \text{ lb/ton} * 1 \text{ ton}/2000 \text{ lb} + \text{affected cullet stored area (acres)} * 1.7 \text{ lb/acre/day} * \text{duration of storage (days)}$
- c. Note: the Material Handled (ton/hr) is the material processed on a monthly basis (Condition 7.1.9(b)) divided by the operating schedule for that month (Condition 7.1.9(a)).

7.3 Unit 03: Glass Melting Furnace #1 and Refiner
 Control 03: Electrostatic Precipitator and Lime Injection

7.3.1 Description

Glass Melting Furnace-Regenerative (Natural Gas fired, Side Port). 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. Raw materials and cullet are charged into the melting section, and then refined and temperature-conditioned to produce molten glass.

Particulate emissions are created by the vaporization and condensation of alkali sulfates. Gaseous emissions are generated by fuel (natural gas, propane, or fuel oil) combustion and raw material processing. Emissions from the furnace are controlled by good combustion practices (for NO_x and CO), hydrated lime injection (for SO₂), and use of an electrostatic precipitator (for PM and metals from colorants added).

7.3.2 List of Emission Units and Pollution Control Equipment

Emission Unit 03	Description	Emission Control Equipment
ES-1	Glass Melting Furnace #1 and Refiner (Melting and Conditioning)	Electrostatic Precipitator and Lime Injection

7.3.3 Applicability Provisions and Applicable Regulations

- a. The "affected glass melting furnace #1" for the purpose of these unit-specific conditions, is the unit used to melt and condition glass, as described in Condition 7.3.1 and listed in Condition 7.3.2.
- 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 215.301]. If no odor nuisance exists, this limitation shall apply only to photochemically reactive material.
- c. The affected glass melting furnace #1 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, to exceed the allowable emission rates specified in 35 IAC 212.322(c) (See also Attachment 2) [35 IAC 212.322(a)].

- d. The affected glass melting furnace is subject to the New Source Performance Standard (NSPS) for Glass Furnaces, 40 CFR 60 Subparts A and CC, because it was constructed after June 15, 1979.
- e. The Permittee shall not cause or allow the emission of SO₂ into the atmosphere from the affected glass melting furnace to exceed 2000 ppm [35 IAC 214.301].

7.3.4 Non-Applicability of Regulations of Concern

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.

7.3.5 Operational and Production Limits and Work Practices

- a. Operation in excess of the applicable particulate matter and sulfur dioxide emission standards in Condition 7.3.6 is allowed during malfunction or breakdown of this affected glass melting furnace. As provided by the NSPS, 40 CFR 60.292(e), the total duration of operation during malfunction and breakdown, including periods when control equipment is not operating due to scheduled maintenance activity, shall not exceed six (6) days per year. During these periods every effort shall be made to minimize emissions.

- b. The Permittee shall notify the Agency's regional office by telephone as soon as possible during normal working hours upon the occurrence of excess emissions due to malfunctions, or breakdowns. The Permittee shall comply with all reasonable and safe directives of the regional office regarding such malfunctions and breakdowns. Within five (5) working days of such occurrence the Permittee shall give a written follow-up notice to the Agency's regional office providing an explanation of the occurrence, the length of time during which operation continued under such conditions, measures taken by the Permittee to minimize excess emissions and correct deficiencies, and when normal operation resumed.
- c. The Permittee shall notify the Agency's regional office 10 days, or as soon as practical, prior to conducting maintenance activity which will result in emissions in excess of applicable standards. The notice shall include an explanation of the maintenance activity and the schedule for its completion.
- d. At all times, this affected glass melting furnace, including associated air pollution control equipment, to the extent practicable, shall be inspected, maintained and operated in a manner consistent with good air pollution control practice for minimizing emissions.
- e. The affected glass melting furnace uses natural gas as its primary fuel. However, the affected furnace may be fueled by #2 fuel oil or by propane.

7.3.6 Emission Limitations

- a. The particulate matter (PM) emissions from this affected glass melting furnace shall not exceed 0.45 lb per ton of glass produced, pursuant to the NSPS for Glass Furnaces [40 CFR 60.293(c)]. [T1]
- b. Application of Best Available Control Technology (BACT) for this affected glass melting furnace as required by Section 165 of the Clean Air Act (CAA) limits the emissions and operation of equipment as follows:

Emissions of nitrogen oxides (NO_x) to not more than 13.0 lb and sulfur dioxide (SO₂) to not more than 1.6 lb per ton of glass produced.
[T1]

Emission and operation of equipment shall not exceed the following limits and shall be measured on a block 24-hour average: [T1]

<u>Pollutant</u>	<u>(Lb/Hour)</u>	<u>(Ton/Yr)</u>
NO _x	406	1,800
SO ₂	50	219
PM	---	272

These above limitations were established in Permit 80100047, 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]

- c. Also, there are source wide emission limitations in Condition 5.5 that include this unit.

7.3.7 Testing Requirements

Upon reasonable request by the Illinois EPA, pursuant to Section 39.5(7)(d) of the Act, measurement of opacity shall be conducted in accordance with Method 9, 40 CFR part 60, Appendix A, and 35 IAC 212.109, so as to demonstrate compliance with the emission limits in Condition 7.3.3(c). The Permittee shall keep records of any such observations and promptly report the result to the Illinois EPA within 30 days.

7.3.8 Monitoring Requirements

- a. The Permittee shall install and operate flowmeters to monitor fuel consumption by type (natural gas, fuel oil, or propane) for this affected glass melting furnace on a monthly basis.
- b. The Permittee shall monitor the amount of glass

produced by this affected glass melting furnace on a daily basis.

7.3.9 Recordkeeping Requirements

- a. 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, 7.3.5, 7.3.6, and 7.3.7 pursuant to Section 39.5(7)(b) of the Act:
 - i. Records of glass production for the affected glass melting furnace, (tons/day, tons/mo, and tons/yr);
 - ii. Records of fuel consumption for the affected glass melting furnace, (tons/mo and tons/yr);
 - iii. Records of monthly and annual aggregate PM, NO_x, SO₂, VOC, and CO emissions from the affected glass melting furnace process shall be maintained, based on fuel usage and the applicable emission factors, with supporting calculations; and
 - iv. Records of measurements of opacity testing results when testing is required under Condition 7.3.7.
- b. The Permittee shall maintain records of excess emissions during malfunctions and breakdowns. As a minimum, these records shall include:
 - i. Date and duration of malfunction or breakdown;
 - ii. A full and detailed explanation of the cause for such emissions;
 - iii. The contaminants emitted and an estimate of the quantity of emissions;
 - iv. The measures used to reduce the quantity of emissions and the duration of the occurrence; and
 - v. The steps taken to prevent similar malfunctions or breakdowns or reduce their

frequency and severity.

