

TABLE OF CONTENTS

	<u>PAGE</u>
1.0 SOURCE IDENTIFICATION	5
1.1 Source	
1.2 Owner/Parent Company	
1.3 Operator	
1.4 General Source Description	
2.0 LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT	6
3.0 INSIGNIFICANT ACTIVITIES	8
3.1 Identification of Insignificant Activities	
3.2 Compliance with Applicable Requirements	
3.3 Addition of Insignificant Activities	
4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE	10
5.0 OVERALL SOURCE CONDITIONS	11
5.1 Source Description	
5.2 Applicable Regulations	
5.3 Non-Applicability of Regulations of Concern	
5.4 Source-Wide Operational and Production Limits and Work Practices	
5.5 Source-Wide Emission Limitations	
5.6 General Recordkeeping Requirements	
5.7 General Reporting Requirements	
5.8 General Operational Flexibility/Anticipated Operating Scenarios	
5.9 General Compliance Procedures	
5.10 Special Permit Shield	
6.0 EMISSION REDUCTION MARKET SYSTEM (ERMS)	21
6.1 Description	
6.2 Applicability	
6.3 Obligation to Hold Allotment Trading Units (ATUs)	
6.4 Market Transaction	
6.5 Emission Excursion Compensation	
6.6 Quantification of Seasonal VOM Emissions	
6.7 Annual Account Reporting	
6.8 Allotment of ATUs to the Source	
6.9 Recordkeeping for ERMS	
6.10 Federal Enforceability	
6.11 Exclusions from Further Reductions	

	<u>PAGE</u>	
7.0	UNIT SPECIFIC CONDITIONS	29
7.1	Group 1 Storage Tanks Fixed Roof Storage Tanks With a Capacity of Less Than or Equal to 40,000 Gallons Storing Material With a True Vapor Pressure of Less Than 17.24 kPa (2.5 psia)	
7.2	Group 2 Storage Tanks Fixed Roof Storage Tanks With a Capacity of Less Than or Equal to 40,000 Gallons Storing Material With a True Vapor Pressure of Less Than 17.24 kPa (2.5 psia) - Subject to 40 CFR 60 Subpart Kb	
7.3	Group 3 Storage Tanks Fixed Roof Storage Tanks With a Capacity Greater Than 40,000 Gallons That Store Various Volatile Organic Liquids.	
7.4	Group 4 Storage Tanks Internal Floating Roof Storage Tanks	
7.5	Group 5 Loading Racks	
7.6	Group 6 Equipment Component Fugitive Emissions	
7.7	Group 7 Natural Gas-Fired Boiler, With a Heat Input Capacity Less Than 100 mmBtu/hr, and Greater Than 10 mmBtu/Hr	
8.0	GENERAL PERMIT CONDITIONS	63
8.1	Permit Shield	
8.2	Applicability of Title IV Requirements	
8.3	Emissions Trading Programs	
8.4	Operational Flexibility/Anticipated Operating Scenarios	
8.5	Testing Procedures	
8.6	Reporting Requirements	
8.7	Obligation to Comply with Title I Requirements	
9.0	STANDARD PERMIT CONDITIONS	68
9.1	Effect of Permit	
9.2	General Obligations of Permittee	
9.3	Obligation to Allow Illinois EPA Surveillance	
9.4	Obligation to Comply with Other Requirements	
9.5	Liability	
9.6	Recordkeeping	
9.7	Annual Emissions Report	
9.8	Requirements for Compliance Certification	
9.9	Certification	
9.10	Defense to Enforcement Actions	
9.11	Permanent Shutdown	
9.12	Reopening And Reissuing Permit For Cause	
9.13	Severability Clause	
9.14	Permit Expiration and Renewal	
10.0	ATTACHMENTS	
10.1	Attachment 1 - Summary of Storage Tank Features and Groupings	1-1
10.2	Attachment 2 - Example Certification by a Responsible Official	2-1

1.0 SOURCE IDENTIFICATION

1.1 Source

Exxon Midwest Terminal
24420 West Durkee Road
Channahon, Illinois 60410
815/423-2500

Illinois EPA I.D. No.: 197800AAR
Standard Industrial Classification Code: 5171, Petroleum Bulk Stations 5169,
Chemical and Allied Products
(Secondary)

1.2 Owner/Parent Company

Exxon Corporation
24420 West Durkee Road
Channahon, Illinois 60410

1.3 Operator

Exxon Midwest Terminal
24420 West Durkee Road
Channahon, Illinois 60410

Plant Manager
815/423-2500

1.4 General Source Description

The Exxon Midwest Terminal is a storage terminal for volatile organic liquid. The products are typically delivered to the terminal by barge or railcar and pumped into bulk storage tanks. These liquids are then loaded directly into delivery vessels from a specific storage tank or the liquids are blended pursuant to customer specifications and then loaded delivery vessels. Emission units at the site consist of several volatile organic liquid storage tanks, loading racks for the loading/unloading of delivery vessels, fugitive emissions from piping, and natural gas fired boiler.

2.0 LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT

acfm	Actual cubic feet per minute
Act	Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
ATUs	Allotment Trading Units
BAT	Best Available Technology
Btu	British thermal unit
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CFR	Code of Federal Regulations
ERMS	Emission Reduction Market System
°F	degrees Fahrenheit
ft ³	cubic foot
gal	Gallon
HAP	Hazardous Air Pollutant
hr	hour
IAC	Illinois Administrative Code
I.D. No.	Identification Number of Source, assigned by Illinois EPA
Illinois EPA	Illinois Environmental Protection Agency
IFR	Internal Floating Roof
°K	degrees Kelvin
kPa	kiloPascals
kW	kilowatts
LAER	Lowest Achievable Emission Rate
lb	pound
m	meter
m ³	Cubic meters
MACT	Maximum Achievable Control Technology
MSDS	Material Safety Data Sheet
mg	Milligram
mm	Millimeter
mmBtu	Million British thermal units
mo	Month
N/A	Not Applicable
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standards
NSR	New Source Review
OM	Organic Material
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
psia	Pounds per square inch absolute
RMP	Risk Management Plan

SIC	Standard Industrial Classification
SO ₂	Sulfur Dioxide
SWPPP	Storm Water Pollution Prevention Plan
T1	Title I - identifies Title I conditions that have been carried over from an existing construction 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 construction permit and subsequently revised in this permit
TANKS	USEPA Emission Estimating Program for Storage Tanks
TOC	Total Organic Compounds
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds
VOL	Volatile Organic Liquid
VOM	Volatile Organic Material
VPL	Volatile Petroleum Liquid
wt.	Weight
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:

Wastewater treatment system

560 gallon horizontal fixed roof storage tank T-208 for the storage of gasoline additive

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

None

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

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

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

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

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

3.2 Compliance with Applicable Requirements

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

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

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

- 3.2.3 For each organic material emission unit that uses organic material, e.g., a mixer or printing line, the Permittee shall comply with the applicable VOM emission limit of 35 IAC 215.301, 218.301, or 219.301, which requires that

organic material emissions not exceed 8.0 pounds per hour or do not qualify as photochemically reactive material as defined in 35 IAC 211.4690.

3.3 Addition of Insignificant Activities

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

4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE

Emission Unit	Description	Emission Control Equipment
Group 1 Storage Tanks (See Attachment 1 for Details)	Fixed Roof Storage Tanks With Capacity Less Than 40,000 Gallons	Permanent Submerged Fill
Group 2 Storage Tanks (See Attachment 1 for Details)	Fixed Roof Storage Tanks With Capacity Less Than 40,000 Gallons Subject to 40 CFR 60 Subpart Kb	Permanent Submerged Fill
Group 3 Storage Tanks (See Attachment 1 for Details)	Fixed Roof Storage Tanks With Capacity Greater Than 40,000 Gallons	Permanent Submerged Fill
Group 4 Storage Tanks (See Attachment 1 for Details)	Internal Floating Roof Storage Tanks	Floating Roof With Primary and Secondary Seals Permanent Submerged Fill
Group 5 Transfer/ Loading Operations	Loading Racks for the Loading/Unloading of Delivery Vessels	Submerged Loading Pipe Fill ¹
Group 6 Fugitive Emissions	Piping, Valves, and Pumps Used to Transfer Materials Between the Storage Tanks and at the Loading/Unloading Station	None
Group 7 Boiler	Fuel Combustion Unit Fired On Natural Gas (With Distillate Oil Backup)	None

¹ Excludes Loading Racks 1A, Spouts 1 and 1B, Spouts 1 and 5

5.0 OVERALL SOURCE CONDITIONS

5.1 Source Description

- 5.1.1 This permit is issued based on the source requiring a CAAPP permit as a major source of VOM emissions.
- 5.1.2 This permit is issued based on the source 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.
 - c. No person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission unit to exceed 2,000 ppm, pursuant to 35 IAC 214.301.
- 5.2.3 The Permittee shall comply with the standards for recycling and emissions reduction of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:
 - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
- 5.2.4 Should this stationary source, as defined in 40 CFR Section 68.3, become subject to the Accidental Release Prevention regulations in Part 68, then the owner or operator shall submit a Risk Management Plan (RMP) by the date specified in Section 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 CFR Part 70 or 71.
- 5.2.5 Should this stationary source, as defined in 40 CFR Part 63, become subject to 40 CFR Part 63, then the owner or operator shall comply with the applicable requirements of 40 CFR Part 63 by the date(s) specified in the NESHAP and shall certify compliance with the applicable requirements of 40 CFR Part 63 as part of the annual compliance certification as required by 40 CFR Part 70 or 71.

5.3 Non-Applicability of Regulations of Concern

- a. This permit is issued based on the source not being subject to 35 IAC Part 218, Subpart Y, because the source does not load gasoline from storage tanks into delivery vessels (tank trucks.) (see also Condition 5.4)
- b. This permit is issued based on the source not being subject to 40 CFR 60, Subpart XX because the source is not a bulk gasoline terminal. (See also Condition 5.4)
- c. This permit is issued based on the source not being subject to 40 CFR 61, Subpart J because the pumps, compressors, pressure relief devices, sampling connections, systems, open-ended valves or lines, valves, flanges and other connectors, product accumulator vessels and storage tanks at the source are not in benzene service as defined in 40 CFR 61.111. (See also Condition 5.4)
- d. This permit is issued based on the source not being subject to 40 CFR 61, Subpart V because pumps, compressors, pressure relief devices, sampling connections, systems, open-ended valves or lines, valves, flanges and other connectors, product accumulator vessels at the source are not in volatile hazardous air pollutant service as defined in 40 CFR 61.241. (See also Condition 5.4)
- e. This permit is issued based on the source not being subject to 40 CFR 63, Subpart R, Y, and OO because the aggregate actual HAP emissions from the source is less than 10 tons of each individual HAP and 25 tons for all HAPs. (See also Condition 5.5.)
- f. This permit is issued based on the source not being subject to 40 CFR 68, because the chemical components stored at the source are below the applicability threshold quantity specified for regulated substances pursuant to section 112(r)(5) of the Clean Air Act as amended, listed in 40 CFR 68.130 and determined to be present at a stationary source as specified in 40 CFR 68.115. [40 CFR 68.10]

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:

- a. The pumps, compressors, pressure relief devices, sampling connections, systems, open-ended valves or lines, valves, flanges and other connectors, product accumulator vessels and storage tanks at the source shall not be used to process, store, unload or load any of the following:
 - i. Gasoline or any other petroleum distillate or petroleum distillate/alcohol blend that is used as a fuel for internal combustion engines.
 - ii. A VOL containing vinyl chloride or benzene in excess of 2 percent by weight.These limits are being established, pursuant to a request by the Permittee, in order to demonstrate the non-applicability of the rules referenced in Condition 5.3.
- b. The Permittee shall inspect pumps and compressors for leaks, on at least a monthly basis, in conjunction with the sources current Storm Water Pollution Prevention Plan (SWPPP). If a significant leak is detected by any means, including visual observation, smell or sound, the pump or compressor shall be expeditiously repaired or taken out of service as indicated in the SWPPP.

