Facility ID: 1413110230 Issuance type: Final State Permit To Operate

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In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

   (a) None.

2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

   (a) None.

A. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Gasoline Storage Tanks - Three (3) 6,000 gallon underground storage tanks	OAC rule 3745-21-09(R)	Stage I vapor control - 90% control efficiency for VOCs, submerged fill
Gasoline Dispensing Operation - Eight (8) dispensing nozzles, Stage II vapor recovery	OAC rule 3745-21-09(DDD)	Stage II vapor control - 95% control efficiency for VOC
Diesel Fuel Storage Tank - One (1) 1,000 gallon underground storage tank	OAC rule 3745-21-09(L)(2)(a), less than 40,000 gallon capacity	Exempt

2. **Additional Terms and Conditions**

   (a) Pursuant to OAC rule 3745-21-09 (DDD)(1)(b), the Stage II vapor control system shall be installed, operated, and maintained in accordance with the applicable certification granted by the California Air Resources Board (CARB) as described in Part II, Section F below.

   Any figures or exhibits identified in this permit are available from the appropriate Ohio EPA District Office or local air agency upon request.

B. **Operational Restrictions**

1. The permittee shall comply with the following operational restrictions for the Stage I vapor control system:

   a. The vapor balance system shall be kept in good working order and shall be used at all times during the transfer of gasoline.

   b. There shall be no leaks in the delivery vessel pressure/vacuum relief valves and hatch covers.

   c. There shall be no leaks in the vapor lines or liquid lines during the transfer of gasoline.

   d. The transfer of gasoline from a delivery vessel to a stationary storage tank shall be conducted by use of submerged fill into the storage tank. The submerged fill pipe(s) are to be installed so they are within six (6) inches of the bottom of the storage tank.

   e. All fill caps shall be "in place" and clamped during normal storage conditions.

   f. The permittee shall repair within 15 days any leak from the vapor balance system or vapor control system which is employed to meet the requirements of paragraph (R)(1) of OAC rule 3745-21-09 when such leak is equal to or greater than 100 percent of the lower explosive limit as propane, as determined under paragraph (K) of OAC rule 3745-21-10.

2. The permittee shall comply with the following operational restrictions for the Stage II vapor control system:

   a. The vapor control system shall be installed, operated and maintained in accordance with the manufacturer's specifications and the applicable certification granted by the CARB, and shall be free of the following defects:

      i. Any component, that is required to be employed at all times pursuant to the system certification granted by the CARB, is absent or disconnected.

      ii. A vapor hose is crimped or flattened such that the vapor passage is blocked, or the pressure drop through the vapor hose exceeds by a factor of two or more the requirements in the certification granted by the CARB.

iii. A vacuum producing device is inoperative or malfunctioning.

iv. Pressure/vacuum relief valves, vapor check valves, or dry breaks are inoperative.

v. Any vapor recovery equipment is leaking liquid gasoline or gasoline vapors.

vi. Any other equipment defect identified in the CARB certification as one which substantially impairs the effectiveness of the vapor control system.

b. The vapor control system must have successfully passed the testing requirements contained in paragraph (DDD)(2) of OAC rule 3745-21-09. These testing requirements are also specified in Part II, Section E and Part II, Section F.6.

c. Operating instructions for the vapor control system shall be conspicuously posted in each gasoline dispensing area. The operating instructions shall clearly describe how to properly fuel motor vehicles and shall specifically prohibit the topping off of the motor vehicle fuel tank.

C. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain records of the results of any leak checks, including, at a minimum, the following information:

a. Date of inspection.

b. Findings (may indicate no leaks discovered or location, nature, and severity of each leak).

c. Leak determination method.

d. Corrective action (date each leak repaired and reasons for any repair interval in excess of 15 calendar days).

e. Inspector's name and signature.

2. The permittee shall maintain records of the following information:

a. The quantity of gasoline delivered to the facility during each calendar month.

b. The results of any tests performed pursuant to the testing requirements specified in this permit.

c. A log of the date and description of all repair and maintenance work performed (including, but not limited to, work performed to meet manufacturer's specifications or CARB certification requirements), or any other modifications made to the vapor control system.

d. A copy of the most recent permit to operate application (including appendix) submitted to the Ohio EPA.

e. A copy of the most recent permit to operate issued by the Ohio EPA.

f. Proof of attendance and completion of the training required by the Ohio EPA for the operator or local manager of the gasoline dispensing facility.

g. Copies of all completed post test inspection forms.

