

217/782-2113

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

PERMITTEE

Diversified CPC International  
Attn: William A. Frauenheim, III  
24338 West Durkee Road  
Channahon, Illinois 60410

Application No.: 96030087                      I.D. No.: 197800AAU  
Applicant's Designation:                      Date Received: March 7, 1996  
Operation of: Production of Aerosol Grade Propellants  
Date Issued: September 22, 2000              Expiration Date<sup>2</sup>: September 22, 2005  
Source Location: 24338 West Durkee Road, Channahon, Will  
Responsible Official: William A. Frauenheim, III, Director of Operations

This permit is hereby granted to the above-designated Permittee to OPERATE a industrial grade aerosol propellant processing source, pursuant to the above referenced permit application. This permit is subject to the conditions contained herein.

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

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

DES:DGP:jar

cc: Illinois EPA, FOS, Region 1  
USEPA

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

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

TABLE OF CONTENTS

	<u>PAGE</u>
1.0 SOURCE IDENTIFICATION	4
1.1 Source	
1.2 Owner/Parent Company	
1.3 Operator	
1.4 General Source Description	
2.0 LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT	5
3.0 INSIGNIFICANT ACTIVITIES	6
3.1 Identification of Insignificant Activities	
3.2 Addition of Insignificant Activities	
4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE	9
5.0 OVERALL SOURCE CONDITIONS	10
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	
6.0 EMISSION REDUCTION MARKET SYSTEM (ERMS)	16
6.1 Description of ERMS	
6.2 Applicability	
6.3 Obligation to Hold Allotment Trading Units	
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	
7.0 UNIT SPECIFIC CONDITIONS	23
7.1 Unit 01 - Thermal Fluid Heater Control 01 - None	
7.2 Unit 02 - Loading/Unloading Stations Control 02 - Flare F-1	

	<u>PAGE</u>
8.0 GENERAL PERMIT CONDITIONS	38
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	43
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 - Example Certification by a Responsible Official	1-1

1.0 SOURCE IDENTIFICATION

1.1 Source

Diversified CPC International, Inc.  
24338 West Durkee Road  
Channahon, Illinois 60410-0490  
815/423-5991

I.D. No.: 197800AAU  
Standard Industrial Classification: 2813, Industrial gases

1.2 Owner/Parent Company

Diversified CPC International, Inc.  
24338 West Durkee Road  
Channahon, Illinois 60410-0490

1.3 Operator

Diversified CPC International, Inc.  
24338 West Durkee Road  
Channahon, Illinois 60410-0490

William Frauenheim III  
815/423-5991

1.4 General Source Description

Diversified CPC International, Inc., is located at 24338 west Durkee Road, Channahon in Will County. The source processes industrial grade aerosol propellants and combusts natural gas and liquefied petroleum gas for operation of a thermal fluid heater. In addition, the source has fugitive VOM emissions from pumps, valves, compressors, line connections, and cooling tower.

2.0 LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT

ACMA	Alternative Compliance Market Account
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
CO	Carbon Monoxide
ERMS	Emission Reduction Marketing System
gr	grain
HAP	Hazardous Air Pollutant
hr	hour
IAC	Illinois Administrative Code
I.D. No.	Identification Number of Source, assigned by Illinois EPA
Illinois EPA	Illinois Environmental Protection Agency
kW	kilowatts
L	liter
lb	pound
MACT	Maximum Available Control Technology
mmBtu	Million British thermal units
MW	Megawatts
NO <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standards
PM	Particulate Matter
PM <sub>10</sub>	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
ppm	parts per million
PSD	Prevention of Significant Deterioration
SO <sub>2</sub>	Sulfur Dioxide
T	Ton
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
USEPA	United States Environmental Protection Agency
VOL	Volatile Organic Liquid
VOM	Volatile Organic Material
yr	Year

### 3.0 INSIGNIFICANT ACTIVITIES

#### 3.1 Identification of Insignificant Activities

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

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

None

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

Pressure storage tanks of propane isobutane, n-butane, n-pentane, isopentane, dimethyl ether, R134a, and R152a provided the emissions never exceed 0.44 T/Yr of any regulated air pollutant in the absence of air pollution control equipment and that do not emit any air pollutant listed as hazardous pursuant to Section 112(b) of the CAA [35 IAC 201.210(a)(3)].

Tank sizes and numbers are as follows:

<u>Size (Gal)</u>	<u>Tank No.</u>
30,000	101-106, 201-200
10,000	109
7,000	107, 108
6,600	110,111
3,400	112

Note that all valves and other components with the above tanks must be included in the fugitive emissions program, unless the material is not a VOM.

Thermal fluid piping system provided the emissions never exceed 0.44 T/Yr of any regulated air pollutant in the absence of air pollution control equipment and that do not emit any air pollutant listed as hazardous pursuant to Section 112(b) of the CAA [35 IAC 201.210(a)(3)].