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)	99.99
Sulfur Dioxide (SO ₂)	0.09
Particulate Matter (PM)	1.39
Nitrogen Oxides (NO _x)	12.89
HAP, not included in VOM or PM	-
TOTAL	114.36

5.5.2 Emissions of Hazardous Air Pollutants

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

5.5.3 Other Source-Wide Emission Limitations

The annual emissions from the source shall not exceed the following limitations:

Pollutant	Emissions (Tons/Year)	Underlying Rules
VOM	99.9	35 IAC Part 203

These limits are based on the emissions from the non-fuel combustion emission units (i.e., storage tanks, loading rack, and equipment component fugitive emissions). Compliance shall be determined based upon the unit-specific compliance procedures in Condition 7.1, 7.2, 7.3, 7.4, 7.5, and 7.6. 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). [TIN]

The above limitations contain new limitations that were not shown on the previously issued construction permit C8007037. The source has requested that the Illinois EPA establish conditions in this permit that allow various refinements from the conditions of this construction permit, consistent with the information provided in the CAAPP application. The source has requested these revisions and has addressed the applicability and compliance of Title I of the CAA, specifically 35 IAC Part 203, Major Stationary Sources Construction and Modification and/or 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits continue to ensure that the construction and/or modification addressed in this construction permit does not constitute a new major source or major modification pursuant to these rules. These limits are the primary enforcement mechanism for the equipment and activities permitted in this construction permit and the information in the CAAPP application contains the most current and accurate information for the source. Specifically, the above limitations establish a source wide limitation on VOM emissions which was not previously shown in the construction permit. [TIN].

5.6 General Recordkeeping Requirements

5.6.1 General Records for Storage Tanks

- a. Pursuant to Condition 5.8, the Permittee shall maintain a log identifying which unit-specific condition (Conditions 7.1, 7.2, 7.3 or 7.4 of this permit) each tank is complying with, if different than shown in Attachment 1, with date and supporting explanation for change in applicable requirements, pursuant to Section 39.5(7)(1)(i)(A) of the Act.

- b. The Permittee shall maintain records of the following items for each storage tank at the source with a capacity of 40 m³ (approximately 10,500 gallons) or greater [Section 39.5(7)(b) of the Act]. These records shall be kept up to date for each tank at the source and be retained until the tank is removed from the source.
 - i. The date* on which construction of the tank was commenced, with a copy of supporting documentation;
 - ii. The date(s)* on which modification or reconstruction, as defined in the NSPS, 40 CFR 60.14 and 60.15 respectively, were commenced on the tank, if applicable;
 - iii. A list of the types of VOL actually stored in the tank and anticipated to be stored in the tank, with date of each change in the list; and
 - iv. The dimensions of each tank and an analysis of tank capacity [35 IAC 218.129(f) and 40 CFR 60.116(b)].
- * If a date is prior to June 11, 1973, a specific date is not needed and documentation need only show commencement of construction prior to this date.

5.6.2 Records for Floating Roof Storage Tanks

The Permittee shall maintain records of the following items for each storage tank equipped with a floating roof to allow calculation of VOM and HAP emissions from the storage tanks at the source so as to demonstrate compliance with the annual emission limits in Condition 5.5. These records shall be updated whenever there is a change in status of a storage tank that is brought about by actions at the source, such as painting, and during periodic inspections.

- a. The color of each storage tank;
- b. The condition of each storage tank; and
- c. The type and number of fittings.

5.6.3 Records for VOM and HAP Emissions

The Permittee shall maintain records of the following items to allow verification that the source is not a major source for HAP emissions and therefore not subject to 40 CFR 63 Subpart R and to quantify annual VOM emissions, so as to demonstrate compliance with the limits in Condition 5.5:

- a. The Permittee shall maintain the following general records:
 - i. The identification and properties of each organic liquid stored at the source, as related to emissions, i.e., vapor pressure and molecular weight;
 - ii. The vapor and/or liquid weight percent of each HAP in the organic material emissions for each liquid determined as the average over the annual range of storage temperature and representative data on the composition of the liquid, with identification of supporting documentation or calculations, e.g., USEPA 1992 survey, TANKS, MSDS...etc.;
 - iii. A copy of the supporting documentation for HAP vapor weight percent (i.e., calculations based upon MSDS for the specific VOL); and
 - iv. A current analysis of the tank or tanks in each group that would have the greatest emissions from storage of various liquids in the event that the Permittee does not choose to keep throughput records by individual tank, to identify the tank that should be assumed for emission calculations.

- b. The Permittee shall maintain records of the following items on a monthly basis for the previous month:
 - i. The throughput of each organic liquid through each tank or group of tanks;
 - ii. The organic material (OM) emissions attributable to each organic liquid stored at the source, tons/month, with supporting calculations, calculated utilizing an approved USEPA methodology, such as the TANKS program;
 - iii. For each HAP identified as present, the total emissions of the individual HAP for all emission units at the source, tons/month, with supporting calculations; and
 - iv. Total emissions of each individual HAP, and combined HAPs from the source, tons/month, with supporting calculations.

5.6.4 Records for Operating Scenarios

The Permittee shall document and maintain a log identifying all changes in VOL stored in each tank, the date such tank switched to the storage of the new VOL, and the quantity of VOL stored. This includes the blending of VOLs from either storage tanks or delivery vessels.

5.6.5 Records for Pump and Compressor Inspections

The Permittee shall keep the following records to document implementation of the leak detection and repair program required by Condition 5.4.

- a. The performance of an inspection or other observation identifying a leaking component, including, date, the individual that performed the inspection, and the type of inspection;
- b. The condition, i.e., idle or operation, of each pump or compressor inspected;
- c. The presence of a leak, with description and the means of identification;
- d. The date the leak was repaired, or the component taken out of service; and
- e. If a corrective action, as in Condition 5.4, was not taken within 15 days, an explanation why corrective action could not be taken in 15 days.

The above may be included as part of the records retained pursuant to the SWPPP.

5.6.6 Retention and Availability of Records

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

5.7 General Reporting Requirements

5.7.1 General Source-Wide Reporting Requirements

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

- a. Continued operation of a storage tank subject to Conditions 7.1, 7.2, 7.3 or 7.4 during malfunction or breakdown of the control features of the tank.
- b. Annual emissions from the source in excess of the emission limits specified in Condition 5.5.1 and 5.5.2 based on the current month's records plus the preceding 11 months within 30 days of such an occurrence.

5.7.2 Annual Emissions Report

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

5.8 General Operational Flexibility/Anticipated Operating Scenarios

N/A

5.9 General Compliance Procedures

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, the Compliance Procedures in Section 7 (Unit Specific Conditions) of this permit, and the procedures listed below.

- a. For the purpose of estimating VOM emissions from the storage tanks, version 3.1 of the TANKS program is acceptable.
- b. For the purpose of estimating fugitive VOM emissions from components at the facility, the emission factors found in "Marketing Terminal Emission Factors" published by USEPA on the Technology Transfer Network bulletin board in February, 1995, other emission factors published by the USEPA, or developed at the source.
- c. For the purpose of estimating HAP emissions from equipment at the facility, the vapor and/or liquid weight percent (based on a 1992 USEPA survey) of each HAP for each product times the VOM emissions contributed by that product is acceptable.
- d. Total VOM and HAP emissions at the source shall be determined as the sum of the respective VOM and HAP emissions from the tanks (Conditions 7.1 through 7.4), the loading rack (Condition 7.5), and fugitives (Condition 7.6) and natural gas fired boiler (Condition 7.7).

5.10 Special Permit Shield

The Permittee is hereby shielded from any obligation to measure the volume of leaking liquid from a pump or compressor for purposes of determining compliance with 35 IAC 218.142 as Condition 5.4 establishes appropriate compliance procedures for this rule that do not rely on such measurements.

6.0 EMISSIONS REDUCTION MARKET SYSTEM (ERMS)

6.1 Description of ERMS

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

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

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

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

6.2 Applicability

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

6.3 Obligation to Hold Allotment Trading Units (ATUs)

- a. Pursuant to 35 IAC 205.150(c)(1) and 35 IAC 205.720, and as further addressed by Condition 6.8, as of December 31 of each year, this source shall hold ATUs in its account in an amount not less than the ATU equivalent of its VOM emissions during the preceding seasonal allotment period (May 1 - September 30), not including VOM emissions from the following, or the source shall be subject to "emissions excursion compensation," as described in Condition 6.5.
 - i. VOM emissions from insignificant emission units and activities as identified in Section 3 of this permit, in accordance with 35 IAC 205.220;
 - ii. Excess VOM emissions associated with startup, malfunction, or breakdown of an emission unit as authorized in Section 7.0 of this permit, in accordance with 35 IAC 205.225;
 - iii. Excess VOM emissions to the extent allowed by a Variance, Consent Order, or Compliance Schedule, in accordance with 35 IAC 205.320(e)(3);
 - iv. Excess VOM emissions that are a consequence of an emergency as approved by the Illinois EPA, pursuant to 35 IAC 205.750; and
 - v. VOM emissions from certain new and modified emission units as addressed by Condition 6.8(b), if applicable, in accordance with 35 IAC 205.320(f).

- b. Notwithstanding the above condition, in accordance with 35 IAC 205.150(c)(2), if a source commences operation of a major modification, pursuant to 35 IAC Part 203, the source shall hold ATUs in an amount not less than 1.3 times its seasonal VOM emissions attributable to such major modification during the seasonal allotment period, determined in accordance with the construction permit for such major modification or applicable provisions in Section 7.0 of this permit.

6.4 Market Transactions

- a. The source shall apply to the Illinois EPA for and obtain authorization for a Transaction Account prior to conducting any market transactions, as specified at 35 IAC 205.610(a).
- b. The Permittee shall promptly submit to the Illinois EPA any revisions to the information submitted for its Transaction Account, pursuant to 35 IAC 205.610(b).
- c. The source shall have at least one account officer designated for its Transaction Account, pursuant to 35 IAC 205.620(a).
- d. Any transfer of ATUs to or from the source from another source or general participant must be authorized by a qualified Account Officer designated by the source and approved by the Illinois EPA, in accordance with 35 IAC 205.620, and the transfer must be submitted to the Illinois EPA for entry into the Transaction Account database.

