

**AIR EMISSION PERMIT NO. 12300069-004
Administrative Amendment
IS ISSUED TO**

NuStar Energy L.P.

NUSTAR - ROSEVILLE PRODUCTS TERMINAL
2288 West County Road C
Roseville, Ramsey County, MN 55113

The emission units, control equipment, and emission stacks at the stationary source authorized in this permit amendment are as described in the Permit Applications Table.

This permit amendment supersedes permit number 12300069-003 and authorizes the Permittee to operate the stationary source at the address listed above unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. R. 7007.1150 to 7007.1500., and any additions or changes to conditions incorporated into Minnesota's State Implementation Plan (SIP) under 40 CFR § 52.1220, designated "Title I: SIP for VOC" must go through the federal SIP approval process before becoming effective. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

Unless otherwise indicated, all the Minnesota rules cited as the origin of the permit terms are incorporated into the SIP under 40 CFR § 52.1220 and as such as are enforceable by U.S. Environmental Protection Agency (EPA) Administrator or citizens under the Clean Air Act.

Permit Type: State; Limits to Avoid Pt 70/Limits to avoid NSR

Total Facility Permit Issue Date: December 19, 2006

Administrative Amendment Issue Date: September 23, 2008

Expiration Date: Permit does not expire.

All Title I Conditions do not expire.

Don Smith, P.E. Manager
Air Quality Permits Section
Industrial Division

for Brad Moore
Commissioner
Minnesota Pollution Control Agency

Permit Applications Table

Permit Type	Application Date	Permit Action
Total Facility Permit	06/15/1996 & 06/01/2006	003
Administrative Amendment	05/21/2007	004
Administrative Amendment	08/07/2008	004

TABLE OF CONTENTS

Notice to the Permittee

Permit Shield

Facility Description

Table A: Limits and Other Requirements

Table B: Submittals

Appendices:

Appendix A: not used in this permit

Appendix B: Emission Screening Equation

Appendix C: Insignificant Activities and Applicable Requirements

NOTICE TO THE PERMITTEE:

Your stationary source may be subject to the requirements of the Minnesota Pollution Control Agency's (MPCA) solid waste, hazardous waste, and water quality programs. If you wish to obtain information on these programs, including information on obtaining any required permits, please contact the MPCA general information number at:

Metro Area	651-296-6300
Outside Metro Area	1-800-657-3864
TTY	651-282-5332

The rules governing these programs are contained in Minn. R. chs. 7000-7105. Written questions may be sent to: Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, Minnesota 55155-4194.

Questions about this air emission permit or about air quality requirements can also be directed to the telephone numbers and address listed above.

PERMIT SHIELD:

Subject to the limitations in Minn. R. 7007.1800, compliance with the conditions of this permit shall be deemed compliance with the specific provision of the applicable requirement identified in the permit as the basis of each condition. Subject to the limitations of Minn. R. 7007.1800 and 7017.0100, subp. 2, 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.

FACILITY DESCRIPTION:

The Roseville terminal is a 60 acre bulk terminal for petroleum products. The facility consists of 11 main product storage tanks, a Vapor Combustion Unit (VCU), and a truck loading rack. The terminal began operation in 1947. The terminal receives petroleum products through a pipeline distribution network consisting of three pipelines. Petroleum products are shipped out to other terminals through one of the pipelines or to retailers and bulk stations through five tank truck loading spots. Product transfer from refineries to terminal and between terminals occurs on a continuous basis. The primary products handled are unleaded gasoline, No. 1 and No. 2 fuel oils, ethanol, and jet fuels. Volatile organic compound (VOC) emissions result primarily from loading trucks and from storage tank losses.

PERMIT ACTION 004 (Administrative Amendment)

This permit action will change the name of the parent company of the facility to NuStar Energy L.P. (formerly Valero L.P.). The facility's name was also changed to NuStar - Roseville Products Terminal (formerly Kaneb Pipeline Operating Partnership - Roseville Products Terminal). Also there is a 365 day extension of a performance test requirement for CE001 to test at worst case conditions for the newly installed equipment. This test was conducted on June 4, 2008. The VCU (CE001) at the facility is subject to 40 CFR pt. 60, subp. XX. The VCU replaced the Vapor Recovery Unit as a control equipment upgrade for the facility. The facility also submitted an initial notification of compliance that will incorporate 40 CFR pt. 63, subp. BBBBBB into the permit.

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-1**

09/23/08

Facility Name: NuStar - Roseville Products Terminal

Permit Number: 12300069 - 004

Table A contains limits and other requirements with which your facility must comply. The limits are located in the first column of the table (What To do). The limits can be emission limits or operational limits. This column also contains the actions that you must take and the records you must keep to show that you are complying with the limits. The second column of Table A (Why to do it) lists the regulatory basis for these limits. Appendices included as conditions of your permit are listed in Table A under total facility requirements.

Subject Item:**Total Facility**

What to do	Why to do it
NATIONAL EMISSION STANDARDS FOR GASOLINE DISTRIBUTION FACILITIES	hdr
A bulk gasoline terminal is not subject to the provisions of 40 CFR Section 63, Subpart R, when the owner or operator has documented and recorded that the result, $E\{T\}$, of the following equation is less than 1, and complies with requirements in 40 CFR Section 63.420(c), (d), (e), and (f): $E\{T\} = CF[0.59(T\{F\})(1-CE)+0.17(T\{E\})+0.08(T\{ES\})+0.038(T\{I\})+8.5E-6(C)+KQ]+0.04(OE)$ See Appendix B for details on this calculation.	40 CFR Section 63.420(a)(1); Minn. R. 7011.7180
The owner or operator shall operate the facility such that none of the facility parameters used to calculate $E\{T\}$ under 40 CFR Section 63.420(a)(1) is exceeded in any rolling 30 day period.	40 CFR Section 63.420(d)(1); Minn. R. 7011.7180
(Distillate Loading) Process Throughput: less than or equal to 365257 gallons/day using 30-day Rolling Average	40 CFR Section 63.420(d)(1); Minn. R. 7011.7180
(Gasoline) Process Throughput: less than 2298660 gallons/day using 30-day Rolling Average	40 CFR Section 63.420(d)(1); Minn. R. 7011.7180
By the 7th day of each month, the Permittee shall have calculated the total quantity of distillate throughput and the 30-day rolling average, for each day of the previous calendar month.	Minn. R. 7007.0800, subp. 5
By the 7th day of each month, the Permittee shall have calculated the total quantity of gasoline throughput and the 30-day rolling average, for each day of the previous calendar month.	Minn. R. 7007.0800, subp. 5
Maintain records of the values of the following parameters used in the equation for $E\{T\}$. These numbers should not exceed the quantities used in the equation, shown in Appendix B. $T\{F\}$ = number of fixed roof tanks in gasoline service $T\{E\}$ = number of floating roof tanks in gasoline service, which have only primary roof seals $T\{ES\}$ = number of floating roof tanks in gasoline service, which have both primary and secondary roof seals $T\{I\}$ = number of internal floating roof tanks in gasoline service C = number of pumps, valves, connectors, loadarm valves, and open ended lines in gasoline service	Minn. R. 7007.0800, subp. 5
Maintain the record of the $E\{T\}$ calculation in 40 CFR Section 63.420(a)(1), including methods, procedures, and assumptions supporting the calculation that $E\{T\} < 0.5$.	40 CFR Section 63.420(d)(2); 40 CFR Section 63.428(j)(2); Minn. R. 7011.7180
At any time after December 16, 1996, and prior to any parameter being exceeded, the owner or operator may notify the Administrator of modifications to the facility parameters. Each such notification shall document any expected HAP emission change resulting from the change in parameter.	40 CFR Section 63.420(d)(2); 40 CFR Section 63.428(j)(3); Minn. R. 7011.7180
OPERATIONAL REQUIREMENTS	hdr
Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.	Minn. R. 7011.0020
Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated, unless otherwise noted in Table A.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-2**