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

Direct combustion units designed and used for comfort heating purposes and fuel combustion emission units as follows: (A) Units with a rated heat input capacity of less than 2.5 mmBtu/hr that fire only natural gas, propane, or liquefied petroleum gas; (B)

Units with a rated heat input capacity of less than 1.0 mmBtu/hr that fire only oil or oil in combination with only natural gas, propane, or liquefied petroleum gas; and (C) Units with a rated heat input capacity of less than 200,000 Btu/hr which never burn refuse, or treated or chemically contaminated wood [35 IAC 201.210(a)(4)].

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

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

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

### 3.2 Compliance with Applicable Requirements

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

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

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

3.2.3 For each organic material emission unit that uses organic material, e.g., a mixer or printing line, the Permittee shall comply with the applicable VOM emission limit of 35 IAC 215.301, 218.301, or 219.301, which requires that organic material emissions not exceed 8.0 pounds per hour or do not qualify as photochemically reactive material as defined in 35 IAC 211.4690.

### 3.3 Addition of Insignificant Activities

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

4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE

Emission Unit	Description	Date Constructed	Emission Control Equipment
Unit 01	Thermal Fluid Heater	1981	None
Unit 02	Loading/ Unloading Stations <sup>a</sup>	1981, 03/96, and 06/96	Flare (F-1)
Fugitive VOM Emissions	Pumps, Valves, Line Connections, and Cooling Tower	-----	None

<sup>a</sup> Specific Nos. are as follows:

S-1 to S-12, S-19, and S-20 - Loading and Unloading Stations for Railcars

S-13 - Unloading Station for Tank Trucks

S-14 - Loading/Unloading Station for Tank Trucks

S-15 to S-18 - Unloading Stations for Tank Trucks

S-21 - Cylinder Filling Station

## 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.
  - b. No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, pursuant to 35 IAC 212.123(a), except as allowed by 35 IAC 212.123(b) and 212.124.
  - c. No person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission unit to exceed 2,000 ppm [35 IAC 214.301].
- 5.2.3 The Permittee shall comply with the standards for recycling and emissions reduction of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:
  - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
  - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

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

#### 5.2.4 Risk Management Plan

- a. This stationary source, as defined in 40 CFR Section 68.3, is subject to 40 CFR Part 68, the Accidental Release Prevention regulations [40 CFR 68.215(a)(1)].
- b. The owner or operator of a stationary source shall revise and update the RMP submitted, as specified in 40 CFR 68.190.

- 5.2.5
  - a. Should this stationary source become subject to a regulation under 40 CFR Parts 60, 61, or 63, or 35 IAC after the date issued of this permit, then the owner or operator shall, in accordance with the applicable regulation(s), comply with the applicable requirements by the date(s) specified and shall certify compliance with the applicable requirements of such regulation(s) as part of the annual compliance certification, as required by 40 CFR Part 70 or 71.
  - b. No later than upon the submittal for renewal of this permit, the owner or operator shall submit, as part of an application, the necessary information to address either the non-applicability of, or demonstrate compliance with all applicable requirements of any potentially applicable regulation which was promulgated after the date issued of this permit.

#### 5.2.6 Episode Action Plan

- a. If the source is required to have an episode action plan pursuant to 35 IAC 244.142, the Permittee shall maintain at the source and have on file with the Illinois EPA a written episode action plan (plan) for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The plan shall contain the information specified in 35 IAC 244.144.
- b. The Permittee shall immediately implement the appropriate steps described in this plan should an air pollution alert or emergency be declared.
- c. If a change occurs at the source which requires a revision of the plan (e.g., operational change,

change in the source contact person), a copy of the revised plan shall be submitted to the Illinois EPA for review within 30 days of the change. Such plans shall be further revised if disapproved by the Illinois EPA.

- d. For sources required to have a plan pursuant to 35 IAC 244.142, a copy of the original plan and any subsequent revisions shall be sent to:
  - i. Illinois EPA, Compliance Section; and
  - ii. For sources located in Cook County and outside of the city of Chicago: Cook County Department of Environmental Control; or
  - iii. For sources located within the city of Chicago: Chicago Department of Environmental Control.

### 5.3 Non-Applicability of Regulations of Concern

5.3.1 This permit is issued based on the source not being subject to 35 IAC Part 212.302, Subpart A, because the source is not located within the city limits of Channahon.

5.3.2 This permit is issued based on the source not being subject to 40 CFR Part 60, Subpart NNN or RRR (NSPS for SOCOMI Distillation Operations and Reactors) because the equipment was constructed prior to the applicability dates and/or the operations do not involve distillation or reacting although they are generally considered SOCOMI operations by the SIC code.