6.5 Emissions Excursion Compensation

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

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

6.6 Quantification of Seasonal VOM Emissions

- a. The methods and procedures specified in Sections 5 and 7 of this permit for determining VOM emissions and compliance with VOM emission limitations shall be used for determining seasonal VOM emissions for purposes of the ERMS, with the following exceptions [35 IAC 205.315(b)]:

No exceptions

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

6.7 Annual Account Reporting

- a. For each year in which the source is operational, the Permittee shall submit, as a component of its Annual Emissions Report, seasonal VOM emissions information to the Illinois EPA for the seasonal allotment period. This report shall include the following information [35 IAC 205.300]:
- i. Actual seasonal emissions of VOM from the source;
- ii. A description of the methods and practices used to determine VOM emissions, as required by this permit, including any supporting documentation and calculations;
- iii. A detailed description of any monitoring methods that differ from the methods specified in this permit, as provided in 35 IAC 205.337;
- iv. If a source has experienced an emergency, as provided in 35 IAC 205.750, the report shall reference the associated emergency conditions report that has been approved by the Illinois EPA;
- v. If a source's baseline emissions have been adjusted due to a Variance, Consent Order, or CAAPP permit Compliance Schedule, as provided for in 35 IAC 205.320(e)(3), the report shall provide documentation quantifying the excess VOM emissions during the season that were allowed by the Variance, Consent Order, or Compliance Schedule, in accordance with 35 IAC 205.320(e)(3); and
- vi. If a source is operating a new or modified emission unit for which three years of operational data is not yet available, as specified in 35 IAC 205.320(f), the report shall specify seasonal VOM emissions attributable to the new emission unit or the modification of the emission unit.
- b. This report shall be submitted by November 30 of each year, for the preceding seasonal allotment period.

6.8 Allotment of ATUs to the Source

- a. i. The allotment of ATUs to this source is 136 ATUs per seasonal allotment period.
- ii. This allotment of ATUs reflects the Illinois EPA's determination that the source's baseline emissions were 15.4316 tons per season.
- iii. The source's allotment reflects 88% of the baseline emissions (12% reduction), except for the VOM emissions from specific emission units

excluded from such reduction, pursuant to 35 IAC 205.405, including units complying with MACT or using BAT, as identified in Condition 6.11 of this permit.

- iv. ATUs will be issued to the source's Transaction Account by the Illinois EPA annually. These ATUs will be valid for the seasonal allotment period following issuance and, if not retired in this season, the next seasonal allotment period.
- v. Condition 6.3(a) becomes effective beginning in the seasonal allotment period following the initial issuance of ATUs by the Illinois EPA into the Transaction Account for the source.

b. Contingent Allotments for New or Modified Emission Units

The source was issued a construction permit prior to January 1, 1998 for the following new or modified emission units for which three years of operational data is not yet available:

Emission Unit	Construction Permit No.	Date Issued	Maximum Available Allotment	Explanation of Maximum Allotment
Storage Tanks T-204 T-205B T-205C	94090081	1995	0 ATU	Three Years of Data Not Yet Determined

In accordance with 35 IAC 205.310(h) and 35 IAC 205.320(f), the source shall submit a written request for, or an application for, a revised emissions baseline and allotment which address these emission units by December 1 of the year of the third complete seasonal allotment period in which each such newly constructed or modified emission unit is operational. Such submittal shall include information from the affected emission units on the seasonal emissions for these first three seasonal allotment periods.

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

- i. Transfer of ATUs by the source to another participant or the AQMA, in accordance with 35 IAC 205.630;
- ii. Deduction of ATUs as a consequence of emissions excursion compensation, in accordance with 35 IAC 205.720; and
- iii. Transfer of ATUs to the AQMA, as a consequence of shutdown of the source, in accordance with 35 IAC 205.410.

6.9 Recordkeeping for ERMS

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

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

6.10 Federal Enforceability

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

6.11 Exclusions from Further Reductions

- a. VOM emissions from the following emission units shall be excluded from the VOM emissions reductions requirements specified in 35 IAC 205.400(c) and (e) as long as such emission units continue to satisfy the following [35 IAC 205.405(a)]:
 - i. Emission units that comply with any NESHAP or MACT standard promulgated pursuant to the CAA;
 - ii. Direct combustion emission units designed and used for comfort heating purposes, fuel combustion emission units, and internal combustion engines; and

- iii. An emission unit for which a LAER demonstration has been approved by the Illinois EPA on or after November 15, 1990.

The source has demonstrated in its ERMS application and the Illinois EPA has determined that the following emission units qualify for exclusion from further reductions because they meet the criteria as indicated above [35 IAC 205.405(a) and (c)]:

Natural Gas Boiler, CB200-5000

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

The source has demonstrated in its ERMS application and the Illinois EPA has determined that the following emission units qualify for exclusion from further reductions because these emission units use BAT for controlling VOM emissions as indicated above [35 IAC 205.405(b) and (c)]:

None

7.0 UNIT SPECIFIC CONDITIONS

7.1 Group 1 Storage Tanks
Fixed roof storage tanks with a capacity of less than or equal to 40,000 gallons storing material with a true vapor pressure of less than 17.24 kPa (2.5 psia)

7.1.1 Descriptions

The Permittee operates fixed roof storage tanks to store various organic liquids. Permanent submerged loading is used at these tanks, minimizing turbulence and evaporation of VOM during loading.

7.1.2 List of Emission Equipment and Pollution Control Equipment

Storage Tank	Description	Emission Control Equipment
TK54	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK55	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK56	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK58	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK59	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK60	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK61	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK62	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK63	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK64	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK65	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK66	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK67	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK68	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK75	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK76	Fixed Roof Tank	Permanent Submerged Loading Pipe
		Emission Control Equipment
Storage Tank	Description	Emission Control Equipment
TK77	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK78	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK79	Fixed Roof Tank	Permanent Submerged Loading Pipe
T 201	Fixed Roof Tank	Permanent Submerged Loading Pipe
T-202	Fixed Roof Tank	Permanent Submerged Loading Pipe
T-203	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK 205A	Fixed Roof Tank	Permanent Submerged Loading Pipe
T-204	Fixed Roof Tank	Permanent Submerged Loading Pipe

7.1.3 Applicability Provisions

An "affected tank," for the purpose of these unit-specific conditions, is a fixed roof storage tank with a capacity of less than or equal to 40,000 gallons storing material which stores organic material with a true vapor pressure of less than 17.24 kPa (2.5 psia).

An affected tank is subject to the recordkeeping requirements of 35 IAC 218.129(f). [35 IAC 218.119(g)]

As of the "date issued" as shown on page 1 of this permit, the affected tanks are identified in Condition 7.1.2. The status of all storage tanks at this source, including affected tanks, is summarized in Attachment 1.

7.1.4 Non-Applicable Regulations

- a. An affected tank is not subject to the requirements of 40 CFR 60 Subparts K and Ka because the capacity of the tank is less than 40,000 gallons (approximately 10567 gallons). [40 CFR 60.110(a) and 40 CFR 60.110a(a)]
- b. An affected tank is not subject to the requirements of 40 CFR 60 Subpart Kb because the capacity of the tank is less than 40 m³ or the

tank was constructed prior to July 23, 1984 (approximately 10567 gallon). [40 CFR 60.110b(a)]

- c. An affected tank is not subject to the limitations of 35 IAC 218.120, Control Requirements for Storage Containers of VOL because the capacity of the tank is less than 151 m³ (40,000 gal). [35 IAC 218.119]
- d. An affected tank is not subject to the requirements of 35 IAC 218.121, Storage Containers of VPL, because the capacity of the tank is less than 40,000 gallons. [35 IAC 218.121]
- e. An affected tank is not subject to the requirements of 35 IAC 218.122, Loading Operations, if no odor nuisance exists. The limitations of 35 IAC 218.122 shall only apply to the loading of VOL with a vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3°K (70°F). [35 IAC 218.122(c)]
- f. An affected tank is not subject to the requirements of 35 IAC 218.123, Petroleum Liquid Storage Tanks, because a stationary storage tank with a capacity less than 151.42 m³ (40,000 gal) is not subject to the control requirements of 35 IAC 218.123(b). [35 IAC 218.123(a)(2)]
- g. An affected tank is not subject to the requirements of 35 IAC Part 218, Subpart QQ or TT, because the affected tank is subject to 35 IAC 218, Subpart B. [35 IAC 218.940(a) and (b) and 218.980(a) and (b)]

7.1.5 Control Requirements

N/A

7.1.6 Emission Limitations

- a. In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, storage tank T-204, are subject to the following:

Emissions from storage tank T-204 shall not exceed the following limits:

VOM	
(Ton/Month)	(Ton/Year)
0.42	4.20

These limits are based on the operational limits referenced in Condition 7.1.7 and the compliance procedures referenced in Condition 7.1.12.

Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total). [T1N]

The above limitations contain new limitations that were not shown on the previously issued construction permit 94090081. The source has requested that the Illinois EPA establish conditions in this permit that allow various refinements from the conditions of this construction permit, consistent with the information provided in the CAAPP application. The source has requested these revisions and has addressed the applicability and compliance of Title I of the CAA, specifically 35 IAC Part 203, Major Stationary Sources Construction and Modification and/or 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits continue to ensure that the construction and/or modification addressed in this construction permit does not constitute a new major source or major modification pursuant to these rules. These limits are the primary enforcement mechanism for the equipment and activities permitted in this construction permit and the information in the CAAPP application contains the most current and accurate information for the source. Specifically, the above

limitations establish a limitation on VOM emissions for the storage tank T-204 that was not previously shown in the construction permit. [T1N].

- b. There are also source wide limitations in Condition 5.5 that include this unit.

7.1.7 Operating Requirements

- a. Pursuant to Section 39.5(7)(a) of the Act and the exemption from the requirements of 35 IAC 218.122 the Permittee shall not store any organic liquids with a maximum true vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3 °K (70 °F).
- b. Operation of the storage tank T-204 shall not exceed the following limits:

Organic Liquids Throughput	
(gal/month)	(gal/year)
25,000	300,000

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). [T1R]

The above limitations contain revisions to previously issued Construction Permit 94090081. The source has requested that the Illinois EPA establish conditions in this permit that allow various refinements from the conditions of this construction permit, consistent with the information provided in the CAAPP application. The source has requested these revisions and has addressed the applicability and compliance of Title I of the CAA, specifically 35 IAC Part 203, Major Stationary Sources Construction and Modification and/or 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits continue to ensure that the construction and/or modification addressed in this construction permit does not constitute a new major source or major modification pursuant to these rules. These limits are the primary enforcement mechanism for the equipment and activities permitted in this construction permit and the information in the CAAPP application contains the most current and accurate information for the source. Specifically, pursuant to Construction Permit 94090081, this limitation revises the total throughput limitation of 200,000 gal/year for storage tanks T-204, T-205B and T-205C (Specific throughput limits are shown in Condition 7.2 for storage tanks T-205B and T-205C). [T1R].