D. **Reporting Requirements**

1. Any leak from the vapor balance system or vapor control system that is not repaired within 15 days after identification shall be reported to the Director within 30 days after the repair is completed.

2. A comprehensive written report on the results of any tests performed in accordance with the requirements of this permit shall be submitted within 30 days following the completion of the tests.

E. **Testing Requirements**

1. The Stage II vapor control system must successfully meet all requirements regarding testing contained in OAC rule 3745-21-09(DDD)(2). In accordance with the test procedures listed in OAC rule 3745-21-10, the following tests shall be performed: static leak test and dynamic pressure performance test.

At intervals not to exceed five (5) years, the permittee shall repeat and demonstrate compliance with the static leak test requirements contained in OAC rule 3745-21-10, Appendix A (unless a greater frequency is specified in the applicable CARB certification), and the dynamic pressure performance test requirements contained in OAC rule 3745-21-10, Appendix B (unless the dynamic pressure performance test is not applicable to the specific Stage II vapor control system, as specified in the applicable CARB certification).

Not later than thirty (30) days prior to any required tests, the permittee shall submit a test notification to the appropriate Ohio EPA District Office or local air agency.

The test notification shall describe the proposed test methods and procedures, the time and the date of the tests, and the person who will be conducting the tests. Failure to submit such notification prior to the tests may result in the Ohio EPA's refusal to accept the results of the tests. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information during the tests. After completion of any tests, the permittee shall complete and retain on site a copy of the post test inspection form contained in OAC rule 3745-21-10, Appendix C.

F. **Miscellaneous Requirements**

1. The Healy Model 600 Vacuum Assist Stage II vapor recovery system employed at this facility, including all associated underground and aboveground plumbing, shall be installed, operated, and maintained in accordance with CARB Executive Order G-70-165, CARB Approval Letters 97-96 and 97-20, and associated manufacturer's specifications, which includes, but is not limited to, the requirements contained within this Section.

2. The permittee shall comply with the following design and installation specifications from CARB Executive Order G-70-165:

a. The equipment approved for use with the Healy Vacuum Assist system is specified in Exhibit 1 of Executive Order G-70-165. Other equipment may not be used unless approved by CARB for use with the Healy Vacuum Assist system.

b. The maximum length of the coaxial hose shall be thirteen (13) feet, and the maximum allowable length of hose which may be in contact with the top of the island block, or ground, shall be six (6) inches per loop.

c. Each vent pipe shall be equipped with a CARB certified pressure/vacuum relief valve. Plumbing may be manifolded to reduce the number of relief valves needed. The vent manifold may be used as an alternative to an underground manifold only in existing installations where vapor piping is already installed.

d. The settings of the pressure/vacuum relief valve(s) shall be as follows:

i. Pressure: Three (3.0) +/- one-half (0.5) inches of water column

ii. Vacuum: Eight (8.0) +/- two (2.0) inches of water column

e. Breakaway couplings are optional but, if installed, only certified breakaways with a valve which closes the vapor path when separated may be used.

f. A Healy 6280 System Monitor shall be installed and wired such that no dispensing can occur unless the monitor is ON and operational. (This feature will ensure the monitor is detecting and recording any failures. It is not intended to terminate dispensing of gasoline at the site.)

g. The system monitor shall be located in an area that is visible to station personnel while at their common workplace.
h. A threaded tap of at least 1/4" in diameter shall be provided on the inlet side of the central vacuum unit. The tap shall remain plugged and vapor tight except when test equipment is being connected or removed.

i. A valve (such as a ball valve) shall be installed in the vapor return line such that the lines can be isolated from the underground storage tanks for the purpose of conducting the test in Exhibit 4 of G-70-165. The valve shall remain open at all times except when the test is being conducted. No product shall be dispensed when this valve is closed.

j. The permittee shall provide OSHA-acceptable access to the central vacuum unit for inspection and testing.

k. Coaxial Stage I vapor recovery systems shall not be installed with new installations or replacement installations of Stage I or Stage II vapor recovery systems. Existing coaxial Stage I systems may be used with new installations of the Healy Model 600 Vacuum Assist Stage II vapor recovery systems if all of the following are met:

i. The existing coaxial Stage I system is a poppeted, CARB certified system.

ii. The installation of the Stage II system requires no modification of the underground storage tank(s) and/or connections.

iii. The existing coaxial Stage I equipment is in good working order and has demonstrated compliance with Static Leak Test criteria when tested with all fill caps removed.