7.3.10 Reporting Requirements

- a. The Permittee shall promptly notify the Illinois EPA, Compliance Section, of exceedances of emission limitations of Conditions 7.3.3 or 7.3.6 within 30 days of a record showing such an occurrence, and of any 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 exceedances or deviations and identify corrective actions or preventive measures taken.
- b. The Permittee shall promptly report the results of any opacity testing of an affected glass melting furnace conducted in accordance with Condition 7.3.7 to the Illinois EPA within 30 days to ensure compliance with the opacity limitations in Condition 7.3.3(c).

7.3.11 Operational Flexibility/Anticipated Operating Scenarios

The affected glass melting furnace shall be fired with natural gas, fuel oil, or propane as the fuel.

7.3.12 Compliance Procedures

Compliance with the emission limits in Condition 5.5, 7.3.3(b) and (c), and 7.3.6 from the affected glass melting furnace shall be based on the recordkeeping requirements in Condition 7.3.9 and the emission factors and formulas listed below:

For the affected glass melting furnace #1:

<u>Pollutant</u>	Glass Manufacturing Emission Factor (lb/ton)
PM	Neg.
NO _x	8.0
SO ₂	3.0
VOC	< 0.1
CO	< 0.1

These are the emission factors for PM, NO_x, SO₂, VOC and CO

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for glass manufacturing, melting furnace flat glass with electrostatic precipitator, 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) * (1 - Control Efficiency of control equipment) * 1 ton/2000 lb

- 7.4 Unit 04: New Glass Melting Furnace #2 and Refiner
 Control 04: Dry Scrubber, Electrostatic Precipator and Lime Injection

7.4.1 Description

Glass Melting Furnace-Regenerative (Natural Gas fired, Side Port). This new furnace constructed in 1994 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. Raw materials and cullet are charged into the melting section, and then refined and temperature-conditioned to produce molten glass.

Particulate emissions are created by the vaporization and condensation of alkali sulfates. Gaseous emissions are generated by fuel (natural gas, propane, or fuel oil) combustion and raw material processing. Emissions from the furnace are controlled by good combustion practices (for NO_x and CO), hydrated lime injection (for SO₂), and use of an electrostatic precipator (for PM and metals from colorants added).

7.4.2 List of Emission Units and Pollution Control Equipment

Emission Unit 04	Description	Emission Control Equipment
ES-67	Glass Melting Furnace #2	Dry Scrubber, Lime Injection, and Electrostatic Precipator

7.4.3 Applicability Provisions and Applicable Regulations

- a. The affected glass melting furnace #2 for the purpose of these unit-specific conditions, is a unit used to melt and condition glass, as listed in Condition 7.4.2 and described in Condition 7.4.1.
- 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 #2 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)].

- d. The affected glass melting furnace is subject to the New Source Performance Standard (NSPS) governing PM emissions for Glass Furnaces, 40 CFR 60 Subparts A and CC, because it was constructed after June 15, 1979.
- e. The affected glass melting furnace is subject to the Prevention of Significant Deterioration of Air Quality (PSD) governing SO₂ and NO_x emissions, pursuant to 40 CFR 52.21, with emission limitations as stated in Condition 7.4.6.
- f. The Permittee shall not cause or allow the emission of SO₂ into the atmosphere from the affected glass melting furnace to exceed 2000 ppm [35 IAC 214.301].

7.4.4 Non-Applicability of Regulations of Concern

- a. 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.
- b. This permit is issued based on the affected glass melting furnace not being subject to PSD, 40 CFR 52.21, governing PM and CO emissions, because the increase in emissions when this affected source furnace replaced the previous furnace in 1994 was not significant.

7.4.5 Operational and Production Limits and Work Practices

- a. At all times, the Permittee shall maintain and operate affected glass furnace #2, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions, as required per NSPS, 40 CFR 60.11(d).
- b. Notwithstanding the above, as addressed by the NSPS, 40 CFR 60.292(e), the Permittee may operate without the electrostatic precipitator system (ESP) in service during routine maintenance of the ESP, provided that:
 - i. Routine maintenance in each calendar year does not exceed 6 days;
 - ii. Routine maintenance is conducted in a manner consistent with good air pollution control practice for minimizing emissions, and
 - iii. A report is submitted to the Agency 10 days before the start of maintenance, or otherwise as soon as practicable, containing an explanation of the schedule of maintenance.
- c. The Permittee shall notify the Agency's regional office by telephone as soon as possible during normal working hours upon the occurrence of excess emissions due to malfunctions, breakdowns, or hot holds. The Permittee shall comply with all reasonable and safe directives of the regional office regarding such malfunctions and breakdowns. Within five (5) working days of such occurrence the Permittee shall give a written follow-up notice to the Agency's regional office providing an explanation of the occurrence, the length of time during which operation continued under such conditions, measures taken by the Permittee to minimize excess emissions and correct deficiencies, and when normal operation resumed.
- d. The Permittee shall notify the Illinois EPA's regional office within 10 days, or as soon as practical, prior to conducting maintenance activity which will result in emissions in excess of applicable standards. The notice shall include an explanation of the maintenance

activity and the schedule for its completion.

- e. The affected glass melting furnace uses natural gas as its primary fuel. However, the affected furnace may be fueled by #2 fuel oil or by propane.

7.4.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, application of Best Available Control Technology (BACT) for this affected glass melting furnace #2 as required by Section 165 of the Clean Air Act (CAA) limits the emissions and operation of equipment as follows:

- a. Emissions of the affected glass furnace #2 shall not exceed 12.25 lbs. of NO_x and 0.896 lbs. of SO₂ per ton of glass produced by the furnace. Compliance with these limits shall be determined by testing in accordance with the requirements in Condition 7.4.7 at the maximum operating range of the furnace [T1].
- b. Emission and operation of equipment shall not exceed the following limits and shall be measured on a block 24-hour average [T1]:

<u>Pollutant</u>	<u>(Lb/Hour)</u>	<u>(Ton/Yr)</u>
NO _x	385	1,687
SO ₂	28	122.6
PM	7.2	31.5
CO	10	44.0

- c. The particulate matter emissions from the affected glass furnace #2 shall not exceed normal distribution of average opacity values (0.45 lb of PM per ton of glass produced by the furnace) pursuant to NSPS, 40 CFR 60.293(c).
- d. The above limitations were established in Permit 94060097 pursuant to 40 CFR 52.21. 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 40 CFR 52.21 [T1].