7.1.8 Inspection Requirements

None

7.1.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6 (requiring records of tank dimensions and an analysis of the capacity of the storage vessel; tank throughput and tank emissions), the Permittee shall maintain records of the following items for each affected storage tank to demonstrate compliance with Conditions 7.1.3 and 7.1.7 pursuant to Section 39.5(7)(b) of the Act:

The storage of any organic liquid with a true vapor pressure greater than 17.24 kPa (2.5 psia).

7.1.10 Reporting Requirements

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

Any storage of organic liquid with a true vapor pressure greater than 17.24 kPa (2.5 psia) at 294.3 °K (70 °F) in each affected storage tank 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.

7.1.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to an affected tank without prior notification to the Illinois EPA or revision of this permit. This condition does not affect the Permittee's obligation to properly obtain a construction permit in a timely manner for any activity constituting construction or modification of the source, as defined in 35 IAC 201.102:

Changes in the material stored in a tank, provided the tank continues to comply with the Conditions in Section 7.1 of this permit.

7.1.12 Compliance Procedures

- a. Emissions from each affected storage tank shall be determined through the use of the version 3.1 of the TANKS program.
- b. For the purpose of estimating HAP emissions from equipment at the facility, the vapor and/or liquid weight percent (based on a 1992 USEPA survey or calculations based MSDS for the specific VOL) of each HAP for each product times the VOM emissions contributed by that product is acceptable

7.2 Group 2 Storage Tanks
 Fixed roof storage tanks with a capacity of less than or equal to 40,000 gallons storing material with a true vapor pressure of less than 17.24 kPa (2.5 psia) – Subject to 40 CFR 60 Subpart Kb

7.2.1 Descriptions

The Permittee operates fixed roof storage tanks to store various organic liquids. Permanent submerged loading is used at these tanks, minimizing turbulence and evaporation of VOM during loading.

7.2.2 List of Emission Equipment and Pollution Control Equipment

Storage Tank	Description	Emission Control Equipment
T-205B	Fixed Roof Tank	Permanent Submerged Loading Pipe
T-205C	Fixed Roof Tank	Permanent Submerged Loading Pipe

7.2.3 Applicability Provisions

An "affected tank," for the purpose of these unit-specific conditions, is a fixed roof storage tank with a capacity of less than or equal to 40,000 gallons storing material which stores organic material with a true vapor pressure of less than 17.24 kPa (2.5 psia). In addition, an "affected tank," for the purposes of these unit specific conditions, is 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. An affected tank has a capacity greater than or equal to 40 m³ (approximately 10566) but less than 75 m³ (approximately 19813 gallons) and is used to store VOLs for which construction, reconstruction, or modification is commenced after July 23, 1984.

However, the affected tank is only subject to the recordkeeping requirements of 40 CFR 60.116b(a) and (b) of 40 CFR 60, Subpart Kb. Because storage vessels with a design capacity of less than 75 m³ are exempt from the General Provisions of the NSPS (Part 60, Subpart A) and from the provisions of 40 CFR 60 Subpart Kb [40 CFR 60.110(b)].

An affected tank is subject to the recordkeeping requirements of 35 IAC 218.129(f). [35 IAC 218.119(g)]

As of the "date issued" as shown on page 1 of this permit, the affected tanks are identified in Condition 7.2.2. The status of all storage tanks at this source, including affected tanks, is summarized in Attachment 1.

7.2.4 Non-Applicable Regulations

- a. An affected tank is not subject to the requirements of 40 CFR 60 Subpart Ka because the capacity of the tank is less than 40,000 gallons. [40 CFR 60.110a(a)]
- b. An affected tank is not subject to the limitations of 35 IAC 218.120, Control Requirements for Storage Containers of VOL because the capacity of the tank is less than 151 m³ (40,000 gal). [35 IAC 218.119]
- c. An affected tank is not subject to the requirements of 35 IAC 218.121, Storage Containers of VPL, because the capacity of the tank is less than 40,000 gallons. [35 IAC 218.121]
- d. An affected tank is not subject to the requirements of 35 IAC 218.122, Loading Operations, if no odor nuisance exists. The limitations of 35 IAC 218.122 shall only apply to the loading of VOL with a vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3°K (70°F). [35 IAC 218.122(c)]

- e. An affected tank is not subject to the requirements of 35 IAC 218.123, Petroleum Liquid Storage Tanks, because a stationary storage tank with a capacity less than 151.42 m³ (40,000 gal) is not subject to the control requirements of 35 IAC 218.123(b). [35 IAC 218.123(a)(2)]
- f. An affected tank is not subject to the requirements of 35 IAC Part 218, Subpart QQ or TT, because the affected tank is subject to 35 IAC 218, Subpart B. [35 IAC 218.940(a) and (b) and 218.980(a) and (b)]

7.2.5 Control Requirements

N/A

7.2.6 Emission Limitations

- a. In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected storage tanks are subject to the following:

Emissions from each affected storage tank shall not exceed the following limits:

(Ton/Month)	VOM	(Ton/Year)
0.36		3.6

These limits are based on the operational limits referenced in Condition 7.2.7 and the compliance procedures referenced in Condition 7.2.12.

Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total). [T1N]

The above limitations contain new limitations that were not shown on the previously issued construction permit 94090081. The source has requested that the Illinois EPA establish conditions in this permit that allow various refinements from the conditions of this construction permit, consistent with the information provided in the CAAPP application. The source has requested these revisions and has addressed the applicability and compliance of Title I of the CAA, specifically 35 IAC Part 203, Major Stationary Sources Construction and Modification and/or 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits continue to ensure that the construction and/or modification addressed in this construction permit does not constitute a new major source or major modification pursuant to these rules. These limits are the primary enforcement mechanism for the equipment and activities permitted in this construction permit and the information in the CAAPP application contains the most current and accurate information for the source. Specifically, the above limitations establish a limitation on VOM emissions for the storage tanks T-205B and T-205C that was not previously shown in the construction permit. [T1N].

- b. There are also source wide limitations in Condition 5.5 that include this unit.

7.2.7 Operating Requirements

- a. Pursuant to Section 39.5(7)(a) of the Act and the exemption from the requirements of 35 IAC 218.122 the Permittee shall not store any organic liquids with a maximum true vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3 °K (70 °F).
- b. Operation of each affected storage tank shall not exceed the following limits:

Organic Liquids Throughput	
(gal/month)	(gal/year)
25,000	300,000

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). [T1R]

The above limitations contain revisions to previously issued Construction Permit 94090081. The source has requested that the Illinois EPA establish conditions in this permit that allow various refinements from the conditions of this construction permit, consistent with the information provided in the CAAPP application. The source has requested these revisions and has addressed the applicability and compliance of Title I of the CAA, specifically 35 IAC Part 203, Major Stationary Sources Construction and Modification and/or 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits continue to ensure that the construction and/or modification addressed in this construction permit does not constitute a new major source or major modification pursuant to these rules. These limits are the primary enforcement mechanism for the equipment and activities permitted in this construction permit and the information in the CAAPP application contains the most current and accurate information for the source. Specifically, pursuant to Construction Permit 94090081, this limitation revises the total throughput limitation of 200,000 gal/year for storage tanks T-204, T-205B and T-205C (Specific throughput limits are shown in Condition 7.1 for storage tank T-204). [T1R].

7.2.8 Inspection Requirements

None

7.2.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6 (requiring records of tank dimensions and an analysis of the capacity of the storage vessel; tank throughput and tank emissions), the Permittee shall maintain records of the following items for each affected storage tank to demonstrate compliance with Condition 7.2.7 pursuant to Section 39.5(7)(b) of the Act:

The storage of any organic liquid with a true vapor pressure greater than 17.24 kPa (2.5 psia).

7.2.10 Reporting Requirements

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

Any storage of organic liquid with a true vapor pressure greater than 17.24 kPa (2.5 psia) at 294.3 °K (70°F) in each affected storage tank 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.

7.2.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to an affected tank without prior notification to the Illinois EPA or revision of this permit. This condition does not affect the Permittee's obligation to properly obtain a construction permit in a timely manner for any activity constituting construction or modification of the source, as defined in 35 IAC 201.102:

Changes in the material stored in a tank, provided the tank continues to comply with the Conditions in Section 7.2 of this permit.

7.2.12 Compliance Procedures

- a. Emissions from each affected storage tank shall be determined through the use of the version 3.1 of the TANKS program.
- b. For the purpose of estimating HAP emissions from equipment at the facility, the vapor and/or liquid weight percent (based on a 1992 USEPA survey or calculations based MSDS for the specific VOL) of each HAP for each product times the VOM emissions contributed by that product is acceptable

7.3 Group 3 Storage Tanks
 Fixed roof storage tanks with a capacity greater than 40,000 gallons that store various volatile organic liquids.

7.3.1 Descriptions

The Permittee operates fixed roof storage tanks to store various volatile organic liquids. Permanent submerged loading is used at these tanks, minimizing turbulence and evaporation of VOM during loading.

7.3.2 List of Emission Equipment and Pollution Control Equipment

Storage Tank	Description	Emission Control Equipment
TK1	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK2	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK5	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK6	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK7	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK8	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK9	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK10	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK11	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK12	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK13	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK14	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK15	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK16	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK17	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK18	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK19	Fixed Roof Tank	Permanent Submerged Loading Pipe

Storage Tank	Description	Emission Control Equipment
TK20	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK21	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK22	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK25	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK26	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK27	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK29	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK30	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK31	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK35	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK37	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK38	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK51	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK70	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK71	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK73	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK74	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK83	Fixed Roof Tank	Permanent Submerged Loading Pipe
TK84	Fixed Roof Tank	Permanent Submerged Loading Pipe

7.3.3 Applicability Provisions

An "affected tank," for the purpose of these unit-specific conditions, is a fixed roof storage tank with a capacity greater than 40,000 gallons that store various volatile organic liquids, which can include VPL, with a maximum true vapor pressure of less than 0.75 psia. In addition, an "affected tank," for the purposes of these unit specific conditions, is subject to the NSPS for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984, 40 CFR 60 Subpart Ka. However, the affected storage tank is exempt from the subsequent requirements of 40 CFR 60 Subpart Ka because the vapor pressure of the organic liquids stored in the tank is less than 0.75 psia. [40 CFR 60.112a].

As of the "date issued" as shown on page 1 of this permit, the affected tanks are identified in Condition 7.3.2. The status of all storage tanks at this source, including affected tanks, is summarized in Attachment 1.