09/23/08

Facility Name: NuStar - Roseville Products Terminal

Permit Number: 12300069 - 004

Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. At a minimum, the O & M plan shall identify all air pollution control equipment and control practices and shall include a preventative maintenance program for the equipment and practices, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment and practices to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment and practices, and the records kept to demonstrate plan implementation.	Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)
Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate.	Minn. R. 7019.1000, subp. 4
Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150.	Minn. R. 7011.0150
Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7030.0010 - 7030.0080
Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).	Minn. R. 7007.0800, subp. 9(A)
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
PERFORMANCE TESTING	hdr
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A, B, and/or C.	Minn. R. ch. 7017
Performance Test Notifications and Submittals: Performance Tests are due as outlined in Tables A and B of the permit. See Table B for additional testing requirements. Performance Test Notification (written): due 30 days before each Performance Test Performance Test Plan: due 30 days before each Performance Test Performance Test Pre-test Meeting: due 7 days before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy: due 105 days after each Performance Test The Notification, Test Plan, and Test Report may be submitted in alternative format as allowed by Minn. R. 7017.2018.	Minn. Rs. 7017.2030, subp. 1-4, 7017.2018 and Minn. R. 7017.2035, subp. 1-2
Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as specified by Minn. R. 7017.2025 following formal review of a subsequent performance test on the same unit and completion of permit reopening and reissuance. If limits serve to cause more stringent operating conditions, resulting changes to facility operation need to be made immediately. If limits serve to relax current operating conditions, resulting changes to facility operation must not be made prior to issuance of permit amendment with new limit incorporated.	Minn. R. 7017.2025
MONITORING REQUIREMENTS	hdr
Monitoring Equipment Calibration: Annually calibrate all required monitoring equipment, including thermocouples and gasoline flow meters. (Any requirements applying to continuous emission monitors are listed separately in this permit.)	Minn. R. 7007.0800, subp. 4(D)
Operation of Monitoring Equipment: Unless otherwise noted in Tables A, B, and/or C, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.	Minn. R. 7007.0800, subp. 4(D)
RECORDKEEPING	hdr
Recordkeeping: Retain all records at the stationary source for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).	Minn. R. 7007.0800, subp. 5(C)

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-3**

09/23/08

Facility Name: NuStar - Roseville Products Terminal

Permit Number: 12300069 - 004

Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007. 1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350 subp. 2), including records of the emissions resulting from those changes.	Minn. R. 7007. 0800, subp. 5(B)
When the Permittee determines that no permit amendment or notification is required prior to making a change, the Permittee must retain records of all calculations required under Minn. R. 7007.1200. For expiring permits, these records shall be kept for a period of five years from the date the change was made or until permit reissuance, whichever is longer. For nonexpiring permits, these records shall be kept for a period of five years from the date that the change was made. The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the stationary source or office of the stationary source for all other years. The records may be maintained in either electronic or paper format.	Minn. R. 7007.1200, subp. 4
REPORTING/SUBMITTALS	hdr
Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3. At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.	Minn. R. 7019.1000, subp. 3
Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2. At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over.	Minn. R. 7019.1000, subp. 2
Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment.	Minn. R. 7019.1000, subp. 1
Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description: 1. the cause of the deviation; 2. the exact dates of the period of the deviation, if the deviation has been corrected; 3. whether or not the deviation has been corrected; 4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.	Minn. R. 7019.1000, subp. 1
Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.	Minn. R. 7007.1150 through Minn. R. 7007.1500
Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H).	Minn. R. 7007.1400, subp. 1(H)
Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance. To be submitted on a form approved by the Commissioner.	Minn. R. 7019.3000 through Minn. R. 7019.3100
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 through Minn. R. 7002.0095

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-4**

09/23/08

Facility Name: NuStar - Roseville Products Terminal

Permit Number: 12300069 - 004

Subject Item: GP 001 Soil Vapor Extraction Systems**Associated Items:** EU 002 Soil Vapor Extraction 1

EU 003 Soil Vapor Extraction 2

What to do	Why to do it
EMISSION LIMITS	hdr
THC (Total Hydrocarbons): less than or equal to 20 tons/year using 12-month Rolling Sum , calculated monthly (after resumption of operation) using the following formula: Ton of Pollutant = $A \times B \times C \times 1.869 \times 10E-09 [(liter * min * ton)/(ug*ft^3*hr)]$, where: A = Average pollutant concentration (ug/l) determined from the results of Air Sample Analysis Method TO-3 for the current and previous month B = Volumetric flow rate (cfm) of exhaust stream measured for current month C = Total number of SVE system operating hours since the previous emission rate determination.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
MONITORING REQUIREMENTS	hdr
Following resumption of operation of either unit listed in GP001, continuously monitor the hours of operation of both units.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
Sample Analysis: due before end of each calendar month following Resuming Operation. Sample the SVE system emissions for benzene, toluene, xylene, and total hydrocarbons using Air Sample Analysis Method TO-3. A minimum of two samples, taken consecutively, shall be analyzed each month.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-5**

09/23/08

Facility Name: NuStar - Roseville Products Terminal

Permit Number: 12300069 - 004

Subject Item: GP 003 Equipment Subject to 40 CFR pt. 63, subp. BBBBBB**Associated Items:** EU 001 Truck Loading Rack