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

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

None

### 5.5 Source-Wide Emission Limitations

#### 5.5.1 Permitted Emissions for Fees

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

purpose of establishing fees and are not federally enforceable.

Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	99.6
Sulfur Dioxide (SO <sub>2</sub> )	0.03
Particulate Matter (PM)	0.72
Nitrogen Oxides (NO <sub>x</sub> )	15.24
HAP, not included in VOM or PM	-----
TOTAL	115.59

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

Although for purposes of fees, the limits in Condition 5.5.1 are not federally enforceable, the VOM limit of 99.6 tons/yr is federally enforceable because it is imposed pursuant to 40 CFR 52.21, federal rules for Prevention of Significant Deterioration (PSD). The emission units were constructed in 1981 when Will County was classified as an attainment area. For the type of operation performed at the source (SIC 2813) fugitive emissions must be included in the calculation of total emissions and 100 tons/year was considered a major source in 1981. This limit of 99.6 tons/yr of VOM includes emissions during malfunction/breakdown.

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].

5.6 General Recordkeeping Requirements

5.6.1 Emission Records

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

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

5.6.2 Records for Operating Scenarios

N/A

5.6.3 Retention and Availability of Records

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

5.7 General Reporting Requirements

5.7.1 General Source-Wide Reporting Requirements

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

5.7.2 Annual Emissions Report

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

5.8 General Operational Flexibility/Anticipated Operating Scenarios

N/A

5.9 General Compliance Procedures

5.9.1 General Procedures for Calculating VOM Emissions

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

- a. For the purpose of estimating fugitive VOM emissions from valves, pumps, compressors, line connections,

and cooling tower at the source, the emission factors found in "1995 Protocol for Equipment Leak Emission Estimates" published in USEPA in November 1995 by the Emission Standards Division of DAQPS, "EOA-453/R-95-017". Summaries of this lengthy document are also acceptable.

## 6.0 EMISSION REDUCTION MARKET SYSTEM (ERMS)

### 6.1 Description of ERMS

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

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

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

In addition to receiving ATUs pursuant to their allotments, participating sources may also obtain ATUs from the market, including ATUs bought from other participating sources and general participants in the ERMS that hold ATUs (35 IAC 205.630) and ATUs issued by the Illinois EPA as a consequence of VOM emission reductions from an Emission Reduction Generator or an Intersector Transaction (35 IAC 205.500 and 205.510). During the reconciliation period, sources may also buy ATUs from a secondary reserve of ATUs managed by the Illinois EPA, the Alternative Compliance Market Account (35 IAC 205.710). 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 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 6.4.
  - i. VOM emissions from insignificant units and activities as identified in Section 3 of this permit, in accordance with 35 IAC 205.220;
  - ii. Excess VOM emissions associated with startup, malfunction or breakdown of an emission unit as authorized elsewhere in this permit, in accordance with 35 IAC 205.225;
  - iii. Excess VOM emissions to the extent allowed by a Variance, Consent Order, or Compliance Schedule, in accordance with 35 IAC 205.320(e)(3);
  - iv. Excess VOM emissions that are a consequence of an emergency as approved by the Illinois EPA, pursuant to 35 IAC 205.750; and
  - v. VOM emissions from certain new and modified emission units as addressed by Section 6.7(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 VOM emissions attributable to such major modification during the seasonal allotment period, determined in accordance with the construction permit for such major modification or applicable provisions in Section 7.0 of this permit.

### 6.4 Market Transaction

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

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

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

#### 6.6 Quantification of Seasonal VOM Emissions

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

No exceptions

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

#### 6.7 Annual Account Reporting

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

not yet available, as specified in 35 IAC 205.320(f), the report shall specify seasonal VOM emissions attributable to the new emission unit or the modification of the emission unit.

- b. This report shall be submitted by October 31 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 274 ATUs per seasonal allotment period.
  - ii. This allotment of ATUs reflects the Illinois EPA's determination that the source's baseline emissions were 31.02 tons.
  - iii. The source's allotment reflects 88% of the baseline emissions (12% reduction) except for the VOM emissions from specific emission unit excluded from such reduction, pursuant to 35 IAC 205.405 including units complying with MACT or using BAT, as identified in 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

Not applicable.

In accordance with 35 IAC 205.310(h) and 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.

In accordance with 35 IAC Part 205, for the above referenced emission units, the source is required to hold the appropriate amount of ATU's for these emission units.

- c. Notwithstanding the above, part or all of the above ATUs will not be issued to the source in circumstances as set forth in 35 IAC Part 205, including:
  - i. Transfer of ATUs by the source to another participant or the ACMA, in accordance with 35 IAC 205.630;
  - ii. Deduction of ATUs as a consequence of emission excursion compensation, in accordance with 35 IAC 205.720; and
  - iii. Transfer of ATUs to the ACMA, as a consequence of shutdown of the source, in accordance with 35 IAC 205.410.