7.3.4 Non-Applicable Regulations

- a. An affected tank is not subject to the requirements of 40 CFR 60 Subparts K because the tanks were built after May 19, 1978. [40 CFR 60.110(c)]

- b. An affected tank is not subject to the requirements of 40 CFR 60 Subparts Kb, because the tanks were built prior to July 23, 1984. [40 CFR 60.110b(a)]
- c. An affected tank is not subject to 35 IAC 218.120, Control Requirements for Storage Containers of VOL, because the tank is used to store VOL with a true vapor pressure of less than 0.75. [35 IAC 218.120(a)]
- d. An affected tank is not subject to 35 IAC 218.121, Storage Containers of VPL, because the tanks are used to store VPL with a true vapor pressure of less than 1.5 psia. [35 IAC 218.121]
- e. An affected tank is not subject to the requirements of 35 IAC 218.122, Loading Operations, if no odor nuisance exists. The limitations of 35 IAC 218.122 shall only apply to the loading of VOL with a vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3K (70°F). [35 IAC 218.122(c)]
- f. An affected tank is not subject to the requirements of 35 IAC 218.123, Petroleum Liquid Storage Tanks, because a stationary storage tank subject to a NSPS (e.g., 40 CFR 60, Subpart Ka) is exempt from the control requirements of 35 IAC 218.123(b). [35 IAC 218.123(a)(5)]
- g. An affected tank is not subject to the requirements of 35 IAC Part 218, Subpart QQ or TT, because the affected tank is subject to 35 IAC 218, Subpart B. [35 IAC 218.940(a) and (b) and 218.980(a) and (b)]

7.3.5 Control Requirements

N/A

7.3.6 Emission Limitations

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

N/A

7.3.7 Operating Requirements

Pursuant to Section 39.5(7)(a) of the Act and 35 IAC 218.119(a) the Permittee shall not store any organic material with a true vapor pressure of 0.75 psia or greater.

7.3.8 Inspection Requirements

None

7.3.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6 (requiring records of throughput and emissions), the Permittee shall maintain records of the following items for each affected tank to demonstrate compliance with Condition 7.3.7 pursuant to Section 39.5(7)(b) of the Act:

The storage of any organic liquid with a true vapor pressure greater than 0.75 psia.

7.3.10 Reporting Requirements

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

Any storage of organic liquid with a true vapor pressure greater than 0.75 psia in an affected tank 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.

7.3.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to an affected tank without prior notification to the Illinois EPA or revision of this permit. This condition does not affect the Permittee's obligation to properly obtain a construction permit in a timely manner for any activity constituting construction or modification of the source, as defined in 35 IAC 201.102:

Changes in the material stored in a tank, provided the tank continues to comply with the Conditions in Section 7.3 of this permit.

7.3.12 Compliance Procedures

- a. Emissions from each affected storage tank shall be determined through the use of the version 3.1 of the TANKS program.
- b. For the purpose of estimating HAP emissions from equipment at the facility, the vapor and/or liquid weight percent (based on a 1992 USEPA survey or calculations based MSDS for the specific VOL) of each HAP for each product times the VOM emissions contributed by that product is acceptable

7.4 Group 4 Storage Tanks
Internal floating roof storage tanks

7.4.1 Description

The Permittee operates internal floating roof storage tank(s) to store organic materials with a vapor pressure less than 11.1 psia. Permanent submerged loading must be used at these tanks, minimizing turbulence and evaporation of VOM during loading.

7.4.2 List of Emission Equipment and Pollution Control Equipment

Storage Tank	Description	Emission Control Equipment
TK28	Internal Floating Roof Tank	Permanent Submerged Loading Pipe And Internal Floating Roof
TK32	Internal Floating Roof Tank	Permanent Submerged Loading Pipe And Internal Floating Roof
TK33	Internal Floating Roof Tank	Permanent Submerged Loading Pipe And Internal Floating Roof
TK34	Internal Floating Roof Tank	Permanent Submerged Loading Pipe And Internal Floating Roof
TK36	Internal Floating Roof Tank	Permanent Submerged Loading Pipe And Internal Floating Roof
TK40	Internal Floating Roof Tank	Permanent Submerged Loading Pipe And Internal Floating Roof
TK41	Internal Floating Roof Tank	Permanent Submerged Loading Pipe And Internal Floating Roof
TK42	Internal Floating Roof Tank	Permanent Submerged Loading Pipe And Internal Floating Roof
TK43	Internal Floating Roof Tank	Permanent Submerged Loading Pipe And Internal Floating Roof
TK44	Internal Floating Roof Tank	Permanent Submerged Loading Pipe And Internal Floating Roof
TK45	Internal Floating Roof Tank	Permanent Submerged Loading Pipe And Internal Floating Roof
TK46	Internal Floating Roof Tank	Permanent Submerged Loading Pipe And Internal Floating Roof
TK47	Internal Floating Roof Tank	Permanent Submerged Loading Pipe And Internal Floating Roof
TK48	Internal Floating Roof Tank	Permanent Submerged Loading Pipe And Internal Floating Roof
TK49	Internal Floating Roof Tank	Permanent Submerged Loading Pipe And Internal Floating Roof
TK50	Internal Floating Roof Tank	Permanent Submerged Loading Pipe and Internal Floating Roof
TK52	Internal Floating Roof Tank	Permanent Submerged Loading Pipe and Internal Floating Roof

7.4.3 Applicability Provisions

- a. An "affected tank," for the purposes of these unit specific conditions is a storage tank that is subject to the control requirement of 40 CFR 60 Subpart Ka that relies on an internal floating roof for compliance. A storage tank constructed, reconstructed, or modified after May 18, 1978, and prior to July 23, 1984, is subject to the control requirements of 40 CFR 60 Subpart Ka if it has a capacity greater than or equal to 40,000 gallons (150 m³) which contains a petroleum liquid which, as stored, has a true vapor pressure equal to or greater than 10.3 kPa (1.5 psia) but not greater than 76.6 kPa (11.1 psia).

As of the "date issued" as shown on page 1 of this permit, the affected tanks are identified in Condition 7.4.2. The status of all storage tanks at this source, including affected tanks that are subject to 40 CFR 60 Subpart Ka, is summarized in Attachment 1.

- b. Each storage tank subject to 40 CFR 60 Subpart Ka is hereby shielded from compliance with 35 IAC 218.121. This shield is issued to streamline the applicable requirements for the source, based on the Illinois EPA's finding that compliance with 40 CFR 60, Subpart Ka assures compliance with 35 IAC 218.121, following the review requirements of 40 CFR 60 Subpart Ka and 35 IAC 218.121.

7.4.4 Non-Applicable Regulations

- a. An affected tank is not subject to the requirements of 35 IAC 218.123(b), Petroleum Liquid Storage Tanks, because a stationary storage tank subject to a NSPS (e.g., 40 CFR 60, Subpart Ka) is exempt from the control requirements of 35 IAC 218.123(b). [35 IAC 218.123(a)(5)]
- b. An affected tank is not subject to the requirements of 35 IAC Part 218, Subpart QQ or TT, because the affected tank is subject to 35 IAC 218, Subpart B. [35 IAC 218.940(a) and (b) and 218.980(a) and (b)]

7.4.5 Control Requirements

- a. Each affected tank shall comply with the requirements of 40 CFR 60.112a(a)(2), which requires the use of a fixed roof in combination with an internal floating roof equipped with a continuous closure device between the tank wall and the cover edge.
- b. Each affected tank shall also be equipped with a permanent submerged loading pipe, pursuant to 35 IAC 218.122(b).

7.4.6 Emission Limitations

N/A

7.4.7 Operating Requirements

- a. Each affected tank shall be operated in compliance with the operating requirements of 40 CFR 60.112a(a)(2) and 60.113b(a), as follows:
 - i. The internal floating roof shall float on the liquid surface at all times, except during those intervals when the storage tank is being completely emptied and subsequently refilled and the roof rests on its leg supports. When the roof is resting on its leg supports, the process of emptying or refilling shall be continuous and shall be accomplished as rapidly as possible. [40 CFR 60.112a(a)(2)]
 - ii. Each opening in a non-contact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents shall provide a projection below the liquid surface. [40 CFR 60.112a(a)(2)]
 - iii. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains shall be equipped with a cover or lid which is maintained in a closed position at all times (i.e., no visible gaps) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use. [40 CFR 60.112a(a)(2)]
 - iv. Automatic bleeder vents shall be equipped with a gasket and be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. [40 CFR 60.112a(a)(2)]
 - v. Rim space vents shall be equipped with a gasket and be set to open only when the internal floating roof is not floating or

at the manufacturer's recommended setting. [40 CFR 60.112a(a)(2)]

7.4.8 Inspection Requirements

The Permittee shall fulfill the following testing and procedures requirements for each affected tank equipped with an internal floating roof as follows:

N/A

7.4.9 Recordkeeping Requirements

The Permittee shall keep the operating records of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. [40 CFR 60.115a(a)]

7.4.10 Reporting Requirements

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

- a. Any storage of VOL in an affected tank that is not in compliance with the control requirements due to absence of the features required by Condition 7.4.5 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 control requirements (Condition 7.4.5) due to damage, deterioration, or other condition of the tank, 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.

7.4.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to an affected tank without prior notification to the Illinois EPA or revision of this permit. This condition does not affect the Permittee's obligation to properly obtain a construction permit in a timely manner for any activity constituting construction or modification of the source, as defined in 35 IAC 201.102:

- a. Changes in the material stored in a tank, provided the tank continues to comply with the Conditions in Section 7.4 of this permit.
- b. Changes accounted for in Condition 5.8.

7.4.12 Compliance Procedures

- a. Emissions from each affected storage tank shall be determined through the use of the version 3.1 of the TANKS program.
- b. For the purpose of estimating HAP emissions from equipment at the facility, the vapor and/or liquid weight percent (based on a 1992 USEPA survey or calculations based MSDS for the specific VOL) of each HAP for each product times the VOM emissions contributed by that product is acceptable

7.5 Group 5 Loading Racks

7.5.1 Description

Loading racks associated with many of the storage tanks at the source are used to load and unload various volatile organic liquids from the storage tanks into trucks, barges, and railcars. The VOM emissions from loading occur when material is loaded into delivery vessels. The VOM emissions from unloading material are accounted for in the working losses of the storage tanks that the material is loaded into, with the exception of fugitive emissions that are attributed to the components, i.e., valves, flanges, etc., associated with the loading stations.

7.5.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment	Date of Construction
Loading/Unloading Racks*	Loading Racks Used for Loading Various Volatile Liquid Products into Tank Trucks, Barges, or Railcars	Submerged Loading Pipe Fill ¹	1981

*Loading Rack 1A (4 spouts), Loading Rack 1B (5 spouts), Loading Rack 2A (4 spouts), Loading Rack 2B (4 spouts), Loading Rack 3A (5 spouts), Loading Rack 3B (6 spouts), Loading Rack 4A (4 spouts), Loading Rack 4B (6 spouts), Loading Rack 5A (4 spouts), Loading Rack 5B (6 spouts), Loading Rack 6A (6 spouts), Loading Rack 6B (7 spouts), Loading Rack 7A (0 spouts), Loading Rack 7B (1 spouts), Loading Rack RR-1 (4 spouts), Loading Rack RR-2 (4 spouts), Loading Rack RR-3 (4 spouts), Loading Rack Barge (1 spout)

¹ Loading Rack 1A - Spout 1 and Loading Rack 1B - Spout 1 and 5 are not equipped with submerged loading.