FS 001 VOC/HAP Service Valves, Flanges, and Pumps

TK 002 Petroleum Products

TK 003 Petroleum Products

TK 004 Petroleum Products

TK 007 Petroleum Products

TK 008 Petroleum Products

TK 011 Petroleum Products

TK 012 Ethanol

What to do	Why to do it
REQUIREMENTS	hdr
If the facility is an existing affected source, the Permittee must comply with the standards in this subpart no later than January 10, 2011.	40 CFR Section 63.11083(b)
If the Permittee owns or operates a gasoline storage tank with a capacity of greater than or equal to 75 cubic meters, then they must: (1) Equip each internal floating roof gasoline storage tank according to the requirements in Section 60.112b(a)(1) of this chapter, except for the secondary seal requirements under Section 60.112b(a)(1)(ii)(B) and the requirements in Section 60.112b(a)(1)(iv) through (ix) of this chapter; and (2) Equip each external floating roof gasoline storage tank according to the requirements in Section 60.112b(a)(2) of this chapter, except that the requirements of Section 60.112b(a)(2)(ii) of this chapter shall only be required if such storage tank does not currently meet the requirements of Section 60.112b(a)(2)(i) of this chapter	40 CFR Section 63.11087(a) and 40 CFR 60.112(b)
The Permittee must comply with the requirements of this subpart by the applicable dates specified in Section 63.11083, except that storage vessels equipped with floating roofs and not meeting the requirements of paragraph (a) of this section must be in compliance at the first degassing and cleaning activity after January 10, 2011 or by January 10, 2018, whichever is first.	40 CFR Section 63.11087(b)
If the Permittee owns or operates a gasoline loading rack(s) at a bulk gasoline terminal with gasoline throughput of 250,000 gal/day or greater the Permittee must: (a) Equip your loading rack(s) with a vapor collection system designed to collect the TOC vapors displaced from cargo tanks during product loading; and (b) Reduce emissions of TOC to less than or equal to 80 mg/l of gasoline loaded into gasoline cargo tanks at the loading rack; and (c) Design and operate the vapor collection system to prevent any TOC vapors collected at one loading rack from passing to another loading rack; and (d) Limit the loading of gasoline into gasoline cargo tanks that are vapor tight using the procedures specified in 40 CFR Section 60.502(e) through (j) of this chapter. For the purposes of this section, the term "tank truck" as used in 40 CFR Section 60.502(e) through (j) of this chapter means "cargo tank" as defined in 40 CFR Section 63.11100.	40 CFR Section 63.11088(a)
This facility meets the definition of a bulk gasoline terminal, a gasoline storage and distribution facility that receives gasoline by pipeline, ship or barge, or cargo tank and has a gasoline throughput of 20,000 gallons per day or greater. Gasoline throughput shall be the maximum calculated design throughput as may be limited by compliance with an enforceable condition under Federal, State, or local law and discoverable by the Administrator and any other person, as defined at 40 CFR Section 63.11100. The Permittee shall comply with the following standards in 40 CFR pt. 63 subp. BBBBBB no later than January 10, 2011.	40 CFR Sections 63.11089(e) and 63.11083(b)
Monthly Leak Inspections: The Permittee shall perform a monthly leak inspection of all equipment in gasoline service, as defined in 40 CFR Section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. 40 CFR Section 63.11100 defines in gasoline service as a piece of equipment used in a system that transfers gasoline or gasoline vapors.	40 CFR Sections 63.11089(a) and 63.11100
Leak Inspection Recordkeeping: A log book shall be used and shall be signed by the Permittee at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility.	40 CFR Section 63.11089(b)

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-6**

09/23/08

Facility Name: NuStar - Roseville Products Terminal

Permit Number: 12300069 - 004

Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak, except as provided in the requirement listed below (referring to 40 CFR Section 63.11089(d)).	40 CFR Section 63.11089(c)
Delay of Equipment Leak Repair: Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The Permittee shall provide in the semiannual Excess Emissions Report specified in 40 CFR Section 63.11095(b), the reason(s) why the repair was not feasible and the date each repair was completed.	40 CFR Section 63.11089(d)
TESTING AND MONITORING	hdr
For performance tests performed after the initial test, the Permittee shall document the reasons for any change in the operating parameter value since the previous performance test.	40 CFR Section 63.11092(c)
The Permittee shall: (1) Operate the vapor processing system in a manner not to exceed or not to go below, as appropriate, the operating parameter value for the parameters described in paragraph (b)(1) of this section. (2) In cases where an alternative parameter pursuant to paragraph (b)(1)(iv) or paragraph (b)(5)(i) of this section is approved, each owner or operator shall operate the vapor processing system in a manner not to exceed or not to go below, as appropriate, the alternative operating parameter value. (3) Operation of the vapor processing system in a manner exceeding or going below the operating parameter value, as appropriate, shall constitute a violation of the emission standard in Section 63.11088(a), except as specified in paragraph (d)(4) of this section.	40 CFR Section 63.11092(d)
(4) For the monitoring and inspection, as required under paragraphs (b)(1)(i)(B)(2) and (b)(1)(iii)(B)(2) of this section, malfunctions that are discovered shall not constitute a violation of the emission standard in Section 63.11088(a) if corrective actions as described in the monitoring and inspection plan are followed. The Permittee must: (i) Initiate corrective action to determine the cause of the problem within 1 hour; (ii) Initiate corrective action to fix the problem within 24 hours; (iii) Complete all corrective actions needed to fix the problem as soon as practicable consistent with good air pollution control practices for minimizing emissions; (iv) Minimize periods of start-up, shutdown, or malfunction; and (v) Take any necessary corrective actions to restore normal operation and prevent the recurrence of the cause of the problem.	40 CFR Section 63.11092(d) (continued)
If your gasoline storage tank is equipped with an internal floating roof, you must perform inspections of the floating roof system according to the requirements of Section 60.113b(a)	40 CFR Sections 63.11092(e) and 60.113(b)(a)
RECORDKEEPING	hdr
The Permittee shall keep records as specified in Section 60.115b of this chapter if you are complying with options 2(a), 2(b), or 2(c) in Table 1 to this subpart, except records shall be kept for at least 5 years.	40 CFR Section 63.11094(a)
The Permittee shall keep records of the test results for each gasoline cargo tank loading at the facility as specified below: (1) Annual certification testing performed under 40 CFR Section 63.11092(f)(1) and periodic railcar bubble leak testing performed under 40 CFR Section 63.11092(f)(2).	40 CFR Section 63.11094(b)
(2) The documentation file shall be kept up-to-date for each gasoline cargo tank loading at the facility. The documentation for each test shall include, as a minimum, the following information: (i) Name of test: Annual Certification Test <input type="checkbox"/> Method 27 or Periodic Railcar Bubble Leak Test Procedure. (ii) Cargo tank owner's name and address. (iii) Cargo tank identification number. (iv) Test location and date. (v) Tester name and signature. (vi) Witnessing inspector, if any: Name, signature, and affiliation. (vii) Vapor tightness repair: Nature of repair work and when performed in relation to vapor tightness testing (viii) Test results: Test pressure; pressure or vacuum change, mm of water; time period of test; number of leaks found with instrument; and leak definition. (3) If you are complying with the alternative requirements in Section 63.11088(b), you must keep records documenting that you have verified the vapor tightness testing according to the requirements of the Administrator	40 CFR Section 63.11094(b) (continued)