7.4.7 Testing Requirements

- a. Upon reasonable request by the Illinois EPA, pursuant to Section 39.5(7)(d) of the Act, emission measurements shall be conducted as follows, so as to demonstrate compliance with the emission limits in Condition 7.4.3(c) and 7.4.6. The Permittee shall keep records of any such observations and promptly report the result to the Illinois EPA within 30 days:
 - i. PM emission measurements shall be made in accordance with 40 CFR 60, Appendix A, Method 5, and 40 CFR 60.296.
 - ii. NO_x emission measurements shall be made in accordance with 40 CFR 60, Appendix A, Method 7, 7A, or 7E
 - iii. SO₂ emission measurements shall be made in accordance with 40 CFR 60, Appendix A, Method 6.
 - iv. CO emission measurements shall be made in accordance with 40 CFR 60, Appendix A, Method 10.

- v. Opacity of stack emissions shall be determined in accordance with 40 CFR 60, Appendix A, Method 9.

- b. The Permittee will conduct emission tests for PM, NO_x, SO₂, CO, and/or opacity of stack emissions within 90 days of a written Agency request. The Illinois EPA shall be notified prior to each of these tests to enable the Agency to observe these tests. Notification for the expected date of testing shall be submitted a minimum of thirty (30) days prior to the expected date, and shall be accompanied by a detailed plan describing the testing which will be performed. Notification of the actual date and expected time of testing shall be submitted a minimum of five (5) working days prior to the actual date of the test. The Agency may at its discretion accept notifications with shorter advance notice provided that the Agency will not accept such notifications if it interferes with the Agency's ability to observe testing.

7.4.8 Monitoring Requirements

- a. The Permittee shall install, operate, calibrate and maintain, a continuous monitoring system for the measurement of the opacity of emission discharged into the atmosphere from the affected glass furnace #2.

- b. The Permittee shall install, operate, calibrate and maintain a continuous emission monitoring system to measure NO_x and SO₂ emissions discharged into the atmosphere from the affected glass furnace #2.

- c. These monitors shall be installed to satisfy the applicable performance specifications in 40 CFR 60, Appendix B.

- d. These monitors shall determine emission in lbs/hour, as a block 24-hour average.

- e. The Permittee shall install and operate meters to measure and record fuel consumption by the glass furnace.

7.4.9 Recordkeeping Requirements

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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, 7.4.4, 7.4.5, 7.4.6, 7.4.7, and 7.4.8 pursuant to Section 39.5(7)(b) of the Act:

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- a. The Permittee shall operate and maintain on a daily basis, monthly and annually records of glass production, for the affected glass furnace #2, ton/mo and ton/yr;
- b. The Permittee shall maintain records for the operation and maintenance of the affected glass furnace #2 and all associated emissions control equipment on a daily basis;
- c. The operating schedule of the affected glass furnace #2 or the number of hours that the furnace has been operated;
- d. Records of monthly and annual gaseous fuel consumption per type of fuel used to fire the affected glass furnace #2, mmscf/mo and mmscf/yr;
- e. Records of monthly and annual aggregate PM, NO_x, SO₂, and CO emissions from the affected glass melting furnace shall be maintained, based on fuel usage and the applicable emission factors, with supporting calculations, ton/mo and ton/yr;
- f. Records of excess emissions due to malfunctions or breakdowns to include:
 - i. An explanation of the occurrence;
 - ii. Duration of time during which operation continued under such conditions;
 - iii. Measures taken by the Permittee to minimize excess emissions and correct deficiencies; and
 - iv. Amount and type of excess emissions in lb/hr.
- g. Records of measurements of opacity testing results when testing is required under Condition 7.4.7;
- h. Records of measurements of PM, NO_x, SO₂, and CO emissions testing results when testing is required under Condition 7.4.7; and
- i. The Permittee shall maintain a log or file of all measurements, including continuous monitoring systems

performance evaluations; all continuous monitoring systems performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection.

7.4.10 Reporting Requirements

- a. The Permittee shall submit a written report of all excess emissions to the Illinois EPA and Field Engineer for every calendar quarter which includes the following:
 - i. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), and conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions.
 - ii. Specific identification of each period of excess emissions that occurs during startups, shutdowns, malfunctions or breakdowns, and hot holds of the furnace. The nature and cause of any malfunction, breakdown, or hot hold (if known) and the corrective action taken or preventative measures adopted shall also be reported.
 - iii. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments.
 - iv. When no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in the report.
 - v. Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limit for the purpose of this permit, unless such excess emissions are otherwise executed by regulation or other

permitting conditions including but not limited to malfunctions, break downs, or startups.

vi. The excess emissions for opacity pursuant to NSPS, 40 CFR 60.293(c) as based from special condition 7.4.6(c).

b. The Permittee shall report to the Agency the results of any emissions testing of the affected glass furnace #2 in accordance with Condition 7.4.7(a) within 30 days to ensure compliance with the emissions limitations in Conditions 7.4.3(c) and 7.4.6.

7.4.11 Operational Flexibility/Anticipated Operating Scenarios

The affected glass melting furnace #2 shall be fired with natural gas, fuel oil, or propane as the fuel.

7.4.12 Compliance Procedures

Compliance with the emission limitations of Conditions 5.5, 7.4.3(c) and 7.4.6 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:

a. For the affected glass furnace #2 a monthly rolling average calculation of annual emissions (ton/mo):

Emissions (ton/yr) = Quantity of glass produced (ton/yr of product) * Emission Factor (lb/ton for specific pollutant) * (1 - Control Efficiency of control equipment) * 1 ton/2000 lb

The emission factors for PM, NO_x, SO₂, and CO for the affected glass furnace #2 with electrostatic precipitator, will be those determined by the original source emissions testing conducted on this affected glass furnace #2 or new emission factors accepted by the Agency if testing is conducted and reported in accordance with Condition 7.4.7(a).

b. For the affected glass furnace #2 an average hourly

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rate of emissions will be based on the monthly
production tabulated values and the formula below:

Emissions (lb/hr) = Quantity of glass produced (ton/mo
of product) * Emission Factor (lb/ton for specific
pollutant) * (1 - Control Efficiency of control
equipment) * 1 mo/# hr (of operation for that month)

The emission factors for PM, NO_x, SO₂, and CO
for the affected glass furnace #2 with
electrostatic precipitator, will be those
determined by the original source emissions
testing conducted on this affected glass
furnace #2 or new emission factors accepted by
the Illinois EPA if testing is conducted and
reported in accordance with Condition
7.4.7(a).