#### 6.9 Recordkeeping for ERMS

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

- a. Seasonal component of the Annual Emission Report;
- b. Information on actual VOM emissions, as specified in detail in Sections 5 and 7 of this permit and Condition 6.6(a); 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, if satisfying subsection (a)(1), (a)(2), or (a)(3) prior to May 1, 1999, shall be excluded from the VOM emissions reductions requirements specified in IAC 205.400(c) and (e) as long as such emission units continue to satisfy subsection (a)(1), (a)(2), or (a)(3) [35 IAC 205.405(a)]:
  - i. Emission units that comply with any NESHAP or MACT standard promulgated pursuant to the CAA;
  - ii. Direct combustion emission units designed and used for comfort heating purposes, fuel combustion emission units and internal combustion engines; and

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

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

Thermal Fluid Heater

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

The source has demonstrated in their ERMS application and the Illinois EPA has determined that the following emission units qualifies from further reductions because these emission units use BAT for controlling VOM emissions as indicated above [35 IAC 205.400(b) and (c)]:

None

7.0 UNIT SPECIFIC CONDITIONS

7.1 Unit 01 - Thermal Fluid Heater  
Control 01 - None

7.1.1 Description

Permittee utilizes a natural gas fired thermal fluid heater for space heating. These units have maximum heat input ratings exceeding 10 mmBtu/hr, but are less than 100 mmBtu/hr and fire natural gas with liquefied petroleum gas backup.

7.1.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
01	Thermal Fluid Heater	None

7.1.3 Applicability Provisions and Applicable Regulations

The emission of carbon monoxide (CO) into the atmosphere from any fuel combustion emission unit with actual heat input greater than 2.9 MW (10 mmBtu/hr) shall not exceed 200 ppm, corrected to 50 percent excess air [35 IAC 216.121].

7.1.4 Non-Applicability of Regulations of Concern

- a. All boilers are not subject to 35 IAC 217.141, emissions of NOx from existing fuel combustion emission units in major metropolitan areas, because the actual heat input of each boiler is less than 73.2 MW (250 mmBtu/hr).
- b. Pursuant to 35 IAC 218.303, fuel combustion emission units are not subject to 35 IAC 218.301, Use of Organic Material.

7.1.5 Control Requirements

None

7.1.6 Emission Limitations

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

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

7.1.7 Operating Requirements

None

7.1.8 Inspection Requirements

None

7.1.9 Recordkeeping Requirements

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

- a. Total natural gas usage for the thermal fluid heater (ft<sup>3</sup>/yr);
- b. Total liquefied petroleum gas usage for the thermal fluid heater (gal/yr);
- c. Annual aggregate NO<sub>x</sub>, PM, SO<sub>2</sub>, and VOM emissions from the thermal fluid heater, based on fuel consumption and the applicable emission factors, with supporting calculations.

7.1.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section of noncompliance of the affected thermal fluid heater 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:

Emissions of NO<sub>x</sub>, PM, SO<sub>2</sub>, or VOM from the boilers in excess of the limits specified in Condition 5.5.1 based on the 12 months rolling period.

7.1.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.1.12 Compliance Procedures

- a. Compliance with Condition 7.1.3 is assumed to be achieved by work-practices inherent in operation of natural gas-fired combustion units, so that no compliance procedures are set in this permit addressing this regulation.

b. Compliance with the emission limits shall be based on the recordkeeping requirements in Condition 7.1.9 and the emission factors and formulas listed below:

i. To determine compliance with Condition 5.5.1, emissions from the thermal fluid heater burning natural gas shall be calculated based on the following emission factors:

<u>Pollutant</u>	<u>Emission Factor</u> <u>(lb/10<sup>6</sup> ft<sup>3</sup>)</u>
CO	84
PM	7.6
NO <sub>x</sub>	100
SO <sub>2</sub>	0.6
VOM	5.5

These are the emission factors for uncontrolled natural gas combustion in Small Industrial Boilers (0.3 -<100 mmBtu/hr), Tables 1.4-1, 1.4-2, and 1.4-3, AP-42, Volume I, Fifth Edition, March, 1998. VOM emission factor based on Total Organic Carbon (TOC) factor corrected for 52% methane.

ii. To determine compliance with Condition 5.5.1, emissions from the thermal fluid heater burning liquefied petroleum gas shall be calculated based on the following emission factors:

<u>Pollutant</u>	<u>Emission Factor</u> <u>(lb/10<sup>6</sup> ft<sup>3</sup>)</u>
PM	0.6
NO <sub>x</sub>	19
SO <sub>2</sub>	0.10S
VOM	0.6

These are the emission factors for uncontrolled natural gas combustion in Small Industrial Boilers (10 -<100 mmBtu/hr), Table 1.5-1, AP-42, Volume I, Supplement F, October, 1996. "S" indicates the gr/100 ft<sup>3</sup> of sulfur in gas vapor should be multiplied by the value given.