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-7**

09/23/08

Facility Name: NuStar - Roseville Products Terminal

Permit Number: 12300069 - 004

The Permittee shall prepare and maintain a record describing the types, identification numbers, and locations of all equipment in gasoline service. If the Permittee elects to implement an instrument program under 40 CFR Section 63.11089, the record shall contain a full description of the program.	40 CFR Section 63.11094(d)
<p>The Permittee shall record in the log book for each leak that is detected the information specified below:</p> <p>(1) The equipment type and identification number.</p> <p>(2) The nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell).</p> <p>(3) The date the leak was detected and the date of each attempt to repair the leak.</p> <p>(4) Repair methods applied in each attempt to repair the leak.</p> <p>(5) A statement of: Repair Delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak.</p> <p>(6) The expected date of successful repair of the leak if the leak is not repaired within 15 days.</p> <p>(7) The date of successful repair of the leak.</p>	40 CFR Section 63.11094(e)
<p>The Permittee shall:</p> <p>(1) Keep an up-to-date, readily accessible record of the continuous monitoring data required under Section 63.11092(b) or 63.11092(e). This record shall indicate the time intervals during which loadings of gasoline cargo tanks have occurred or, alternatively, shall record the operating parameter data only during such loadings. The date and time of day shall also be indicated at reasonable intervals on this record.</p> <p>(2) Record and report simultaneously with the Notification of Compliance Status required under Section 63.11093(b):</p> <p>(i) All data and calculations, engineering assessments, and manufacturer's recommendations used in determining the operating parameter value under Section 63.11092(b) or 63.11092(e); and</p> <p>(ii) The following information when using a flare under provisions of Section 63.11(b) to comply with Section 63.11087(a):</p> <p>(A) Flare design (i.e., steam-assisted, air-assisted, or non-assisted); and</p>	40 CFR Section 63.11094(f)
<p>(B) All visible emissions (VE) readings, heat content determinations, flow rate measurements, and exit velocity determinations made during the compliance determination required under Section 63.11092(e)(3).</p> <p>(3) Keep an up-to-date, readily accessible copy of the monitoring and inspection plan required under Section 63.11092(b)(1)(i)(B)(2) or Section 63.11092(b)(1)(iii)(B)(2).</p> <p>(4) Keep an up-to-date, readily accessible record of all system malfunctions, as specified in Section 63.11092(b)(1)(i)(B)(2)(v) or Section 63.11092(b)(1)(iii)(B)(2)(v).</p> <p>(5) If a Permittee requests approval to use a vapor processing system or monitor an operating parameter other than those specified in Section 63.11092(b), the Permittee shall submit a description of planned reporting and recordkeeping procedures.</p>	40 CFR Section 63.11094(f) (continued)
REPORTING	hdr
<p>The Permittee shall include in a semiannual compliance report to the Administrator the following information, as applicable:</p> <p>(1) For storage vessels, if you are complying with option 2(b) in Table 1 to this subpart, the information specified in Section 60.115b(a), Section 60.115b(b), or Section 60.115b(c) of this chapter, depending upon the control equipment installed.</p> <p>(2) For loading racks, each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility.</p> <p>(3) For equipment leak inspections, the number of equipment leaks not repaired within 15 days after detection.</p>	40 CFR Section 63.11095(a)
<p>The Permittee shall submit an excess emissions report to the Administrator at the time the semiannual compliance report is submitted. Excess emissions events under this subpart, and the information to be included in the excess emissions report:</p> <p>(1) Each instance of a non-vapor-tight gasoline cargo tank loading at the facility in which the Permittee failed to take steps to assure that such cargo tank would not be reloaded at the facility before vapor tightness documentation for that cargo tank was obtained.</p> <p>(2) Each reloading of a non-vapor-tight gasoline cargo tank at the facility before vapor tightness documentation for that cargo tank is obtained by the facility in accordance with Section 63.11094(b).</p>	40 CFR Section 63.11095(b)

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-8**

09/23/08

Facility Name: NuStar - Roseville Products Terminal

Permit Number: 12300069 - 004

<p>(3) Each exceedance or failure to maintain, as appropriate, the monitored operating parameter value determined under Section 63.11092(b). The report shall include the monitoring data for the days on which exceedances or failures to maintain have occurred, and a description and timing of the steps taken to repair or perform maintenance on the vapor collection and processing systems or the CMS.</p> <p>(4) Each instance in which malfunctions discovered during the monitoring and inspections required under Section 63.11092(b)(1)(i)(B)(2) and (b)(1)(iii)(B)(2) were not resolved according to the necessary corrective actions described in the monitoring and inspection plan. The report shall include a description of the malfunction and the timing of the steps taken to correct the malfunction.</p>	40 CFR Section 63.11095(b) (continued)
<p>(5) For each occurrence of an equipment leak for which no repair attempt was made within 5 days or for which repair was not completed within 15 days after detection:</p> <p>(i) The date on which the leak was detected;</p> <p>(ii) The date of each attempt to repair the leak;</p> <p>(iii) The reasons for the delay of repair; and</p> <p>(iv) The date of successful repair.</p>	40 CFR Section 63.11095(b) (continued)
<p>The Permittee shall submit a semiannual excess emissions report (EER) with the Semiannual Deviations Report listed in Table B of this permit, only for a 6-month period during which an excess emission event (as described at 40 CFR Section 63.11095(a)(3) and (b)(5)) has occurred. If no excess emission events have occurred during the previous 6-month period, no EER is required.</p> <p>For the purposes of this facility, an excess emission event is each occurrence of an equipment leak for which no repair attempt was made within 5 days or for which repair was not completed within 15 days after detection.</p>	40 CFR Section 63.11095(b)(5), and (c)
OTHER REQUIREMENTS	hdr
Table 3 of 40 CFR pt. 63, subp. BBBB shows which parts of the General Provisions are applicable.	40 CFR Section 63.11098

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-9**

09/23/08

Facility Name: NuStar - Roseville Products Terminal

Permit Number: 12300069 - 004

Subject Item: EU 001 Truck Loading Rack**Associated Items:** CE 001 Activated Carbon Adsorption