7.5.3 Applicability Provisions and Applicable Regulations

An "affected loading rack," for the purpose of these unit-specific conditions, is a loading rack used to transfer organic materials into a truck, barge, or railcar from any bulk station, subject to the requirements of 35 IAC 218.122.

7.5.4 Non-Applicability of Regulations of Concern

- a. The affected loading rack is not be subject to the requirements of 40 CFR 60 Subpart XX because it does not load materials (e.g., gasoline) that fall under the applicability provisions of the NSPS for Bulk Gasoline Terminals. (See Condition 5.3 and 5.4)
- b. The affected railroad tank car, tank truck and trailer loading racks are not be subject to 35 IAC Part 218, Subpart TT, because they are subject to 35 IAC 218, Subpart. B [35 IAC 218.980(a) and (b)]
- c. The affected barge loading racks are not subject to 35 IAC Part 218, Subpart TT, because these emission units are defined as a "barge loading facilities". [35 IAC 218.980(f)].

7.5.5 Control Requirements and Operational Limitations

Loading into any stationary tank having a storage capacity greater than 250 gallons, or loading of any organic material from the aggregate loading pipes of any loading area into railroad tank car, tank truck or trailer, shall only be conducted if it is equipped with a permanent submerged loading pipe. If no odor nuisance exists, this requirement shall only apply to the loading of VOL with a vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3 °K (70 °F). [35 IAC 218.122]

7.5.6 Emission Limitations

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

N/A

7.5.7 Operating Requirements

N/A

7.5.8 Inspection and Monitoring Requirements

N/A

7.5.9 Recordkeeping Requirements

a. General Recordkeeping

The Permittee shall maintain records of the following for each affected loading rack to demonstrate compliance with Conditions 5.5:

- i. The identification and properties of each organic liquid distributed through each affected loading rack, as related to emissions, i.e., vapor pressure and molecular weight;
- ii. The amount of each organic liquid distributed through each affected loading rack, in gallons per month and gallons per year, with annual records updated each month by totaling the throughput for that month plus the preceding 11 months;
- iii. Emissions of VOM attributable to loading of organic liquid products, in tons/month and tons/year, with supporting calculations, calculated utilizing an approved USEPA methodology, such as Section 5.2 of the AP-42, with annual records updated each month by totaling the throughput for that month plus the preceding 11 months; and

b. Records of Operations

The Permittee shall maintain records of the following for the affected loading rack to demonstrate compliance with Conditions 7.5.5:

N/A

c. Inspection Requirements

The Permittee shall keep the following records for each affected loading rack that delivers liquid product into delivery vessels:

N/A

7.5.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section of noncompliance with the emission limits as follows pursuant to Section 39.5(7)(f)(ii) of the Act:

N/A

7.5.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to an affected loading rack without prior notification to the Illinois EPA or revision of this permit. This condition does not affect the Permittee's obligation to properly obtain a construction permit in a timely manner for any activity constituting construction or modification of the source, as defined in 35 IAC 201.102:

- a. The transfer of volatile organic liquids from a single tank to multiple loading points.
- b. The transfer of volatile organic liquids from multiple tanks to a single loading point.

7.5.12 Compliance Procedures

- a. Monthly VOM emissions from the loading rack shall be determined by use of the following equation:

Total Emissions (lb/month) =

$$L_e = 12.46 \times [S \times P \times M/T]$$

Where:

L = Loading losses, in lbs/1000 gal

S = Saturation factor (unitless)

P = True vapor pressure, in psia

M = Molecular weight of vapors, in lb/lb-mole

T = Temperature of bulk liquid loaded, in degrees Rankine

- b. Monthly HAP emissions from the loading rack shall be determined by speciating the individual HAP emissions as a percentage of the organic liquid throughputs (e.g., hexane represents 1.4% by weight of the VOM in gasoline) and calculating individual HAP emissions as in (a) above. Total monthly HAP emissions will be based on the sum of the emissions for each individual HAP.

7.6 Group 6 Equipment Component Fugitive Emissions

7.6.1 Description

Fugitive emissions from equipment components, such as valves, flanges, etc., are generated during the processing of material through the piping distributed throughout the source.

7.6.2 List of Emission Equipment and Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
Equipment Components	Processing of Material Throughout the Source's Piping System	Work Practices and Equipment Replacement

7.6.3 Applicability Provisions

None

7.6.4 Non-Applicable Regulations

This permit is issued based on the source not being subject to 35 IAC Part 218, Subpart TT, because the Potential To Emit VOM from subject units does not exceed 25 tpy.

7.6.5 Control Requirements

None

7.6.6 Emission Limitations

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

7.6.7 Operating Requirements

None

7.6.8 Inspection Requirements

None

7.6.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the piping components at the source to demonstrate compliance with Condition 7.6.4 pursuant to Section 39.5(7)(b) of the Act.

None

7.6.10 Reporting Requirements

None

7.6.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to these units without prior notification to the Illinois EPA or revision of this permit. This condition does not affect the Permittee's obligation to properly obtain a construction permit in a timely manner for any activity constituting construction or modification of the source, as defined in 35 IAC 201.102:

- a. The Permittee is allowed to repair and replace leaking components on an as needed basis.

7.6.12 Compliance Procedures

Monthly VOM emissions from equipment components shall be determined as follows:

VOM emissions = number of hours per month x 1.705 lb/hr

Where:

Number of hours per month = 720 (Apr., June, Sept., Nov.)

= 672 or 696 (Feb.)

= 744 (all other months); and

The value of 1.705 lb/hr is the emission rate determined from previous stack testing.

Emissions of HAP shall be based on the HAP specialization detailed in the Permittee's Fugitive Emissions Monitoring Report.

7.7 Group 7 Boiler - Natural Gas-Fired Boiler, with a heat input capacity less than 100 Motu/hr, and greater than 10 Motu/hr

7.7.1 Description

The boiler combusts natural gas to produce steam for heating during loading and unloading of materials.

7.7.2 List of emission equipment and pollution control equipment

Plant Emission Unit	Description	Emission Control	Date Constructed
CB200-5000	20.9 mBtu/hr Gas Fired	None	1981

7.7.3 Applicable Regulations

- a. An affected boiler for the purpose of these unit specific conditions is a steam generating unit that is fired with natural gas or distillate oil, with a heat input capacity greater than 10 Motu/hr. As of the "date issued" as shown on page 1 of this permit, the affected boiler is identified in Condition 7.7.2.
- b.
 - i. The emissions of particulate matter (PM) into the atmosphere in any one hour period shall not exceed 0.15 kg/MW-hr (0.10 lb/MBtu) of actual heat input from any fuel combustion emission unit using liquid fuel exclusively. [35 IAC 212.206]
 - ii. The emission of sulfur dioxide (SO₂) into the atmosphere in any one hour period from any existing fuel combustion emission unit, burning liquid fuel exclusively shall not exceed 0.46 kg of sulfur dioxide per MW-hr of actual heat input when distillate fuel oil is burned (0.3 lb/MBtu). [35 IAC 214.161(b)]
 - iii. The emission of carbon monoxide (CO) into the atmosphere from any affected boiler with actual heat input greater than 2.9 MW (10 MBtu/hr) shall not exceed 200 ppm, corrected to 50 percent excess air. [35 IAC 216.121]
- c. The affected boiler is subject to the opacity limits identified in Condition 5.2.2(b).

7.7.4 Non-Applicability of Regulations of Concern

- a. The New Source Performance Standard for Small-Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Dc, applies to units constructed, reconstructed, or modified after June 9, 1989, with firing rates of 100 Mtu/hr or less, but greater than 10 Mtu/hr. The affected boiler's commenced date of construction was prior to June 9, 1989. Therefore, this rule does not apply. [40 CFR 60.40c(a)]
- b. The affected boiler is not subject to 35 IAC 217.141, emissions of NO_x from existing fuel combustion emission units in major metropolitan areas, because the actual heat input of each affected boiler is less than 73.2 MW (250 MBtu/hr). [35 IAC 217.141]
- c. The affected boiler is not subject to 35 IAC 218.301, Use of Organic Material, because the affected boiler is defined as a fuel combustion emission unit. [35 IAC 218.303]

7.7.5 Operational and Production Limits and Work Practices

- a. Each affected boiler shall only be operated with natural gas or distillate fuel oil as the fuels.
- b. The Permittee shall not use distillate fuel oil (Grades No. 1 and 2 fuels) in the affected boilers with a sulfur content greater than the larger of the following two values:
 - i. 0.28 weight percent, or
 - ii. The Wt percent given by the formula:
$$\text{Maximum Wt percent sulfur} = (0.000015) \times (\text{Gross heating value of oil, Btu/lb}).$$

7.7.6 Emission Limitations

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

None

7.7.7 Testing Requirements

None

7.7.8 Monitoring Requirements

None

7.7.9 Recordkeeping Requirements

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

- a. Monthly and annual natural gas usage (ft³/Mo and ft³/year) for the affected boiler;
- b. Monthly and annual distillate fuel oil usage (gal/Mo and gal/year) for the affected boiler;
- c. The maximum sulfur content (in wt.%) for each shipment of distillate fuel oil used in the affected boiler; and
- d. Monthly and annual aggregate NO_x, PM, SO_x, and VOM emissions (ton/Mo and ton/year) from the affected boilers shall be maintained, based on fuel consumption records and the compliance procedures in 7.7.12.

7.7.10 Reporting Requirements

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

- a. Notification within 60 days of operation of an affected boiler that may not have been compliance with the opacity limitations in Condition 5.2.2(b), with a copy of such record for each incident.
- b. If there is an exceedance of sulfur content of distillate fuel oil in excess of the limit specified in Condition 7.7.5, the Permittee shall submit a report within 30 days after receipt of a noncompliant shipment of distillate fuel oil.
- c. Emissions of NO_x, PM, SO_x, or VOM from the affected boiler in excess of the limits specified in Condition 5.5.1 based on the current month's records plus the preceding 11 months within 30 days of such an occurrence.

7.7.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.7.12 Compliance Procedures

- a. Compliance with Condition 7.7.3(b)(i) and (iii) is demonstrated under inherent operating conditions of the affected boiler, so that no compliance procedures are set in this permit addressing this requirement.
- b. Compliance with Condition 7.7.3(b)(ii) is demonstrated under inherent operating conditions of the affected boiler fired by distillate oil with a sulfur content meeting the specification of Condition 7.7.5(b), so that no compliance procedures are set in this permit addressing this regulation.
- c. Compliance with the emission limits in Conditions 5.5.1 and 5.5.3 shall be based on the recordkeeping requirements in Condition 7.7.9 and the emission factors and formulas listed below:
 - i. Emissions from the affected boilers burning natural gas shall be calculated based on the following emission factors:

Pollutant	Emission Factor (lb/10 ⁶ ft ³)
NO _x	100.0
PM	7.6
SO _x	0.6
VOM	5.5

These are the emission factors for uncontrolled natural gas combustion in small industrial boilers (<100 mmBtu/hr), Tables 1.4.1 and 1.4.2, AP-42, Volume I, 5th Edition, March 1998 Revision.

Boiler Emissions (lb) = natural gas consumed multiplied by the appropriate emission factor.