- 7.5 Units 05: Surface Treatment, Interleaving, and Coating Operations
Control 05: Condenser, Oxidizer, Ammonia Injection, Baghouses,
and Surface Treatment Vents

7.5.1 Description

Molten glass exits the glass furnaces and flows onto the surface of the molten tin float bath. Electric heating elements control temperatures within the bath where a nitrogen atmosphere is maintained to prevent the tin from oxidation. There are virtually no air pollutant emissions.

Rollers at the bath exit lift the floating ribbon of glass into the annealing lehrs for cooling and annealing. SO₂ gas is applied as a surface treatment to the bottom of the molten glass to prevent bottom surface marking of the glass as it contacts the lift-out rollers. A ventilation system for exhausting SO₂ emissions through vents was installed in 1987 (for Line #1) and 1988 (for Line #2).

As the glass ribbon exits the annealing lehrs, an aqueous solution of interleaving material is sprayed on the top surface of the glass to separate panes when stacked. The particulate from overspray is collected by wet scrubbers. Under normal conditions, the glass overspray from each interleaving unit is routed to a packed-bed scrubber. About once a month, however, each scrubber must be shut down for a few hours of cleaning and maintenance to prevent clogging while glass production continues.

In addition, there are two coating lines which provide coating application through pyrolytic and vacuum deposition. Both coating lines produce low-emissivity glass products. For the vacuum deposition process, the cut lites are routed to an off-line coater, where a metallic coating is applied; there are virtually no emissions from this process. The pyrolytic coating process is applied on-line as part of the continuous flat glass making. Pyrolytic coating emission source and air pollution control equipment consists of a top coater with condenser, a cyclone separator, mist eliminator, ammonia injector, baghouse with dust collectors, gradient coater with thermal oxidizer, and material storage tanks with a static scrubber.

7.5.2 List of Emission Units and Pollution Control Equipment

Emission Unit 05	Description	Emission Control Equipment
ES-45, 46, 52, 57, 61, and 62	Surface Treatment, Interleaving, and Coating Operations	Condenser, Oxidizer, Ammonia Injector, Baghouses, Scrubbers, and Surface Treatment Vents

7.5.3 Applicability Provisions and Applicable Regulations

- a. The affected surface treatment, interleaving, and coating operations for the purpose of these unit specific conditions are the emission units listed in Condition 7.5.2 and described in Condition 7.5.1.
- 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 coating lines and surface treatment [35 IAC 215.301]. If no odor nuisance exists this limitation shall apply only to photochemically reactive material.
- c. Emissions of organic material in excess of those stated in Condition 7.5.3(b) above are allowable if such emissions are controlled by any air pollution control equipment approved by the Agency capable of reducing by 85% or more the uncontrolled organic material that would be otherwise emitted to the atmosphere [35 IAC 215.302(c)].
- d. 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].
- e. The affected surface treatment, interleaving, and coating operations are subject to 35 IAC 212.321(a), which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process 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,

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exceeds the allowable emission rates specified
in 35 IAC 212.321(c) (See also Attachment 2)
[35 IAC 212.321(a)].

- f. No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30% into the atmosphere from this affected process emission unit. [35 IAC 212.123]

7.5.4 Non-Applicability of Regulations

N/A

7.5.5 Operational and Production Limits and Work Practices

At all times, this affected glass finishing operation, including associated air pollution control equipment shall be inspected, maintained, and operated in a manner consistent with good air pollution control practice for minimizing emissions.

7.5.6 Emission Limitations

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

- a. Emissions of SO₂ for Line #1 shall not exceed 34.2 tons/yr. Emissions of SO₂ for Line #2 shall not exceed 34.1 tons/yr. These limits are based on the maximum emission rate (17.7 lbs/hr) and the maximum hours of operation (8760 hr/yr). These limitations were established in Operating Permits 87030082 and 88060041 respectively, pursuant to 35 IAC Part 203.

These limits ensure that the construction and/or modification addressed in the aforementioned permits do not constitute a new major source or major modification pursuant to Title I of the CAA, specifically 35 IAC Part 203. [T1]

- b. Emissions from the coating process (combination of top coater and gradient coater) shall not exceed the amounts specified in the table below:

	<u>(lbs/hr)</u>	<u>(tons/yr)</u>
Total Fluorides	2.5	5.0
Methylisobutylketone (MIBK)	3.3	6.6
Butane	6.7	13.4
Ammonia	21.2	42.4
Particulate Matter	2.5	5.0
Antimony	0.1	0.2

These emission limits are based on the Permittee's estimate of maximum emissions and maximum hours of operation (4000 hrs/yr) indicated in Operating Permit 88020043, , pursuant to 35 IAC Part 203. These limits

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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

N/A

7.5.8 Monitoring Requirements

N/A

7.5.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected coating lines and surface treatment to demonstrate compliance with Conditions 5.5.1, 7.5.3, and 7.5.6, pursuant to Section 39.5(7)(b) of the Act:

- a. Records addressing use of good operating practices for the affected coating lines and surface treatment filters, scrubbers, and vents:
 - i. Records for periodic inspection of the affected top coater with condenser, cyclone separator, mist eliminator, ammonia injector, baghouse with dust collectors, gradient coater with thermal oxidizer, and material storage tanks with a static scrubber with date, individual performing the inspection, and nature of inspection; and
 - ii. Records for prompt repair of defects, with identification and description of defect, effect on emissions, date identified, date repaired, and nature of repair;
- b. Coating usage of the affected coating operations, gal/mo and gal/yr;
- c. VOM content of coatings, percent by weight;
- d. Density of coatings, lb/gal;
- e. HAP content of coatings;
- f. Cleanup solvent usage, gal/mo and gal/yr;
- g. Density of solvent, lb/gal;

- h. The operating schedule of the affected coating lines;
and
- i. Monthly (lbs/hr) and annual (tons/yr) aggregate SO₂; PM; total HAP and Fluorides, MIBK, Butane, Ammonia, Antimony; and other volatile organic material (VOM) emissions shall be maintained, based on the Permittee's estimate of maximum emissions and maximum hours of operation and the typical hourly emission rate, as determined from results of stack tests, with supporting calculations.