GP 003 Equipment Subject to 40 CFR pt. 63, subp. BBBB

SV 001 Bypass

SV 002 Vapor Control Unit/Loading Rack

What to do	Why to do it
EMISSION LIMITS	hdr
Volatile Organic Compounds: less than or equal to 8.0 milligrams/liter of gasoline loaded (measured at the CE001 exhaust point)	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid classification as a major source under 40 CFR Section 70.2 and Minn. R. 7007.0200
Total Organic Compounds: less than or equal to 35 milligrams/liter of gasoline loaded (measured at the CE001 exhaust point)	40 CFR Section 60.502(b); Minn. R. 7011.1550
CONTROL REQUIREMENTS (See Subject Item CE001 for specific operating conditions)	hdr
The Permittee shall operate and maintain the control equipment at all times that any emission unit controlled by the condenser is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid classification as major source under 40 CFR Section 70.2 and Minn. R. 7007.0200
Volatile Organic Compounds: greater than or equal to 98 percent collection efficiency	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid classification as major source under 40 CFR Section 70.2 and Minn. R. 7007.0200
Loading Rack shall be equipped with a vapor collection system designed to collect the total organic compounds displaced from tank trucks during product loading.	40 CFR Section 60.502(a); Minn. R. 7011.1550
The vapor collection system shall be designed to prevent any total organic compounds vapors collected at one loading rack from passing to another loading rack.	40 CFR Section 60.502(d); Minn. R. 7011.1550
The owner or operator shall act to assure that loadings of gasoline tank trucks at the affected facility are made only into tanks equipped with vapor collection equipment that is compatible with the terminal's vapor collection system.	40 CFR Section 60.502(f); Minn. R. 7011.1550
The owner or operator shall act to assure that the terminal's and the tank truck's vapor collection systems are connected during each loading of a gasoline tank truck at the affected facility. Examples of actions to accomplish this include training drivers in the hookup procedures and posting visible reminder signs at the affected loading racks.	40 CFR Section 60.502(g); Minn. R. 7011.1550
OPERATING REQUIREMENTS	hdr
Loadings of liquid product into gasoline tank trucks shall be limited to vapor-tight gasoline tank trucks using the following procedures: - The owner or operator shall obtain the vapor tightness documentation described in 40 CFR Section 60.505(b) for each gasoline tank truck which is to be loaded at the affected facility. - The owner or operator shall require the tank identification number to be recorded as each gasoline tank truck is loaded at the affected facility.	40 CFR Section 60.502(e)(1) & (2); Minn. R. 7011.1550
The owner or operator shall cross-check each tank identification number obtained under 40 CFR Section 502(e)(2) with the file of tank vapor tightness documentation within 2 weeks after the corresponding tank is loaded, unless either of the following conditions is maintained: (A) If less than an average of 1 gasoline tank truck per month over the last 26 weeks is loaded without vapor tightness documentation then the documentation cross-check shall be performed each quarter; or (B) If less than an average of 1 gasoline tank truck per month over the last 52 weeks is loaded without vapor tightness documentation then the documentation cross-check shall be performed semiannually.	40 CFR Section 60.502(e)(3)(i); Minn. R. 7011.1550
If either the quarterly or semiannual cross-check provided under 40 CFR Section 60.502(e)(3)(i)(A) or (B) reveals that these conditions were not maintained, the source must return to biweekly monitoring until such time as these conditions are again met.	40 CFR Section 60.502(e)(3)(ii); Minn. R. 7011.1550

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-10**

09/23/08

Facility Name: NuStar - Roseville Products Terminal

Permit Number: 12300069 - 004

The owner or operator shall notify the owner or operator of each non-vapor-tight gasoline tank truck loaded at the affected facility within 1 week of the documentation cross-check under 40 CFR Section 60.502(e)(3).	40 CFR Section 60.502(e)(4); Minn. R. 7011.1550
The terminal owner or operator shall take steps assuring that the non-vapor-tight gasoline tank truck will not be reloaded at the facility until vapor tightness documentation for that tank truck is obtained.	40 CFR Section 60.502(e)(5); Minn. R. 7011.1550
The vapor collection and liquid loading equipment shall be designed and operated to prevent gauge pressure in the delivery tank from exceeding 4500 pascals (450 mm of water) during product loading. This level is not to be exceeded when measured by the procedures in 40 CFR Section 60.503(d)	40 CFR Section 60.502(h); Minn. R. 7011.1550
No pressure-vacuum vent in the bulk gasoline terminal's vapor collection system shall begin to open at a system pressure less than 4500 pascals (450 mm of water).	40 CFR Section 60.502(i); Minn. R. 7011.1550
TESTING REQUIREMENTS	hdr
Performance Test: due before 06/18/2008 to measure Volatile Organic Compound emissions. Use the test methods and procedures in 40 CFR Section 60.503. This reflects an extension of 365 days from the original due date as allowed under Minn. R. 7007.1400, subp. 1(H). This test was conducted 6/4/2008.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7017.2020, subp. 1
Performance Test Notifications and Submittals; Performance Test Notification (written): due 30 days before each Performance Test Performance Test Plan: due 30 days before each Performance Test Performance Test Pre-Test Meeting: due 7 day before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy or CD: due 105 day after each Performance Test. The Notification, Test Plan, and Test Report may be submitted in alternative format as allowed by Minn. R. 7017.2018.	Minn. R. 7017.2030, subp. 1-4; Minn. R. 7017.2018 and Minn. R. 7017.2035, subp. 1-2
RECORDKEEPING AND REPORTING REQUIREMENTS	hdr
The tank truck vapor tightness documentation required under 40 CFR Section 60.502(e)(1) shall be kept on file at the terminal in a permanent form available for inspection.	40 CFR Section 60.505(a); Minn. R. 7011.1550
The documentation file for each gasoline tank truck shall be updated at least once per year to reflect current test results as determined by Method 27. The documentation for each test shall include, as a minimum, the following information: - Test title: Gasoline Delivery Tank Pressure Test - EPA Reference Method 27; - Tank owner and address; - Tank identification number; - Testing location and date; - Tester name and signature; - Witnessing inspector, if any: Name affiliation, and signature; - Test results: test pressure; actual pressure change in 5 minutes, mm of water (average for 2 runs).	40 CFR Section 60.505(b); Minn. R. 7011.1550
The owner or operator shall keep documentation of all notifications required under 40 CFR Section 60.502(e)(4) on file at the terminal for at least 2 years.	40 CFR Section 60.505(d); Minn. R. 7011.1550
As an alternative to keeping records at the terminal of each gasoline cargo tank test result as required by 40 CFR Section 60.505(a), (c), and (d), an owner or operator may instead ensure that an electronic copy of each record is instantly available at the terminal, provided that the copy of each record is an exact duplicate image of the original paper record with certifying signatures, and the permitting authority (MPCA) is notified in writing that this is the case.	40 CFR Section 60.505(e)(1); Minn. R. 7011.1550
For facilities utilizing a terminal automation system to prevent gasoline cargo tanks that do not have valid vapor tightness documentation from loading, as an alternative to keeping records at the terminal of each gasoline cargo tank test result as required by 40 CFR Section 60.505(a), (c), and (d), an owner or operator may instead ensure that a copy of the documentation is made available (e.g., via facsimile) for inspection by MPCA representatives during the course of a site visit, or within a mutually agreeable time frame, provided that the copy of each record is an exact duplicate image of the original paper record with certifying signatures, and the MPCA is notified in writing that the terminal using this alternative is in compliance with 40 CFR Section 60.505(e)(2).	40 CFR Section 60.505(e)(2); Minn. R. 7011.1550