- ii. Emissions from the affected boilers burning distillate fuel oil shall be calculated based on the following emission factors:

Pollutant	Emission Factor (lb/10 ³ gallon)
PM	2
NO _x	20
SO _x	7.1
VCM	0.34

These are the emission factors for uncontrolled distillate fuel oil combustion in commercial/institutional/residential combustors, Tables 1.3-1 and 1.3-2, AP-42, Volume I, Supplement F, October, 1996.

Boiler Emissions (lb) = distillate fuel oil consumed (gallons) multiplied by the appropriate emission factor.

- iii. Compliance with annual limits shall be determined from a running total of 12 months of data (e.g., for the annual totals, for the month of January, the emissions from February of the preceding year through January, for the month of February, the emissions from March of the preceding calendar year through February, 12 months in all).
- iv. Total emissions for each pollutant are to be determined by combining the results of Conditions 7.7.12 (i) and (ii) for the affected boiler.

8.0 GENERAL PERMIT CONDITIONS

8.1 Permit Shield

Pursuant to Section 39.5(7)(j) of the Act, the Permittee has requested and has been granted a permit shield. This permit shield provides that compliance with the conditions of this permit shall be deemed compliance with applicable requirements which were applicable as of the date the proposed permit for this source was issued, provided that either the applicable requirements are specifically identified within this permit, or the Illinois EPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to this source and this determination (or a concise summary thereof) is included in this permit.

This permit shield does not extend to applicable requirements which are promulgated after July 24, 1999 (the date of issuance of the draft permit) unless this permit has been modified to reflect such new requirements.

8.2 Applicability of Title IV Requirements (Acid Deposition Control)

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

8.3 Emissions Trading Programs

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

8.4 Operational Flexibility/Anticipated Operating Scenarios

8.4.1 Changes Specifically Addressed by Permit

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

8.4.2 Changes Requiring Prior Notification

The Permittee is authorized to make physical or operational changes without applying for or obtaining an amendment to this permit, provided that the changes do not constitute a modification under Title I of the CAA, emissions will not exceed the emissions allowed under this permit following implementation of the physical or operational change, and the Permittee provides written notice to the Illinois EPA, Division of Air Pollution Control, Permit Section, at least 7 days before commencement of the change [Section 39.5(12)(a) of the Act]. This notice shall:

- a. Describe the physical or operational change;
- b. Identify the schedule for implementing the physical or operational change;
- c. Provide a statement of whether or not any New Source Performance Standard (NSPS) is applicable to the physical or operational change and the reason why the NSPS does or does not apply;
- d. Provide emission calculations which demonstrate that the physical or operational change will not result in a modification; and
- e. Provide a certification that the physical or operational change will not result in emissions greater than authorized under the Conditions of this permit.

8.5 Testing Procedures

Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be conducted using standard test methods. Documentation of the test 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

A report summarizing required monitoring as specified in the conditions of this permit shall be submitted to the Air Compliance Section of the Illinois EPA every six months as follows [Section 39.5(7)(f) of the Act]:

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

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

8.6.2 Test Notifications

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

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

8.6.3 Test Reports

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

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

8.6.4 Reporting Addresses

a. The following addresses should be utilized for the submittal of reports, notifications, and renewals:

i. Illinois EPA - Air Compliance Section

Illinois Environmental Protection Agency
Bureau of Air
Compliance Section (MC 40)
P.O. Box 19276
Springfield, Illinois 62794-9276

ii. Illinois EPA - Air Regional Field Office

Illinois Environmental Protection Agency
Division of Air Pollution Control
Eisenhower Tower
1701 South First Avenue
Maywood, Illinois 60153

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

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

iv. USEPA Region 5 - Air Branch

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

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

8.7 Obligation to Comply with Title I Requirements

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

9.0 STANDARD PERMIT CONDITIONS

9.1 Effect of Permit

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

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

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

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

9.2 General Obligations of Permittee

9.2.1 Duty to Comply

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

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

9.2.2 Duty to Maintain Equipment

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

9.2.3 Duty to Cease Operation

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

9.2.4 Disposal Operations

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

9.2.5 Duty to Pay Fees

The Permittee must pay fees to the Illinois EPA consistent with the fee schedule approved pursuant to Section 39.5(18) of the Act, and submit any

information relevant thereto [Section 39.5(7)(o)(vi) of the Act]. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois Environmental Protection Agency, P.O. Box 19276, Springfield, Illinois 62794-9276.

9.3 Obligation to Allow Illinois EPA Surveillance

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

- a. Enter upon the Permittee's premises where an actual or potential emission unit is located; where any regulated equipment, operation, or activity is located or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect during hours of operation any sources, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- d. Sample or monitor any substances or parameters at any location:
 - i. At reasonable times, for the purposes of assuring permit compliance; or
 - ii. As otherwise authorized by the CAA, or the Act.
- e. Obtain and remove samples of any discharge or emission of pollutants; and
- f. Enter and utilize any photographic, recording, testing, monitoring, or other equipment for the purposes of preserving, testing, monitoring, or recording any activity, discharge or emission at the source.

9.4 Obligation to Comply With Other Requirements

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

9.5 Liability

9.5.1 Title

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

9.5.2 Liability of Permittee

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

9.5.3 Structural Stability

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

9.5.4 Illinois EPA Liability

This permit in no manner implies or suggests that the Illinois EPA (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the source.

9.5.5 Property Rights

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

9.6 Recordkeeping

9.6.1 Control Equipment Maintenance Records

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

9.6.2 Records of Changes in Operation

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

9.6.3 Retention of Records

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

9.7 Annual Emissions Report

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

9.8 Requirements for Compliance Certification

Pursuant to Section 39.5(7)(p)(v) of the Act, the Permittee shall submit annual compliance certifications. The compliance certifications shall be submitted no later than May 1 or more frequently as specified in the applicable requirements or by permit condition. The compliance certifications shall be submitted to the Air Compliance Section, Air Regional Field Office, and USEPA Region 5 - Air Branch. The addresses for the submittal of the compliance certifications are provided in Condition 8.6.4 of this permit.

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

9.9 Certification

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

9.10 Defense to Enforcement Actions

9.10.1 Need to Halt or Reduce Activity Not a Defense

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

9.10.2 Emergency Provision

- a. An emergency shall be an affirmative defense to an action brought for noncompliance with the technology-based emission limitations under this permit if the following conditions are met through properly signed, contemporaneous operating logs, or other relevant evidence:
 - i. An emergency occurred as provided in Section 39.5(7)(k) of the Act and the Permittee can identify the cause(s) of the emergency. Normally, an act of God such as lightning or flood is considered an emergency;
 - ii. The permitted source was at the time being properly operated;
 - iii. The Permittee submitted notice of the emergency to the Illinois EPA within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
 - iv. During the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded

the emission limitations, standards, or regulations in this permit.

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

9.11 Permanent Shutdown

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

9.12 Reopening and Reissuing Permit for Cause

9.12.1 Permit Actions

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

9.12.2 Reopening and Revision

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

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

9.12.3 Inaccurate Application

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

9.12.4 Duty to Provide Information

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

9.13 Severability Clause

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

9.14 Permit Expiration and Renewal

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

10.0 ATTACHMENTS

10.1 Attachment 1 Summary of Storage Tank Features and Groupings

TABLE 1-1

<u>Group/Tank No.</u>	<u>Capacity (Barrels)</u>	<u>Tank Type</u>	<u>Primary Seal</u>	<u>Secondary Seal</u>	<u>Material Stored</u>	<u>Expected Max. Vapor Pressure (psia at 70°F)</u>	<u>Date Constructed</u>
Group 1							
Tank TK54	715	Fixed	None	None	Various Organic Liquid Products	<2.5	1981
Tank TK55	715	Fixed	None	None	Various Organic Liquid Products	<2.5	1981
Tank TK56	715	Fixed	None	None	Various Organic Liquid Products	<2.5	1981
Tank TK58	715	Fixed	None	None	Various Organic Liquid Products	<2.5	1981

<u>Group/Tank No.</u>	<u>Capacity (Barrels)</u>	<u>Tank Type</u>	<u>Primary Seal</u>	<u>Secondary Seal</u>	<u>Material Stored</u>	<u>Expected Max. Vapor Pressure (psia at 70°F)</u>	<u>Date Constructed</u>
Tank TK59	715	Fixed	None	None	Various Organic Liquid Products	<2.5	1981
Tank TK60	715	Fixed	None	None	Various Organic Liquid Products	<2.5	1981
Tank TK61	715	Fixed	None	None	Various Organic Liquid Products	<2.5	1981
Tank TK62	715	Fixed	None	None	Various Organic Liquid Products	<2.5	1981
Tank TK63	715	Fixed	None	None	Various Organic Liquid Products	<2.5	pre-1972
Tank TK64	715	Fixed	None	None	Various Organic Liquid Products	<2.5	pre-1972

<u>Group/Tank No.</u>	<u>Capacity (Barrels)</u>	<u>Tank Type</u>	<u>Primary Seal</u>	<u>Secondary Seal</u>	<u>Material Stored</u>	<u>Expected Max. Vapor Pressure (psia at 70°F)</u>	<u>Date Constructed</u>
Tank TK65	715	Fixed	None	None	Various Organic Liquid Products	<2.5	pre-1972
Tank TK66	715	Fixed	None	None	Various Organic Liquid Products	<2.5	1981
Tank TK67	715	Fixed	None	None	Various Organic Liquid Products	<2.5	1981
Tank TK68	715	Fixed	None	None	Various Organic Liquid Products	<2.5	1981
Tank TK75	715	Fixed	None	None	Various Organic Liquid Products	<2.5	1981
Tank TK76	715	Fixed	None	None	Various Organic Liquid Products	<2.5	1981

<u>Group/Tank No.</u>	<u>Capacity (Barrels)</u>	<u>Tank Type</u>	<u>Primary Seal</u>	<u>Secondary Seal</u>	<u>Material Stored</u>	<u>Expected Max. Vapor Pressure (psia at 70°F)</u>	<u>Date Constructed</u>
Tank TK77	715	Fixed	None	None	Various Organic Liquid Products	<2.5	1981
Tank TK78	715	Fixed	None	None	Various Organic Liquid Products	<2.5	1981
Tank TK79	715	Fixed	None	None	Various Organic Liquid Products	<2.5	1981
Tank TK-201	143	Fixed	None	None	Various Organic Liquid Products	<2.5	1981
Tank TK-202	143	Fixed	None	None	Various Organic Liquid Products	<2.5	1981
Tank TK-203	143	Fixed	None	None	Various Organic Liquid Products	<2.5	1981

<u>Group/Tank No.</u>	<u>Capacity (Barrels)</u>	<u>Tank Type</u>	<u>Primary Seal</u>	<u>Secondary Seal</u>	<u>Material Stored</u>	<u>Expected Max. Vapor Pressure (psia at 70°F)</u>	<u>Date Constructed</u>
Tank TK-205A	242	Fixed	None	None	Various Organic Liquid Products	<2.5	1981
Tank T-204	238	Fixed	None	None	Various Organic Liquid Products	<2.5	1997
Group 2 Tank T-205B	262	Fixed	None	None	Various Organic Liquid Products	<2.5	1997
Tank T-205C	262	Fixed	None	None	Various Organic Liquid Products	<2.5	1997