7.2 Unit 02 - Railcar Loading/Unloading Stations  
Control 02 - Flare

7.2.1 Description

The Permittee utilizes fourteen railcar loading/unloading stations and seven tank truck loading/unloading stations to load finished product and unload raw materials from railcars. One cylinder filling station is utilized to load finished product into cylinders. The stations are controlled by a flare. During normal loading and unloading the operation is a closed system with emissions only from leaking valves and material remaining in hoses. The flare is designed to be used when evacuating unloaded tank cars or trucks which contain VOM materials that are not compatible with the new material to be shipped.

7.2.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
S1 thru S21	Railcar Loading/Unloading Stations 1-12, 19, & 20, Tanker Truck Loading/Unloading Stations 13-18, and Cylinder filling station 21	Flare F-1
Fugitive VOM Emissions	Pumps, Valves, Line Connections, and Cooling Tower	None

7.2.3 Applicability Provisions and Applicable Regulations

- a. An "affected loading, unloading or cylinder filling operation" is an operation in which petroleum gases or liquefied petroleum gases are transferred from one container to another. These affected operations are described in Condition 7.2.2.
- b. No person shall cause or allow the loading of any organic material into any stationary tank having a storage capacity of greater than 946 l (250 gal), unless such tank is equipped with a permanent submerged loading pipe or unless such tank is a pressure tank as described in 35 IAC 218.121(a). [35 IAC 218.122(b)]
- c. The evacuation process is subject to 35 IAC 218 Subpart TT. This rule requires emission capture and control equipment which achieves an overall reduction in uncontrolled VOM emissions of at least 81 percent from each emission unit [35 IAC 218.986(a)]. Note

that two of the materials handled are non-VOM materials (specifically fluorocarbons R-134a and R-152a) and therefore pure fluorocarbons shall not be vented to the flare as the product of combustion is a HAP. However, all VOM emissions must comply with 35 IAC 218 Subpart TT.

d. Malfunction and Breakdown Provisions

In the event of a malfunction or breakdown of the flare, the Permittee is authorized to continue operation of the loading/unloading stations in violation of the applicable requirement of 35 IAC 218.986(a), as necessary to prevent risk of injury to personnel or severe damage to equipment. This authorization is subject to the following requirements:

- i. The Permittee shall repair the damaged feature(s) of the flare or remove the loading/unloading stations from material handling service as soon as practicable. In the interim, the Permittee shall accumulate the VOM emissions in a storage tank for later destruction, recycling, or recovery while the flare is being repaired. This shall be accomplished within one day unless the flare cannot be repaired within one day and the loading/unloading stations cannot be removed from material handling service within one day, and the Permittee obtains an extension for up to three days from the Illinois EPA. The request for such an extension must document that flare is unavailable and specify a schedule of actions the Permittee will take that will assure the feature(s) will be repaired or the VOM emissions will be accumulated in a storage tank for later destruction, recycling, or recovery as soon as possible. The request must also document the risk of injury to personnel or severe damage to equipment that might occur.
- ii. The Permittee shall fulfill the applicable recordkeeping and reporting requirements of Conditions 7.2.9 and 7.2.10.

7.2.4 Non-Applicability of Regulations of Concern

The Permittee is not subject to 35 IAC 218 Subpart Q which requires leak tests for valves because they do not produce any of the chemicals listed in Appendix A of Part 218. However, the Permittee voluntarily conducts an equipment leak inspection in order to assure that VOM emission

increases as a result of construction of new emission units do not qualify as a major new source or major modification.

7.2.5 Operational and Production Limits and Work Practices

- a. The Permittee shall perform a leak detection and repair program for pumps, valves, compressors, and other components on an annual basis in order to qualify for the emission factors cited in Condition 5.9.1. This program shall be performed during the first month of the ozone season as defined by the ERMS program, i.e., May of each year.
- b. The Permittee shall also carry out an inspection and monitoring program to identify leaks in the cooling water system as required by 35 IAC 218.986(d)(3). The requirement for this source is an inspection of each tower at least weekly. If a leak is detected, efforts to identify and locate the leaking components shall be initiated as soon as practicable, but no later than three days after detection.