7.5.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, exceedances of emission limitations of Conditions 7.5.3 or 7.5.6 within 30 days of a record showing such an occurrence, and of any deviations of the affected surface treatment, interleaving, and coating operations 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 exceedances or deviations and identify 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 limits in Conditions 5.5, 7.5.3(b),(c), and (d), and 7.5.6 from the affected surface treatment, interleaving, and coating operations shall be based on the recordkeeping requirements in Condition 7.6.9 and the emission factors and formulas listed below:

- a. Compliance with Conditions 7.1.3(b) and (c) is assumed by proper operation of the affected surface treatment, interleaving, and coating operations top coater with condenser, cyclone separator, mist eliminator, ammonia injector, baghouse with dust collectors, gradient coater with thermal oxidizer, and material storage tanks with a static scrubber, as addressed by Conditions 7.5.5 and 7.1.9(a).

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b. To determine compliance with Condition 5.5.1, PM and VOM emissions from the affected surface treatment, interleaving, and coating operations shall be calculated based on the following:

i. Volatile Organic Material Emissions:

$$\text{VOM (lb)} = [(\text{Coating Usage, gal}) \times (\text{Coating Density, lb/gal}) \times (\text{VOM Content of Coating, \% by Wt.})] + [(\text{Cleaning Solvent Usage, gal}) \times (\text{Solvent Density, lb/gal})]$$

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ii. Particulate Matter Emissions:

$$\begin{aligned} \text{PM (lb)} &= (\text{Wt of Coating Used, lb}) \times (\text{Wt \%} \\ &\text{Solids}) \times [1 - (\text{Transfer Efficiency}^* (\%)/100)] \\ &\times [1 - (\text{Filter or Scrubber Efficiency}^* \\ &(\%)/100)] \end{aligned}$$

7.6 Unit 06: Finishing Operations (Cutting, Packing, Shipping)
 Control 06: N/A

7.6.1 Description

The final glass making process occurs when the glass passes through a computer-controlled inspection booth where defects are located and marked. Cut "lites" (discrete glass sections) containing these marked defects are later scrapped and returned as cullet for re-melting. As the remaining glass ribbon travels toward the packing area on roller conveyors, glass cutting wheels automatically score the ribbon parallel to and at right angles to travel, to define the final glass size and to remove nonsalable ribbon edges. As the ribbon proceeds down the line, right-angle, edge-trim scores and parallel scores are "snapped" to form the individual glass lites. The glass lites are then stacked and packaged for shipment. Trimmed and nonsalable glass are scrapped and returned as cullet for re-melting. Wooden boxes are produced for glass shipping containers. Almost all emissions from this wood production process are captured through the use of fabric filter vents.

7.6.2 List of Emission Units and Pollution Control Equipment

Emission Unit 06	Description	Emission Control Equipment
ES-23	Finishing Operation (Cutting, Packing, Shipping)	Fabric Filter Vents

7.6.3 Applicability Provisions and Applicable Regulations

- a. An "affected glass finishing operation" for the purpose of these unit specific conditions is a finishing operation as identified in Condition 7.6.2 and as described in Condition 7.6.1.
- 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. [35 IAC 212.123]
- c. The affected glass finishing operation is subject to 35 IAC 212.321(a), which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit, 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).

7.6.4 Non-Applicability of Regulations of Concern

N/A

7.6.5 Operational and Production Limits and Work Practices

At all times, this affected glass finishing operation, including associated air pollution control equipment shall be inspected, maintained, and operated in a manner consistent with good air pollution control practice for minimizing emissions.

7.6.6 Emission Limitations

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

N/A

7.6.7 Testing Requirements

N/A

7.6.8 Monitoring Requirements

None

7.6.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for each affected glass finishing operations 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 finishing operations (hr/mo and hr/yr);
- b. The monthly and annual PM emissions (tons).

7.6.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected glass finishing operations 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

None

7.6.12 Compliance Procedures

Compliance with the emission limits in Conditions 5.5 and 7.6.3 from the affected glass finishing operations shall be based on the recordkeeping requirements in Conditions 7.6.9 and the proper use and maintenance of the control equipment as required in Condition 7.6.5.

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

7.7 Unit 07: Boilers (4)
 Control 07: None

7.7.1 Description

Four plant boilers were constructed in January 1980 to provide plant heat and hot water for this source. Three boilers built by Orr-Semblower are rated at a maximum of 8.4 mmBtu/hr, the fourth built by Kawanee is rated at 11.7 mmBtu/hr when fired by natural gas. Each of the boilers may operate on either natural gas (normally used) or distillate fuel oil.

7.7.2 List of Emission Units and Pollution Control Equipment

Emission Unit 07	Description	Emission Control Equipment
ES-25, 26, 27, 28	Boilers	N/A

7.7.3 Applicability Provisions and Applicable Regulations

- a. An "affected boiler" for the purpose of these unit specific conditions is a boiler listed in Condition 7.7.2 and described in Condition 7.7.1.
- 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. [35 IAC 212.123]

7.7.4 Non-Applicability of Regulations

This permit is issued based on the affected boilers not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the affected boilers do not use an add-on control device to achieve compliance with an emission limitation or standard.

7.7.5 Operational and Work Practices

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

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7.7.6 Emission Limitations

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

- a. The affected boilers are subject to 35 IAC 212.207, which limits the emission of particulate matter (PM) into the atmosphere in any one hour period from the affected boilers burning either natural gas or distillate fuel oil to less than 0.10 lb/mmBtu.
- b. No person shall cause or allow the emission of SO₂ into the atmosphere in any one hour period from any new fuel combustion source with actual heat input smaller than 250 mmBtu/hr, burning liquid fuel exclusively to exceed 0.3 lb of SO₂/mmBtu of actual heat input when distillate fuel oil is burned.
[35 IAC 214.122(b)(2)]
- c. Emissions of nitrogen dioxide and carbon monoxide from Boiler #4 (ES-28) shall not exceed 10.9 and 1.0 tons/yr, respectively. These limits were established in Permit #80100047, pursuant to 40 CFR 60 Subpart CC, New Source Performance Standard (NSPS). They 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 NSPS, 40 CFR 60.290. [T1]

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 items for the affected boilers to demonstrate compliance with Conditions 5.5.1 and 7.7.6, pursuant to Section 39.5(7)(b) of the Act:

- a. Records of fuel consumption for the affected boilers, (mmcf/mo and mmcf/yr for natural gas and mmgal/mo and mmgal/yr for fuel oil);
- b. Records of monthly and annual aggregate PM, NO_x, SO₂,

and CO emissions (tons/mo and tons/yr) from the affected boilers shall be maintained, based on fuel usage and the applicable emission factors, with supporting calculations, and

- c. Records of the sulfur content of the fuel oil used to fire the affected boilers.