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-11**

09/23/08

Facility Name: NuStar - Roseville Products Terminal

Permit Number: 12300069 - 004

Subject Item: CE 001 Activated Carbon Adsorption**Associated Items:** EU 001 Truck Loading Rack

What to do	Why to do it
The Permittee shall operate and maintain the carbon adsorption unit in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14
Temperature: less than or equal to 200 degrees F absolute maximum at the control device outlet unless a new maximum temperature is required to be set pursuant to Minn. R. 7017.2025, subp. 3. If a new maximum temperature is required to be set, it will be based on the average temperature recorded during the most recent MPCA approved performance test where compliance for VOC emissions was demonstrated. If the temperature goes above the maximum temperature limit, the VOC emissions during that time shall be considered uncontrolled until the maximum temperature limit is once again achieved.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.020; Minn. R. 7007.0800, subp. 2 and 14
Total Organic Compounds: less than or equal to 35 milligrams/liter of gasoline loaded.	40 CFR Section 60.502 (b); Minn. R. 7011.1550
Water pressure: less than or equal to 17.7 inches of water column during product loading of the vapor collection and liquid loading equipment. This level is not to be exceeded when measured by procedures specified in 40 CFR Section 60.503(d)	40 CFR Section 60.502 (h); Minn. R. 7011.1550
Monitoring Equipment: The Permittee shall install and maintain thermocouples to conduct temperature monitoring required by this permit. The monitoring equipment must be installed, in use, and properly maintained whenever operation of the monitored control equipment is required.	Minn. R. 7007.0800, subp. 4
The Permittee shall maintain a continuous hard copy readout or computer disk file of the temperature readings from the control device inlet.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.020; Minn. R. 7007.0800, subp. 2 and 14
Daily Monitoring: The Permittee shall physically verify the operation of the temperature recording device at least once each operating day to verify that it is working and recording properly. The Permittee shall maintain a written record of the daily verifications.	Minn. R. 7007.0800, subps. 4 and 5
Each calendar month, the vapor collection system, the vapor processing system, and each loading rack handling gasoline shall be inspected during the loading of gasoline tank trucks for total organic compounds liquid or vapor leaks. For the purposes of this requirement, detection methods incorporating sight, sound, or smell are acceptable. Each detection of a leak shall be recorded and the source of the leak repaired within 15 calendar days after it is detected.	40 CFR Section 60.502(j); Minn. R. 7011.1550
Quarterly Inspections: At least once per calendar quarter, or more frequently if required by the manufacturer specifications, the Permittee shall inspect the control equipment internal and external system components. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	Minn. R. 7007.0800, subps. 4, 5, & 14
Annual Calibration: The Permittee shall calibrate the thermocouples at least annually and shall maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subps. 4, 5, & 14
Corrective Actions: If the temperature is above the maximum, or if the adsorber or any of its components are found during the inspections to need repair, the Permittee shall take corrective action as soon as possible. Corrective actions shall return the temperature to the specified limits/ranges and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the condenser. The Permittee shall keep a record of the type and date of any corrective action taken.	Minn. R. 7007.0800, subps. 4, 5, & 14
The tank truck vapor tightness documentation required under 40 CFR Section 60.502(e)(1) shall be kept on file at the terminal in a permanent form available for inspection.	40 CFR Section 60.505(a); Minn. R. 7011.1550

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-12**

09/23/08

Facility Name: NuStar - Roseville Products Terminal

Permit Number: 12300069 - 004

<p>The documentation file for each gasoline tank truck shall be updated at least once per year to reflect current test results as determined by Method 27. This documentation shall include, as a minimum, the following information:</p> <p>(1) Test title: Gasoline Delivery Tank Pressure Test□EPA Reference Method 27. (2) Tank owner and address. (3) Tank identification number. (4) Testing location. (5) Date of test. (6) Tester name and signature. (7) Witnessing inspector, if any: Name, signature, and affiliation. (8) Test results: Actual pressure change in 5 minutes, mm of water (average for 2 runs).</p>	40 CFR Section 60.505(b); Minn. R. 7011.1550
<p>A record of each monthly leak inspection required under 40 CFR Section 60.502(j) shall be kept on file at the terminal for at least 2 years. Inspection records shall include, as a minimum, the following information:</p> <p>(1) Date of inspection; (2) Findings (may indicate no leaks discovered, or location, nature, and severity of each leak); (3) Leak determination method; (4) Corrective action (date each leak repaired, reasons for any repair interval in excess of 15 days); (5) Inspector name and signature.</p>	40 CFR Section 60.505(c); Minn. R. 7011.1550
<p>The terminal owner or operator shall keep documentation of all notifications required under 40 CFR Section 60.502(e)(4) on file at the terminal for at least 2 years.</p>	40 CFR Section 60.505(d); Minn. R. 7011.1550

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-13**

09/23/08

Facility Name: NuStar - Roseville Products Terminal

Permit Number: 12300069 - 004

Subject Item: TK 013 Petroleum Products**Associated Items:** GP 002 Storage Tanks

What to do	Why to do it
<p>The owner or operator of any storage vessel with a storage capacity of greater than 65,000 gallons for which construction was commenced after July 7, 1969, but prior to June 11, 1973, shall comply with the following requirements:</p> <p>(1) If the true vapor pressure of the petroleum liquid, as stored, is equal to or greater than 2.5 psia but not greater than 12.5 psia, the storage vessel shall be equipped with a floating roof, a vapor recovery system or their equivalents.</p> <p>(2) If the true vapor pressure of the petroleum liquid, as stored, is greater than 12.5 psia, the storage vessel shall be equipped with a vapor recovery system or its equivalent.</p>	<p>Minn. R. 7011.1505, subp. 2.C.</p>

TABLE B: SUBMITTALS**B-1** 09/23/08

Facility Name: NuStar - Roseville Products Terminal
Permit Number: 12300069 - 004

Also, where required by an applicable rule or permit condition, send to the Permit Technical Advisor notices of:

- accumulated insignificant activities,
- installation of control equipment,
- replacement of an emissions unit, and
- changes that contravene a permit term.

Send submittals that are required to be submitted to the U.S. EPA regional office to:

Mr. George Czerniak
Air and Radiation Branch
EPA Region V
77 West Jackson Boulevard
Chicago, Illinois 60604

Each submittal must be postmarked or received by the date specified in the applicable Table. Those submittals required by parts 7007.0100 to 7007.1850 must be certified by a responsible official, defined in Minn. R. 7007.0100, subp. 21. Other submittals shall be certified as appropriate if certification is required by an applicable rule or permit condition.