7.2.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected loading/unloading stations are subject to the following:

- a. Emissions and operation of the flare F-1 shall not exceed the following limits:

NO <sub>x</sub> Emissions		CO Emissions	
<u>(lb/hour)</u>	<u>(Ton/yr)</u>	<u>(lb/hour)</u>	<u>(Ton/yr)</u>
1.7	7.4	9.3	7.7

These limits are based on standard emission factors (0.068 lb/10<sup>6</sup> Btu for NO<sub>x</sub> and 0.37 lb/10<sup>6</sup> Btu for CO), maximum heat input rate (25 mmBtu/hr), and maximum hours of operation (8,760 hr/yr). Compliance with annual limits shall be determined from a running total of 12 months of data. These limitations originate from construction permit 95120246. [T1]

- b. Emissions and operation of twenty-one railcar/tank truck/cylinder loading/unloading stations 1-21 controlled by flare F-1 during the evacuation of residual organic vapors from empty railcars, tank trucks, and cylinders prior to loading with aerosol-grade propellant, and venting of inert gases, non-VOM gases, and light hydrocarbons from the vapor space of railcars and tank trucks prior to unloading of raw

materials or loading of finished products shall not exceed the following limits:

VOM Emissions	
<u>(lb/hour)</u>	<u>(Ton/yr)</u>
10.7	40.8

These limits are based on maximum emission rate (214 lb/hr), maximum control efficiency (95%), and maximum hours of operation (7625 hr/yr). Compliance with annual limits shall be determined from a running total of 12 months of data. This limit does not include emissions from leaks.

The above limitations contain revisions to previously issued Permit 95120246. The source has requested that the Illinois EPA establish conditions in this permit that allow various refinements from the conditions of this aforementioned permit, consistent with the information provided in the CAAPP application. The source has requested these revisions and has addressed the applicability and compliance of Title I of the CAA, specifically 35 IAC Part 203, Major Stationary Sources Construction and Modification and/or 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits continue to ensure that the construction and/or modification addressed in this permit does not constitute a new major source or major modification pursuant to these rules. These limits are the primary enforcement mechanism for the equipment and activities permitted in this permit and the information in the CAAPP application contains the most current and accurate information for the source. Specifically, the tons per year figure is actually reduced slightly but hourly rate is greatly reduced while hours of operation are increased. [T1R].

- c. Emissions and operation of railcar loading/unloading stations 19 and 20 controlled by flare F-1 during the evacuation of residual organic vapors from empty railcars prior to loading with aerosol-grade propellant, and venting of inert gases, non-VOM gases, and light hydrocarbons from the vapor space of railcars prior to unloading of raw materials or loading of finished products shall not exceed the following limits:

VOM Emissions	
<u>(lb/hour)</u>	<u>(Ton/yr)</u>
10.7	24.9

These limits are based on maximum emission rate (214 lb/hr), maximum control efficiency (95%), and maximum hours of operation (4,650 hr/yr for stations 19 and 20). Compliance with annual limits shall be determined from a running total of 12 months of data. This limit does include emissions from leaks.

The above limitation was established pursuant to 35 IAC Part 203. This limit ensures that the construction/modification addressed in Construction Permit 95120246 does not constitute a new major source or major modification pursuant to 35 IAC Part 203. [T1]

#### 7.2.7 Operating Requirements [T1]

- a. Repair any component from which a leak of VOL can be observed. The repair shall be completed as soon as practicable but no later than 15 days after the leak is found, unless the leaking component cannot be repaired until the next process unit shutdown, in which case the leaking component must be repaired before the unit is restarted.
- b. The flare shall be operated with no visible emissions as determined by the method specified in 40 CFR 60.18(f)(1).
- c. The flare shall be operated with a flame present at all times as determined by the method specified in 40 CFR 60.18(f)(2). The Permittee employs a plasma resonance flame detector.
- d. The flare shall be used only with the net heating value of the gas being combusted being 300 Btu/scf or greater as determined by the method specified in 40 CFR 60.18(f)(3).
- e. The flare shall be operated with an exit velocity as determined by the method specified in 40 CFR 60.18(f)(4).
- f. The Permittee shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs.
- g. The flare shall be operated at all times when VOM emissions may be vented to it, except as allowed by Condition 7.2.3(d).

These operating requirements (a through e) originate from Construction Permit 95120246.

Note that since the units controlled by the flare are not subject to NSPS, only the reference technology for operation of a flare that assures the destruction efficiency required by Condition 7.2.6 is being cited and not compliance with any specific NSPS. The above requirements are from Subpart A, General Provisions.

7.2.8 Inspection Requirements

None

7.2.9 Recordkeeping Requirements

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

- a. The types of materials unloaded at each of the loading/unloading stations on a monthly basis;
- b. The types of material loaded (into delivery vessels) at each of the loading/unloading stations on a monthly basis;
- c. The number of vessels unloaded at each of the loading/unloading stations on a monthly basis;
- d. The number of vessels loaded (material into delivery vessels) at each of the loading/unloading stations on a monthly basis;
- e. The number of cylinders filled (material into cylinders) at each of the loading/unloading stations on a monthly basis;
- f. Records of aggregate monthly VOM emissions from the affected loading/unloading stations shall be maintained, based on monthly materials loaded, unloaded, and flare operation (hours/month), with supporting calculations;
- g. Records shall be maintained for natural gas combusted in the flare on a monthly basis as follows:
  - i. Records of usage of natural gas (therms/month); and
  - ii. Records of aggregate monthly emissions based on monthly natural gas usage and applicable emission factors with supporting calculations.