7.7.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA Compliance Section of deviations of an affected boiler 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

The affected boilers shall be fired with either natural gas or distillate fuel oil.

7.7.12 Compliance Procedures

Compliance with the emission limits in Conditions 5.5, and 7.7.6 from the affected boilers shall be based on the recordkeeping and reporting requirements in Conditions 7.7.9 and 7.7.10 and the emission factors and formulas as described below:

- a. Natural Gas-Fired Boiler Emissions (tons/yr) = Rated capacity (mmBtu/hr) * Hours of Operation (8760 hr/yr) X Fuel Usage (mmcf)/1000 mmBtu * Specific Emission Factor (e.g., 7.6 lb PM/mmcf of gas fired) * 1 ton/2000 lb

Specific emission factors for these affected natural gas-fired boilers are found in Table 1.4-1 of AP-42.

- b. Fuel Oil-Fired Boiler Emissions (tons/yr) = Rated capacity (mmBtu/hr) * Hours of Operation (8760 hr/yr) X Fuel Usage (mmgal)/140 mmBtu * Specific Emission Factor (e.g., 5 lb CO /mmgal of oil fired) * 1 ton/2000 lb

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Specific emission factors for these affected fuel oil-fired boilers are found in Table 1.3-1 of AP-42, Volume I, Fifth Edition, January 1995.

7.8 Unit 08: Emergency Diesel Engines (5)
 Control 08: N/A

7.8.1 Description

Stationary internal combustion engines are used as backup emergency power when electricity goes off at the facility. These engines use diesel fuel oil (No. 2 grade).

7.8.2 List of Emission Units and Pollution Control Equipment

Emission Unit 08	Description	Emission Control Equipment
ES-58, 59, 96, 97	Emergency Diesel Engines (4)	N/A
ES-352	Backup Diesel Engine (1)	N/A

7.8.3 Applicability Provisions and Applicable Regulations

- a. An "affected emergency diesel engine" for the purpose of these unit specific conditions is a diesel engine listed in Condition 7.8.2 and described in Condition 7.8.1.
- 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. [35 IAC 212.123]
- c. No person shall cause or allow the discharge of more than 8 lb/hr (3.6 kg/hr) of organic material into the atmosphere from any emission source except if no odor nuisance exists the limitation of this condition shall apply only to photochemically reactive material. [35 IAC 215.301]
- d. An affected emergency diesel engine is subject to 35 IAC 212.321 and 214.301.

7.8.4 Non-Applicability of Regulations

This permit is issued based on the affected emergency diesel engines not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary

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Sources, because the affected diesel engines do not use an add-on control device to achieve compliance with an emission limitation or standard.

7.8.5 Operational and Work Practices

All equipment shall be operated and maintained in a safe and efficient manner to minimize air emissions.

7.8.6 Emission Limitations

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

- a. The affected diesel engines are subject to 35 IAC 212.321(a), which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit, 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).

- b. Pursuant to 35 IAC 214.301, the affected diesel engines shall not cause or allow the emission of sulfur dioxide into the atmosphere to exceed 2000 ppm.
- c. Emissions and operation of the affected emergency diesel engines ES-58, 59, 96, and 97 shall not exceed the following limits (total for all four units):

Operating Hours (Hour/Year)	NO _x Emissions (Lb/mmBtu) (Ton/Yr)	
1,000	3.71	15.4

Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total). The above limitations were established in Permit #80100047, 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

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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]

- d. Emissions and operation of the affected [backup] emergency diesel engine ES-352 shall not exceed the following limits:

<u>Operating Hours</u>		<u>NO_x Emissions</u>	
(Hour/Year)		(Lb/Hr)	(Ton/Yr)
500		58.4	14.60

<u>PM Emissions</u>		<u>CO Emissions</u>		<u>VOM Emissions</u>		<u>SO₂ Emissions</u>	
(Lb/Hr)	(T/Yr)	(Lb/Hr)	(T/Yr)	(Lb/Hr)	(T/Yr)	(Lb/Hr)	(T/Yr)
1.0	0.25	13.6	3.40	1.8	0.45	3.6	0.90

These limits are based on manufacturer's data for PM, CO, NO_x, and SO₂ and standard AP-42 emission factors for VOM. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total). The above limitations were established in Permit #97060075, 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 Inspection Requirements

N/A

7.8.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected emergency diesel engines to demonstrate compliance with Conditions 5.5.1 and 7.8.6, pursuant to Section 39.5(7)(b) of the Act:

- a. Records of hours of operation for each affected diesel engine and total hours of operation for the four engines ES-58, 59, 96, and 97 (hr/mo and hr/year); and
- b. Records of hourly and annual aggregate PM, CO, VOM, NO_x, and SO₂ emissions (lb/hr and tons/yr) from the affected diesel engines shall be maintained, based on rated capacity, hours of operation, and the applicable emission factors, with supporting calculations.
- c. Records of the sulfur content of the diesel fuel oil used to fire the affected diesel engines.

7.8.10 Reporting Requirements

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

7.8.11 Operational Flexibility

N/A

7.8.12 Compliance Procedures

Compliance with the emission limits in Conditions 5.5 and 7.8.6 from the affected emergency diesel engines shall be based on the recordkeeping and reporting requirements in Conditions 7.8.9 and 7.8.10 and the formula(s) listed below:

$$\text{Emergency Diesel Engine Emissions (tons/yr)} = \text{Rated capacity (HP)} * \text{Hours of Operation (hr/yr)} * \text{Specific Emission Factor (e.g., .031 lb NO}_x\text{/HP-hr)} * 1 \text{ ton/2000 lb}$$

Specific emission factors for these affected fuel oil-fired emergency diesel engines are found in Table 3.3-1 of AP-42, Volume I, Fifth Edition, January 1995.

7.9 Unit 09: Gasoline Storage Tank

7.9.1 Description

The Permittee operates a fixed roof storage tank that stores unleaded gasoline. Permanent submerged loading must be used for this tank, minimizing turbulence and evaporation of VOM during loading.