Send submittals that are required by the Acid Rain Program to:

U.S. Environmental Protection Agency
Clean Air Markets Division
1200 Pennsylvania Avenue NW (6204N)
Washington, D.C. 20460

Send any application for a permit or permit amendment to:

AQ Permit Technical Advisor
Industrial Division
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

Table B lists most of the submittals required by this permit. Please note that some submittal requirements may appear in Table A or, if applicable, within a compliance schedule located in Table C. Table B is divided into two sections in order to separately list one-time only and recurrent submittal requirements.

Unless another person is identified in the applicable Table, send all other submittals to:

AQ Compliance Tracking Coordinator
Industrial Division
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS**B-2** 09/23/08

Facility Name: NuStar - Roseville Products Terminal

Permit Number: 12300069 - 004

What to send	When to send	Portion of Facility Affected
Monitoring Plan	due 10 days before Sample Analysis (the first one required). The plan shall detail the procedures that will be employed in using Method TO-3 as required for the monthly Sample Analysis. This plan shall be subject to MPCA revision and approval.	GP001
Notification	due 10 days after Resuming Operation of either unit listed in GP001.	GP001
Report	due 45 days after Sample Analysis (the first one). This report shall contain detailed sampling and analytical detail for the first sample analysis, in a format consistent with Minn. R. 7017.2035, subp. 3. The MPCA may require changes to the Monitoring Plan if review of this report shows deficiencies or errors in the test procedures.	GP001
Testing Frequency Plan	due 60 days after Performance Test for total organic compound emissions. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on one-year (12 month), 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	EU001

TABLE B: RECURRENT SUBMITTALS**B-3** 09/23/08

Facility Name: NuStar - Roseville Products Terminal

Permit Number: 12300069 - 004

What to send	When to send	Portion of Facility Affected
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 12/19/2006 . The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. If no deviations have occurred, the Permittee shall submit the report stating no deviations.	Total Facility
Compliance Certification	due 31 days after end of each calendar year starting 12/19/2006 (for the previous calendar year). To be submitted to the Commissioner on a form approved by the Commissioner. This report covers all deviations experienced during the calendar year.	Total Facility

APPENDIX B: Emission Screening Equation – 40 CFR § 63.420(a)(1)

Facility Name: NuStar - Roseville Products Terminal

Permit Number: 12300069-004

GD-NESHAP Emission Screening Equation

Gasoline Distribution - Terminal Applicability Determination

Terminal	State	CF	T _F	CE	T _E	T _{ES}	T _I	C	K	L	EF	Q	OE	E _T
		fuel factor	# fixed roofs	control efficiency	#EFRs 1° seals	1° & 2° seals	#IFR tanks	pipings eq.	factor	cargo tank factor	em. std.	bbbl/day	hap emiss	total
Roseville	MN	0.161	0	0	0	5	1	7500	2.16E-7	13	35	54730	0.316	0.396

Screening Equation per 40 CFR 63.420(a)(1): $E_T = CF[0.59(T_F)(1-CE) + 0.17(T_E) + 0.08(T_{ES}) + 0.038(T_I) + 8.5E-6(C) + KQ] + 0.04(OE)$

Nomenclature:

CF = Fuel factor (1.0 for reformulated or MTBE-containing oxygenated gasolines, 0.161 for all other gasolines)

T_F = The number of fixed roof gasoline storage tanks with no internal floating roofs

CE = Control efficiency limitation on PTE for controlled emissions from fixed roof gasoline storage tank [0 in this case]

T_E = The number of external floating roof gasoline storage tanks with only primary roof seals

T_{ES} = The number of external floating roof gasoline storage tanks with both primary and secondary roof seals

T_I = The number of fixed roof gasoline storage tanks with an internal floating roof

C = The number of pumps, valves, connectors, loadarm valves, and open ended lines in gasoline service

Q = Federally enforceable gasoline throughput limit in BBL/DAY (program converts to Liters/Day)

K = 4.52E-6 for racks with no vapor collection and processing systems

K = (4.5E-9)(EF + L) for terminals with flares or vapor recovery units

EF = The federally enforceable emission standard for the flare or vapor recovery unit (typically 35 mg/L)

L = 13 mg/L for gasoline cargo tanks with vapor tightness program in place; otherwise L = 304 mg/L

OE = Total HAP from other emission sources not specified the other parameters (miscellaneous sources)

E_T = Major source applicability factor; if E_T > 1.0, then source is considered major (other options may be available)

Non-Gasoline Service Hazardous Air Pollutant Emissions

Source	VOC (lb/yr)
Storage Tanks	1,546
Loading Rack	1,331
Fugitive Emissions	1,000
TOTAL	3,877

NOTE:

- 1) Fugitive emissions from piping equipment and pumps associated with non-gasoline HAPs emission sources are included in the gasoline service components. Addition of these equipment into the "C" term of the screening equation will provide a conservative estimate for HAPs emissions from these sources.
- 2) Loading rack emissions are based on potential distillate throughput.
- 4) Miscellaneous activities include, but is not limited to, tank gauging/sampling, tank cleaning, oil/water product separation systems, and maintenance and operational activities.
- 5) Storage tank emissions for Distillate tanks only.

Distillate Product Data

Molecular Weight of Liquid, MW _l	185 lb/lbmole (diesel)
Molecular Weight of Vapor, MW _v	130 lb/lbmole (diesel)
True Vapor Pressure of Diesel, TVP	0.06 psia @ 70F

HAPs Emissions from Non-gasoline Sources

Constituent	liquid mass fraction	vapor pres (psia @ 60F)	vapor mass fraction	HAPs emissions lb/yr	HAPs storage tanks	HAPs loading rack	HAPs fugitive emissions
	C _{li}	P _i	X _{vi}		lb/yr	lb/yr	lb/yr
Hexane (total)	0.001	1.91	0.045	176	70	60	45
Benzene	0.002	1.17	0.055	215	86	74	55
Iso-Octane	0.000	0.58	0.000	0	0	0	0
Toluene	0.004	0.33	0.031	121	48	42	31
Ethylbenzene	0.002	0.11	0.005	20	8	7	5
Xylenes (mixed)	0.008	0.13	0.025	95	38	33	25
Cumene	0.001	0.05	0.001	5	2	2	1
Total (lbs/yr)				632	252	217	163
Total (tpy)				0.316	0.126	0.108	0.082

NOTE:

- 1) Xylene (mixed) vapor pressure based on meta-xylene as a conservative approximation.
- 2) Liquid MW, Vapor MW, and Liquid Mass Fraction from Radian document.
- 3) TVP from AP-42 tables.