h. Records for Malfunctions and Breakdowns of flare

The Permittee shall maintain records, pursuant to 35 IAC 201.263, of continued operation of a loading/unloading stations subject to 35 IAC 218.986(a) during malfunctions and breakdown of the control features of the flare, which as a minimum, shall include:

- i. Date and duration of malfunction or breakdown;
  - ii. A detailed explanation of the malfunction or breakdown;
  - iii. An explanation why the damaged feature(s) could not be immediately repaired or the loading/unloading stations removed from service without risk of injury to personnel or severe damage to equipment;
  - iv. The measures used to reduce the quantity of emissions and the duration of the event, such as accumulation in a storage tank;
  - v. The steps taken to prevent similar malfunctions or breakdowns or reduce their frequency and severity; and
  - vi. The amount of release above typical emissions during malfunction/breakdown.
  - vii. The risk of injury to personnel or severe damage to equipment that might have occurred.
- i. Records for cooling water tower inspection, monitoring and repair. [35 IAC 218.986(d)]
- i. Copy of monitoring program;
  - ii. Records of inspection and monitoring activity;
  - iii. Records of each leak identified in such tower, with date, time and nature of observation or measured level of parameter;
  - iv. Records of activity to identify leaking components, with date initiated, summary of components, inspected with dates, and method of inspection and observations;
  - v. Records of activity to remove a leaking component from service or repair a leaking component, with date initiated and completed, description of actions taken and the basis for

determining the leak in such tower has been eliminated. If the leaking component is not identified, repaired or eliminated within 30 days of initial identification of a leak in such tower, this report shall include specific reasons why the leak could not be eliminated sooner including all other intervening periods when the process unit was out of service, actions taken to minimize VOM losses prior to elimination of the leak and any actions taken to prevent the recurrence of a leak of this type; and

- vi. For any leak which cannot be readily repaired within one hour after detection, the following records, as set forth below, shall be kept. These records shall be maintained by the Permittee for a minimum of two years after the date on which they are made. Copies of the records shall be made available to the Illinois EPA or USEPA upon verbal or written request. [35 IAC 218.986(e)(2)]
  - A. The name and identification of the leaking component;
  - B. The date and time the leak is detected;
  - C. The action taken to repair the leak; and
  - D. The date and time the leak is repaired.
- j. The Permittee shall collect and record all of the following information each day and maintain the information at the source for a period of three years. [35 IAC 218.991(a)(2)]
  - i. Control device monitoring data;
  - ii. A log of operating time for the capture system, control device and monitoring equipment, and the associated emission source; and
  - iii. A maintenance log for the capture system, control device and monitoring equipment detailing all routine and non-routine maintenance performed including dates and duration of any outages.

#### 7.2.10 Reporting Requirements

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

loading/unloading stations 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. Reporting of Malfunctions and Breakdowns for flare

The Permittee shall provide the following notification and reports to the Illinois EPA, Compliance Section and Regional Field Office, pursuant to 35 IAC 201.263, concerning continued operation of a loading/unloading stations subject to Condition 7.1.3 during malfunction or breakdown of the control features of the loading/unloading station.

- i. The Permittee shall notify the Illinois EPA's regional office by telephone as soon as possible during normal working hours, but no later than three (3) days, upon the occurrence of noncompliance due to malfunction, or breakdown.
- ii. Upon achievement of compliance, the Permittee shall give a written follow-up notice to the Illinois EPA, Compliance Section and Regional Field Office, providing a detailed explanation of the event, an explanation why continued operation of the loading/unloading station was necessary, the length of time during which operation continued under such conditions, the measures taken by the Permittee to minimize and correct deficiencies with chronology, and when the repairs were completed or when the loading/unloading stations were taken out of service.
- iii. If compliance is not achieved within 5 working days of the occurrence, the Permittee shall submit interim status reports to the Illinois EPA, Compliance Section and Regional Field Office, within 5 days of the occurrence and every 14 days thereafter, until compliance is achieved. These interim reports shall provide a brief explanation of the nature of the malfunction or breakdown, corrective actions accomplished to date, actions anticipated to occur with schedule, and the expected date on which repairs will be complete or the loading/unloading stations will be taken out of service.

- b. The Permittee shall submit the following annual report for cooling water inspection and monitoring containing the following information. This is not related to noncompliance reporting as specified previously.