7.9.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
ES-329	550 Gallon Gasoline Storage Tank with Submerged Loading Pipe	None

7.9.3 Applicability Provisions and Applicable Regulations

- a. Gasoline Tank ES-329 is an "affected tank" for the purpose of these unit-specific conditions.
- b. No person shall cause or allow the loading of any organic material into any stationary tank having a storage capacity of greater than 946 l (250 gal), unless such tank is equipped with a permanent submerged loading pipe or an equivalent device approved by the Illinois EPA according to the provisions of 35 IAC 201, or unless such tank is a pressure tank as described in 35 IAC 215.121(a) or is fitted with a recovery system as described in 35 IAC 215.121(b)(2) [35 IAC 215.122(b)].
- c. No person shall cause or allow the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from any emission unit, except as provided in 35 IAC 215.302, 215.303, or 215.304 and the following exemption: If no odor nuisance exists the limitation of 35 IAC 215 Subpart G shall only apply to photochemically reactive material [35 IAC 215.301].
- d. Pursuant to 35 IAC 215.583(a), no person shall cause or allow the transfer of gasoline from any delivery vessel into any stationary storage tank at a gasoline dispensing operation unless:

- i. The tank is equipped with a submerged loading pipe [35 IAC 215.583(a)(1)]; and
- ii. Pursuant to 35 IAC 215.583(a)(2), the vapors displaced from the storage tank during filling are processed by a vapor control system that includes one or more of the following:
 - A. A vapor collection system that meets the requirements of Condition 7.x.5(c) (see also 35 IAC 215.583(d)(4)) [35 IAC 215.583(a)(2)(A)]; or
 - B. A refrigeration-condensation system or any other system approved by the Illinois EPA that recovers at least 90 percent by weight of all vaporized organic material from the equipment being controlled [35 IAC 215.583(a)(2)(B)]; and
 - C. The delivery vessel displays the appropriate sticker pursuant to the requirements of 35 IAC 215.584(b) or (d) [35 IAC 215.583(a)(2)(C)].

7.9.4 Non-Applicability of Regulations of Concern

- a. The affected tank is not subject to the NSPS for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984, 40 CFR 60 Subpart Kb, because the affected tank was constructed prior to 1984.
- b. The affected tank is not subject to the requirements of 35 IAC 215.123, Petroleum Liquid Storage Tanks, pursuant to 35 IAC 215.123(a)(2), which exempts storage tanks with a capacity less than 151.42 m³.

7.9.5 Operational and Production Limits and Work Practices

- a. The affected tank shall only be used for the storage

of gasoline.

- b. Pursuant to 35 IAC 215.583(c), each owner of a gasoline dispensing operation shall:
 - i. Install all control systems and make all process modifications required by Condition 7.9.3(d) (see also 35 IAC 215.583(a)) [35 IAC 215.583(c)(1)];
 - ii. Provide instructions to the operator of the gasoline dispensing operation describing necessary maintenance operations and procedures for prompt notification of the owner in case of any malfunction of a vapor control system [35 IAC 215.583(c)(2)]; and
 - iii. Repair, replace or modify any worn out or malfunctioning component or element of design [35 IAC 215.583(c)(3)].
- c. Pursuant to 35 IAC 215.583(d), each operator of a gasoline dispensing operation shall:
 - i. Maintain and operate each vapor control system in accordance with the owner's instructions [35 IAC 215.583(d)(1)];
 - ii. Promptly notify the owner of any scheduled maintenance or malfunction requiring replacement or repair of a major component of a vapor control system [35 IAC 215.583(d)(2)];
 - iii. Maintain gauges, meters or other specified testing devices in proper working order [35 IAC 215.583(d)(3)]; and
 - iv. Pursuant to 35 IAC 215.583(d)(4), operate the vapor collection system and delivery vessel unloading points in a manner that prevents:
 - A. A reading equal to or greater than 100 percent of the lower explosive limit (LEL measured as propane) when tested in accordance with the procedure described

in EPA 450/2-78-051 Appendix B [35 IAC
215.583(d)(4)(A)]; and

- B. Avoidable leaks of liquid during the
filling of storage tanks [35 IAC
215.583(d)(4)(B)].

7.9.6 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.

7.9.7 Testing Requirements

Within 15 business days after discovery of the leak by
the owner, operator, or the Illinois EPA, repair and
retest a vapor collection system which exceeds the limits
of Condition 7.9.5(c)(iv)(A) (see also 35 IAC
215.583(d)(4)(A)) [35 IAC 215.583(d)(5)].

7.9.8 Monitoring Requirements

None

7.9.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the
Permittee shall maintain records of the following items
for the affected tank to demonstrate compliance with
Conditions 5.5.1, 7.9.3, and 7.9.5, pursuant to Section
39.5(7)(b) of the Act:

- a. Records of the testing of the affected tank pursuant
to Condition 7.9.7, which include the following
[Section 39.5(7)(e) of the Act]:
- i. The date, place and time of sampling or
measurements;
 - ii. The date(s) analyses were performed;
 - iii. The company or entity that performed the
analyses;
 - iv. The analytical techniques or methods used;

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

7.9.10 Reporting Requirements

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

- a. Any storage of VOL in an affected tank that is not in compliance with the requirements of Conditions 7.9.3(b) and (d)(i) (see also 35 IAC 215.122(b) and 215.583(a)(1)), e.g., no "permanent submerged loading pipe," within five days of becoming aware of the non-compliance status. This notification shall include a description of the event, the cause for the non-compliance, actions taken to correct the non-compliance, and the steps taken to avoid future non-compliance;
- b. Any storage of VOL in an affected tank that is out of compliance with the requirements of Conditions 7.9.3(b) and (d)(i) (see also 35 IAC 215.122(b) and 215.583(a)(1)) due to damage, deterioration, or other condition of the loading pipe, within 30 days

of becoming aware of the non-compliance status.
This notification shall include a description of the event, the cause for the non-compliance, actions taken to correct the non-compliance, and the steps to be taken to avoid future non-compliance;

- c. The storage of any VOL or VPL other than the material specified in Condition 7.9.5(a) within 30 days of becoming aware of the non-compliance status.
This notification shall include a description of the event, the cause for the non-compliance, actions taken to correct the non-compliance, and the steps to be taken to avoid future non-compliance.

7.9.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.9.12 Compliance Procedures

Compliance with the emission limits shall be based on the recordkeeping requirements in Condition 7.9.9 and the emission factors and formulas listed below:

For the purpose of estimating VOM emissions from the affected tank to determine compliance with Conditions 5.5.1 and 7.9.3(c), Versions 3.1 or 4.0 of the TANKS program are acceptable.