HAP Constituent Vapor Pressures

Daily average liquid surface temperature (deg. C)= 15.56 = (60 F)

Constituent	A	B	C	log P	P (mm Hg)	P (psi)
Hexane	6.876	1171.17	224.41	1.995	99.0	1.913
Benzene	6.905	1211.033	220.79	1.781	60.4	1.168
Iso-Octane						0.580
Toluene	6.954	1344.8	219.48	1.232	17.1	0.330
Ethylbenzene	6.975	1424.255	213.21	0.749	5.6	0.109
Xylenes (ortho)	6.998	1474.679	213.69	0.565	3.7	0.071
Cumene	6.963	1460.793	207.78	0.422	2.6	0.051
Xylenes (meta)	7.009	1426.266	215.11	0.826	6.7	0.129

Notes:

- 1) A = dimensionless, B = deg. Celcius, C = deg. Celcius
- 2) A, B, C data for all except iso-octane from AP-42, Table 7.1-5
- 3) Antoine vapor pressure equation for all except iso-octane from AP-42, eqn 1-12b
 $\log P = A - (B/(TLA + C))$
- 4) Daily average liquid surface temperature assumed to be 60F for conservative estimate
- 5) Vapor pressure for iso-octane from AP-42, Table 7.1-3, at temp of 70F.

APPENDIX C: Insignificant Activities Required To Be Listed**Facility Name:** NuStar Roseville Products Terminal**Permit Number:** 12300069-004**Insignificant Activities and Applicable Requirements**

The table below lists the insignificant activities that are currently at the facility and their associated general applicable requirements. Under Minn. R. 7007.1250, subp. 1(A), the Permittee may add insignificant activities to the stationary source throughout the term of the permit without getting permit amendments. Certain exclusions apply and are listed in Minn. R. 7007.1250, subp.2.

Minn. R. 7007.1300, subpart	Rule Description of the Activity	Likely Applicable Requirement
3(I)	Individual emissions units at a stationary source, each of which have a potential to emit the following pollutants in amounts less than: 1. 4,000 lbs/year of carbon monoxide; and 2. 2,000 lbs/year each of nitrogen oxide, sulfur dioxide, particulate matter, particulate matter less than ten microns, volatile organic compounds (including hazardous air pollutant-containing VOC), and ozone. There are several small storage tanks that are insignificant under this item: TK009, TK014 – TK023, TK026 – TK033	Minn. R. 7011.1505 Minn. R. 7011.0710/0715
3(J)	Fugitive Emissions from roads and parking lots.	Minn. R. 7011.0150

TECHNICAL SUPPORT DOCUMENT
For
AIR EMISSION PERMIT NO. 12300069-004

This technical support document is intended for all parties interested in the permit and to meet the requirements that have been set forth by the federal and state regulations (40 CFR § 70.7(a)(5) and Minn. R. 7007.0850, subp.1). The purpose of this document is to provide the legal and factual justification for each applicable requirement or policy decision considered in the determination to issue the permit.

1. General Information

1.1 Applicant and Stationary Source Location:

Applicant/Address	Stationary Source/Address (SIC Code: 4613, 4789)
NuStar Energy L.P. 7340 West 21 st Street North, Suite 200 Wichita, KS 67205	NuStar – Roseville Products Terminal 2288 W County Road C Roseville, Ramsey County
Contact: Suzanna McMillan Phone: 316-721-7029	

1.2 Description of the Facility

The Roseville terminal is a 60 acre bulk terminal for petroleum products. The facility consists of 11 main product storage tanks, a Vapor Combustion Unit (VCU) (this replaced their Vapor Recovery Unit, VRU), and a truck loading rack. The terminal began operation in 1947. The terminal receives petroleum products through a pipeline distribution network consisting of three pipelines. Petroleum products are shipped out to other terminals through one of the pipelines or to retailers and bulk stations through five tank truck loading spots. Product transfer from refineries to terminal and between terminals occurs on a continuous basis. The primary products handled are unleaded gasoline, No. 1 and No. 2 fuel oils, ethanol, and jet fuels. Volatile organic compound (VOC) emissions result primarily from loading trucks and from storage tank losses.

1.3 Description of the Activities Allowed by this Permit Action

An administrative amendment application was received May 21, 2007 in accordance with Minn. R. 7007.1400, subp. 1(E) that requested a change in name of the parent company of Kaneb Pipe Line Operating Partnership, L.P. This name change occurred on April 1, 2007. The new name of the parent company is NuStar Energy L.P. (formerly known as Valero L.P.). Another administrative amendment application was received August 7, 2008 in accordance with Minn. R. 7007.1400, subp. 1(B) that requested a change in facility name. The name of the facility changed March 31, 2008 from Kaneb Pipe Line Operating Partnership – Roseville Products Terminal to NuStar - Roseville Products Terminal.

In the May 21, 2007 application, the permittee inadvertently checked box “B” for a change in facility name as per Minn. R. 7007.1400 subp.1(B) when instead they should have marked box

“E” for an amendment reflecting a change in ownership or operational control of a stationary source.

The facility in Roseville, MN also requests a 365 day extension on a performance test for CE001. The facility is upgrading the equipment and this test extension will allow them to test at worst case conditions for the new equipment being used. The equipment being installed and tested is a new Vapor Combustion Unit (VCU) that is replacing the old Vapor Recovery Unit (VRU). In a phone conversation with Ms. McMillan on June 13, 2008 she stated that the performance test for CE001 was conducted on June 4, 2008. The new VCU at the facility will be subject to 40 CFR pt. 60, subp. XX with a requirement of 35 mg Total Organic Compounds/liter. New citations pertaining to NSPS Subpart XX were added to the permit for CE001.

The permittee submitted an initial notification that they are subject to 40 CFR pt. 63, subp. BBBB on May 9, 2008. A new group was added to the facility description and all applicable tanks, emission units and fugitive sources were included in this new group. The appropriate language for the NESHAP subpart was added to the permit.

The new recordkeeping requirement per Minn. R. 7007.1200, subp. 4 was added to the permit.

1.4 Changes to GP003 Equipment Subject to 40 CFR pt. 63, subp. BBBB in Table A

The following citations were added to Table A of the permit from comments made by the Permittee during their review of the draft permit.

1: 40 CFR Section 63.11083(b) If the facility is an existing affected source, the Permittee must comply with the standards in this subpart no later than January 10, 2011.

2: 40 CFR Section 63.11087(b) The Permittee must comply with the requirements of this subpart by the applicable dates specified in Section 63.11083, except that storage vessels equipped with floating roofs and not meeting the requirements of paragraph (a) of this section must be in compliance at the first degassing and cleaning activity after January 10, 2011 or by January 10, 2018, whichever is first.

2. Conclusion

Based on the information provided by NuStar Roseville Terminal, the MPCA has reasonable assurance that the proposed operation of the emission facility, as described in the Air Emission Permit No. 12300069-004 and this technical support document, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

Staff Members on Permit Team: Tarik Hanafy (permit writer/engineer)
 Bob Beresford (enforcement)
 Shanda Fisher (stack testing)
 Toni Volkmeier (peer reviewer)

AQ File No. 772A; DQ 1535, 2186

Attachments: 1. Facility Description and CD-01 Forms