The owner or operator of a non-contact process water cooling tower shall submit an annual report to the Illinois EPA which provides:

- i. The number of leaks identified in each cooling tower;
- ii. A general description of activity to repair or eliminate leaks which were identified;
- iii. Identification of each leak which was not repaired in 30 days from the date of identification of a leak in such a tower, with description of the leaks, explanation why the leak was not repaired in 30 days; and
- iv. Identification of any periods when required inspection and monitoring activities were not carried out.

7.2.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.2.12 Compliance Procedures

- a. To determine compliance with Conditions 5.5.1 emissions from the affected loading/unloading stations shall be calculated based on the following:

$$\text{Uncontrolled Vessel Loading VOM Emissions (lb / mo)} = \frac{198 \text{ lb VOM Per Vessel Loaded}}{\text{Vessels Loaded Per Month}} \times$$

$$\text{Uncontrolled Vessel Unloading VOM Emissions (lb / mo)} = \frac{156 \text{ lb VOM Per Vessel Unloaded}}{\text{Vessels Unloaded Per Month}} \times$$

$$\text{Uncontrolled Cylinder Filling VOM Emissions (lb / mo)} = \frac{3.10 \text{ lb VOM Per Cylinder Filled}}{\text{Cylinders Filled Per Month}} \times$$

$$\text{Total Controlled VOM Emissions (lb / hr)} = \sum (\text{Vessel Unloading VOM Emissions} + \text{Vessel Loading VOM Emissions} + \text{Cylinder Filling VOM Emissions}) \times (1 - \text{Control Efficiency of Flare (95\%)})$$

- b. Leaks from equipment shall be calculated using emission factors in Protocol for Equipment Leak Emission Estimates, USEPA EPA-453-R-95-017, November, 1995, based on screening range approach. Emissions from the cooling tower, included in the fugitive program, is based on the AP-42 emission factor of 6 lb VOM per 1,000 gallons of cooling water circulated.

7.2.13 Compliance Schedules

- a. The Permittee was sent Violation Notice A-2000-00210 by the Illinois EPA for violation of 35 IAC 218 Subpart TT and 40 CFR 52.21 and/or 35 IAC Part 203. Therefore, the permit shield in Section 8.1 does not shield the Permittee from possible enforcement actions initiated by either USEPA or the Illinois EPA regarding the tank truck/tank car evacuation process. Compliance with the terms of this permit does not serve as proof of compliance for uncontrolled evacuation process operated at this location. The Permittee shall, if needed, apply for revision of this permit to address the resolution of any such outstanding issue (e.g., include a new compliance schedule, identify appropriate applicable requirements, establish new requirements, and revise the ERMS baseline).
- b. The tank truck/tank car evacuation process shall comply with the following schedule of compliance to address compliance with the alleged violations of 35 IAC Part 218, Subpart TT, 40 CFR 52.21 and/or 35 IAC Part 203:

Milestone	Timing
The Permittee shall achieve full compliance with all requirements of any determination made relative to the above-referenced Violation Notice (VN)	No later than any schedule established pursuant to any determination made relative to the above-referenced VN
The Permittee shall submit a revised compliance plan to achieve full compliance with all requirements of 35 IAC Part 218, Subpart TT and 40 CFR 52.21 and/or 35 IAC Part 203	No later than any schedule established pursuant to any determination made relative to the above-referenced VN

- c. Submittal of Progress Reports

A Progress Report shall be submitted every six months, beginning six months from the date of

issuance of this permit. The Progress Report shall contain at least the following:

- i. The required timeframe for achieving the milestones in the schedules for compliance, and actual dates when such milestones were achieved.
- ii. An explanation of why any required timeframe in the schedule of compliance was not met, and any preventive or corrective measures adopted.

## 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 May 1, 2000 (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.

### 9.2 General Obligations of Permittee

#### 9.2.1 Duty to Comply

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

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

#### 9.2.2 Duty to Maintain Equipment

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

### 9.2.3 Duty to Cease Operation

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

### 9.2.4 Disposal Operations

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

### 9.2.5 Duty to Pay Fees

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

## 9.3 Obligation to Allow Illinois EPA Surveillance

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

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

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

#### 9.4 Obligation to Comply With Other Requirements

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

#### 9.5 Liability

##### 9.5.1 Title

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

##### 9.5.2 Liability of Permittee

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

##### 9.5.3 Structural Stability

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

##### 9.5.4 Illinois EPA Liability

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

##### 9.5.5 Property Rights

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

## 9.6 Recordkeeping

### 9.6.1 Control Equipment Maintenance Records

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

### 9.6.2 Records of Changes in Operation

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

### 9.6.3 Retention of Records

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

## 9.7 Annual Emissions Report

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

## 9.8 Requirements for Compliance Certification

Pursuant to Section 39.5(7)(p)(v) of the Act, the Permittee shall submit compliance certifications annually or more frequently as specified in the applicable requirement or by permit condition.

- a. The 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 - 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: \_\_\_\_\_

DGP:psj