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]:

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

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

8.6.2 Test Notifications

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

- a. The name and identification of the affected unit(s);

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- 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

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ii. Illinois EPA - Air Regional Field Office

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

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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

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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

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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].

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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

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- c. Limits for Process Emission Units For Which
Construction of Modification Commenced On or After
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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

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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

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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. Significant Permit Modification

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

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

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

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

- Form 273-CAAPP, REQUEST FOR ADMINISTRATIVE PERMIT AMENDMENT FOR CAAPP PERMIT; or
- Form 271-CAAPP, MINOR PERMIT MODIFICATION FOR CAAPP PERMIT; or

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- 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
	I.D. number:
	Permit number:
	Date received:

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

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

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? <input type="checkbox"/> Owner <input type="checkbox"/> Operator	20. All correspondence to: (check one) <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Source
21. Attention name and/or title for written correspondence:	

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.



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22. Technical contact person for application:	23. Contact person's telephone number:
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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	
<p>24. Does the application address whether the proposed project would constitute a new major source or major modification under each of the following programs:</p> <p>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?</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>25. Does the application identify and address all applicable emissions standards, including those found in the following:</p> <p>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?</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>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?</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>27. Does the application include a complete process description for the emission units and control equipment for which a permit is being sought?</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>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.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>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?</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable, No TRADE SECRET information in this application

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

Signature Block	
<p>This certification must be signed by a responsible official. Applications without a signed certification will be returned as incomplete.</p>	
<p>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:</p>	
<p>BY:</p>	<p>_____</p> <p style="text-align: center;">AUTHORIZED SIGNATURE</p> <p>_____</p> <p style="text-align: center;">TYPED OR PRINTED NAME OF SIGNATORY</p>
	<p>_____</p> <p style="text-align: center;">TITLE OF SIGNATORY</p> <p>_____ / _____ / _____</p> <p style="text-align: center;">DATE</p>

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

10.5 Attachment 5 - Guidance on Renewing This Permit

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

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

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

FINAL DRAFT/PROPOSED CAAPP PERMIT
PPG Industries, Inc., Works #14
I.D. No.: 115810AAA
Application No.: 95090102
September 3, 2002

official's signing of the form 200-CAAPP, APPLICATION FOR CAAPP PERMIT and the form 296-CAAPP, COMPLIANCE CERTIFICATION. The boxes should be marked yes on form 200-CAAPP, APPLICATION FOR CAAPP PERMIT, as existing information is being incorporated by reference.

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

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

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

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

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

Mail renewal applications to:

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

Project Summary

I. INTRODUCTION

This source has applied for a Clean Air Act Permit Program (CAAPP) operating permit for its existing operation. The CAAPP is the program established in Illinois for the operating permits for significant stationary sources required by the federal Clean Air Act, as amended in 1990. The conditions in a CAAPP permit are enforceable by both the Illinois Environmental Protection Agency (Illinois EPA) and the USEPA.

PPG Industries, Inc. Illinois glass manufacturing plant is located in Macon County, Mt. Zion township, about 4 miles Southeast of Decatur. The Mt. Zion facility manufactures flat glass by a continuous float process.

II. EMISSION UNITS

Significant emission units at this source are as follows:

Emission Unit	Description	Date Constructed	Emission Control Equipment
01	Raw Material (Receiving, Storage, and Mixing)	January 1980	Baghouses
02	Cullet System (Handling, Storage, and Feeding)	January 1980	Baghouses
03	Glass Melting Furnace #1 and Refiner (Melting and Conditioning)	January 1980	Electrostatic Precipitator and Lime Injection
04	Glass Melting Furnace #2 and Refiner (Melting and Conditioning)	November 1994	Electrostatic Precipitator and Lime Injection
05	Surface Treatment, Interleaving, and Coating Operations	January 1987 July 1988 July 1989 November 1987	Vents, Ammonia Injection, Oxidizer, Condenser, Scrubbers, and Baghouses
06	Finishing Operations (Cutting, Packing, Shipping)	January 1980	Fabric Filter Vents
07	Boilers	January 1980	N/A
08	Emergency Diesel Engines	January 1980	N/A
09	Gasoline Storage Tank	January 1980	N/A
	Fugitive Emissions (Paved and Unpaved Road Dust)	N/A	N/A

III. EMISSIONS

This source is required to have a CAAPP permit since it is a major source of emissions.

For purposes of fees, the source is allowed the following emissions:

Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	141.0
Sulfur Dioxide (SO ²)	392.3
Particulate Matter (PM)	363.7
Nitrogen Oxides (NO _x)	3,544.3
HAP, not included in VOM or PM	-----
Total	4,441.3

IV. APPLICABLE EMISSION STANDARDS

All emission sources in Illinois must comply with the Illinois Pollution Control Board's emission standards. The Board's emission standards represent the basic requirements for sources in Illinois.

All emission sources in Illinois must comply with the federal New Source Performance Standards (NSPS). The Illinois EPA is administering NSPS in Illinois on behalf of the United States EPA under a delegation agreement.

All emission sources in Illinois must comply with the federal National Emission Standards for Hazardous Air Pollutants (NESHAP). The Illinois EPA is administering NESHAP in Illinois on behalf of the United States EPA under a delegation agreement.

V. PROPOSED PERMIT

CAAPP

A CAAPP permit contains all conditions that apply to a source and a listing of the applicable state and federal air pollution control regulations that are the origin of the conditions. The permit also contains emission limits and appropriate compliance procedures. The appropriate compliance procedures may include inspections, work practices, monitoring, record keeping, and reporting to show compliance with these requirements. The Permittee must carry out these procedures on an on-going basis.

Title I

A combined Title I/CAAPP permit contains terms and conditions established by the Illinois EPA pursuant to authority found in Title I provisions, e.g., 40 CFR 52.21 - federal Prevention of Significant Deterioration (PSD) and 35 IAC Part 203 - Major Stationary Sources Construction and Modification. Notwithstanding the expiration date on the first page of the 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.

VI. REQUEST FOR COMMENTS

It is the Illinois EPA's preliminary determination that this source's permit application meets the standards for issuance of a CAAPP permit. The Illinois EPA is therefore proposing to issue a CAAPP permit, subject to the conditions proposed in the draft permit.

Comments are requested on this proposed action by the Illinois EPA and the proposed conditions on the draft permit. If substantial public

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interest is shown in this matter, the Illinois EPA will consider holding a public hearing in accordance with 35 Ill. Adm. Code Part 166.

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