<u>Group/Tank No.</u>	<u>Capacity (Barrels)</u>	<u>Tank Type</u>	<u>Primary Seal</u>	<u>Secondary Seal</u>	<u>Material Stored</u>	<u>Expected Max. Vapor Pressure (psia at 70°F)</u>	<u>Date Constructed</u>
Group 3							
Tank TK1	30,000	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK2	10,000	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK5	10,000	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK6	5,033	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK7	20,301	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK8	20,301	Fixed	None	None	Various Organic Liquid Products	<0.75	1981

<u>Group/Tank No.</u>	<u>Capacity (Barrels)</u>	<u>Tank Type</u>	<u>Primary Seal</u>	<u>Secondary Seal</u>	<u>Material Stored</u>	<u>Expected Max. Vapor Pressure (psia at 70°F)</u>	<u>Date Constructed</u>
Tank TK9	9,865	Fixed	None	None	Various Organic Liquid Products	<0.75	1988
Tank TK10	9,865	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK11	9,865	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK12	9,865	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK13	20,301	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK14	24,972	Fixed	None	None	Various Organic Liquid Products	<0.75	1981

<u>Group/Tank No.</u>	<u>Capacity (Barrels)</u>	<u>Tank Type</u>	<u>Primary Seal</u>	<u>Secondary Seal</u>	<u>Material Stored</u>	<u>Expected Max. Vapor Pressure (psia at 70°F)</u>	<u>Date Constructed</u>
Tank TK15	9,865	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK16	9,865	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK17	9,865	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK18	15,462	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK19	24,973	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK20	9,865	Fixed	None	None	Various Organic Liquid Products	<0.75	1981

<u>Group/Tank No.</u>	<u>Capacity (Barrels)</u>	<u>Tank Type</u>	<u>Primary Seal</u>	<u>Secondary Seal</u>	<u>Material Stored</u>	<u>Expected Max. Vapor Pressure (psia at 70°F)</u>	<u>Date Constructed</u>
Tank TK21	9,865	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK22	15,462	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK25	9,865	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK26	9,865	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK27	9,865	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK29	30,126	Fixed	None	None	Various Organic Liquid Products	<0.75	1981

<u>Group/Tank No.</u>	<u>Capacity (Barrels)</u>	<u>Tank Type</u>	<u>Primary Seal</u>	<u>Secondary Seal</u>	<u>Material Stored</u>	<u>Expected Max. Vapor Pressure (psia at 70°F)</u>	<u>Date Constructed</u>
Tank TK30	15,462	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK31	15,462	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK35	5,033	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK37	15,462	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK38	15,462	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK51	5,033	Fixed	None	None	Various Organic Liquid Products	<0.75	1981

<u>Group/Tank No.</u>	<u>Capacity (Barrels)</u>	<u>Tank Type</u>	<u>Primary Seal</u>	<u>Secondary Seal</u>	<u>Material Stored</u>	<u>Expected Max. Vapor Pressure (psia at 70°F)</u>	<u>Date Constructed</u>
Tank TK70	5,033	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK71	5,033	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK73	15,462	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK74	6,865	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK83	9865	Fixed	None	None	Various Organic Liquid Products	<0.75	1981
Tank TK84	9865	Fixed	None	None	Various Organic Liquid Products	<0.75	1981

<u>Group/Tank No.</u>	<u>Capacity (Barrels)</u>	<u>Tank Type</u>	<u>Primary Seal</u>	<u>Secondary Seal</u>	<u>Material Stored</u>	<u>Expected Max. Vapor Pressure (psia at 70°F)</u>	<u>Date Constructed</u>
Group 4							
Tank TK28	15,462	Internal Floating Roof	Mechanical Shoe	Rim- Mounted	Various Organic Liquid Products	<11.1	1981
Tank TK32	11,592	Internal Floating Roof	Mechanical Shoe	Rim- Mounted	Various Organic Liquid Products	<11.1	1981
Tank TK33	15,462	Internal Floating Roof	Mechanical Shoe	Rim- Mounted	Various Organic Liquid Products	<11.1	1981
Tank TK34	20,301	Internal Floating Roof	Mechanical Shoe	Rim- Mounted	Various Organic Liquid Products	<11.1	1981
Tank TK36	5,033	Internal Floating Roof	Mechanical Shoe	Rim- Mounted	Various Organic Liquid Products	<11.1	1981
Tank TK40	9,865	Internal Floating Roof	Mechanical Shoe	Rim- Mounted	Various Organic Liquid Products	<11.1	1981

<u>Group/Tank No.</u>	<u>Capacity (Barrels)</u>	<u>Tank Type</u>	<u>Primary Seal</u>	<u>Secondary Seal</u>	<u>Material Stored</u>	<u>Expected Max. Vapor Pressure (psia at 70°F)</u>	<u>Date Constructed</u>
Tank TK41	15,462	Internal Floating Roof	Mechanical Shoe	Rim- Mounted	Various Organic Liquid Products	<11.1	1981
Tank TK42	30,126	Internal Floating Roof	Mechanical Shoe	Rim- Mounted	Various Organic Liquid Products	<11.1	1981
Tank TK43	30,126	Internal Floating Roof	Mechanical Shoe	Rim- Mounted	Various Organic Liquid Products	<11.1	1981
Tank TK44	30,126	Internal Floating Roof	Rim- Mounted	None	Various Organic Liquid Products	4.5	1981
Tank TK45	24,972	Internal Floating Roof	Mechanical Shoe	Rim- Mounted	Various Organic Liquid Products	<11.1	1981
Tank TK46	9,865	Internal Floating Roof	Mechanical Shoe	Rim- Mounted	Various Organic Liquid Products	<11.1	1981

<u>Group/Tank No.</u>	<u>Capacity (Barrels)</u>	<u>Tank Type</u>	<u>Primary Seal</u>	<u>Secondary Seal</u>	<u>Material Stored</u>	<u>Expected Max. Vapor Pressure (psia at 70°F)</u>	<u>Date Constructed</u>
Tank TK47	9,865	Internal Floating Roof	Mechanical Shoe	Rim- Mounted	Various Organic Liquid Products	<11.1	1981
Tank TK48	5,033	Internal Floating Roof	Mechanical Shoe	Rim- Mounted	Various Organic Liquid Products	<11.1	1981
Tank TK49	20,301	Internal Floating Roof	Mechanical Shoe	Rim- Mounted	Various Organic Liquid Products	<11.1	1981
Tank TK50	20,301	Internal Floating Roof	Mechanical Shoe	Rim- Mounted	Various Organic Liquid Products	<11.1	1981
Tank TK52	15,462	Internal Floating Roof	Mechanical Shoe	Rim- Mounted	Various Organic Liquid Products	<11.1	1981

10.2 Attachment 2 - Example Certification by a Responsible Official

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

Signature: _____

Name: _____

Official Title: _____

Telephone No.: _____

Date Signed: _____

MED:psj

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.

The Exxon Midwest Terminal is a storage terminal for volatile organic liquid. The products are typically delivered to the terminal by barge or railcar and pumped into bulk storage tanks. These liquids are then loaded directly into delivery vessels from a specific storage tank or the liquids are blended pursuant to customer specifications and then loaded delivery vessels. Emission units at the site consist of several volatile organic liquid storage tanks, loading racks for the loading/unloading of delivery vessels, fugitive emissions from piping, and natural gas fired boiler.

II. EMISSION UNITS

Significant emission units at this source are as follows:

Emission Unit	Description	Emission Control Equipment
Group 1 Storage Tanks (See Attachment 1 of the Permit for Details)	Fixed Roof Storage Tanks With Capacity Less Than 40,000 Gallons	Permanent Submerged Fill
Group 2 Storage Tanks (See Attachment 1 of the Permit for Details)	Fixed Roof Storage Tanks with Capacity Less Than 40,000 Gallons Subject to 40 CFR 60 Subpart Kb	Permanent Submerged Fill
Group 3 Storage Tanks (See Attachment 1 of the Permit for Details)	Fixed Roof Storage Tanks With Capacity Greater Than 40,000 Gallons	Permanent Submerged Fill
Group 4 Storage Tanks (See Attachment 1 of the Permit for Details)	Internal Floating Roof Storage Tanks	Floating Roof With Primary And Secondary Seals
Group 5 Transfer/ Loading Operations	Loading Racks for the Loading/Unloading of Delivery Vessels	None
Group 6 Fugitive Emissions	Piping, Valves, and Pumps Used to Transfer Materials Between the Storage Tanks and at the Loading/ Unloading Station	None

Emission Unit	Description	Emission Control Equipment
Group 7 Boiler	Fuel Combustion Unit Fired on Natural Gas (With Distillate Oil Backup)	None

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:

Pollutant	Tons/Year
Volatile Organic Material (VOM)	99.99
Sulfur Dioxide (SO ₂)	0.09
Particulate Matter (PM)	1.39
Nitrogen Oxides (NO _x)	12.89
HAP, not included in VOM or PM	-
TOTAL	114.36

This permit is a combined Title I/CAAPP permit that may contain terms and conditions which address the applicability, and compliance if determined applicable, of Title I of the Clean Air Act and regulations promulgated thereunder, including 40 CFR 52.21 - federal Prevention of Significant Deterioration (PSD) and 35 IAC Part 203 - Major Stationary Sources Construction and Modification. Any such terms and conditions are identified within the permit by T1, T1R or T1N. The Source has requested that the Illinois EPA establish or revise such conditions in a Title I permit, consistent with the information provided in the CAAPP application. Any conditions established in a construction permit pursuant to Title I and not revised or deleted in this permit, remain in effect pursuant to Title I provisions until such time that the Illinois EPA revises or deletes them.

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.

Because this source is located in the Chicago ozone nonattainment area and emits volatile organic material, the permit includes conditions to implement the Emission Reduction Market System (ERMS). The ERMS is a market-based program designed to reduce emissions from stationary sources to contribute to further reasonable progress toward attainment, as further described in section 6 of the permit. The permit contains the Illinois EPA's determination of the source's baseline emissions and allotment of trading units under the ERMS, and identifies units not subject to further reductions. The permit also provides that the source must begin to operate under the ERMS following the initial issuance of trading units to the source. This will occur for the 2000 seasonal allotment period (rather than the 1999 season as originally intended by the ERMS) due in part to delays in the initial issuance of CAAPP Permits. These delays, which have occurred nationally, are attributable to a variety of causes including the unforeseen complexity of processing these permits and gaps in national guidance. Even though operation under the ERMS will not officially start until the 2000 seasonal

allotment period, detailed recordkeeping and reporting of seasonal emissions was required beginning in 1998, which will document emission reductions achieved by sources in 1999 in preparation for the ERMS.

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 interest is shown in this matter, the Illinois EPA will consider holding a public hearing in accordance with 35 Ill. Adm. Code Part 164.

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