3. The permittee shall comply with the following operational restrictions from CARB Executive Order G-70-165:

a. The Healy Vacuum Assist Stage II system shall be maintained in accordance with the System Operating Manual approved by CARB. Any alteration of the equipment, parts, design, or operation of the system is prohibited unless approved by CARB.

b. The maximum dispensing rate shall not exceed ten (10.0) gallons per minute (gpm). Compliance with this condition shall be verified with only one nozzle in operation per product supply pump.

c. A vapor guard shall be installed on the nozzle as shown in Figure 2C of G-70-165. Any nozzle with a vapor guard which is missing, or which is damaged such that a slit from the outer edge of the open end flange to the spout anchor clamp, or which has equivalent cumulative damage, is defective and shall be removed from service.

d. Vapor collection holes in the nozzle spout shall remain unblocked. Any nozzle that has fewer than four unblocked holes is defective and shall be immediately removed from service.

e. The Healy 600 nozzle has an integral vapor valve which prevents the loss of vapor from the underground storage tanks, ensures proper operation of the system and prevents the ingestion of air into the system. Any nozzle with a defective vapor valve shall be immediately removed from service.

f. The normal operating range for vacuum levels is 65" to 85" of water column. Based on the performance curves for each pump (central vacuum unit), the maximum number of fueling points which can be operated simultaneously within the normal operating range of vacuum levels is as follows:

<> << Maximum Number of Simultaneous Fueling Points>>

Model 2000C Blower (1hp) 9

Thomas Industries VP 500 5
Vane Pump (1/2 hp)

9000 Mini-Jet Pump 4
g. No gasoline dispensing shall be allowed when the central vacuum unit is disabled for maintenance or for

any other reason.

4. The permittee shall comply with the following performance specification from CARB Executive Order G-70-165:

   The air-to-liquid ratio (A/L) shall be within 1.10 plus or minus 0.10 (1.00 to 1.20) when tested in accordance with an A/L test procedure adopted by the Ohio EPA.

5. The permittee shall comply with the following monitoring requirements in accordance with CARB certification of the Healy 6280 System Monitor and the manufacturer's specifications :

   a. The Healy 6280 System Monitor shall sound an audible alarm for any of the following system failures:

   i. Excess Vent Failure - vapor venting for more than 10 cumulative hours within a calendar day.

   ii. Vacuum Failure - three consecutive occurrences of vacuum not reaching a minimum 65" water column within 15 seconds of vacuum source start-up.

   iii. No Vacuum Failure - vacuum not reaching a minimum 65" water column within one hour of vacuum start.

   b. The RESET button may be used to silence the alarm, but it will continue to resound every four hours until the cause has been corrected.

6. The permittee shall comply with the following record keeping requirements in accordance with CARB certification of the Healy 6280 System Monitor and the manufacturer's specifications.

   The permittee shall maintain a daily log of all alarm events and corresponding maintenance actions. This log shall be kept on-site at all times and shall contain at minimum, the following information:

   a. Date & time of alarm
   b. Type of alarm(s)
   c. Date and time of call for maintenance
   d. Date maintenance performed
   e. Maintenance performed

   Attached is a Healy Systems Monitor Log (monthly sheet) and instructions for recording daily information on alarm events, maintenance calls, and maintenance performed.

7. The permittee shall comply with the following reporting requirements in accordance with CARB certification of the Healy 6280 System Monitor and the manufacturer's specifications.

   a. The station owner/operator shall call for maintenance within 24 hours of the initial alarm sounding.

   b. If repairs are not made within 72 hours, the owner/operator shall immediately notify in writing the appropriate Ohio EPA District Office or local air agency regarding the malfunctioning vapor recovery system. This notification shall include the following information:

   i. Date and time of the initial alarm and description of the problem that caused the alarm.

   ii. Reason why repair cannot be completed within 72 hours of the initial alarm.

   iii. Estimated gallons of gasoline to be dispensed from time of initial alarm until repair can be completed.

8. The permittee shall comply with the following testing requirements from CARB Executive Order G-70-165:

   a. The "Static Pressure Integrity Test" and the "Vapor Return Line Vacuum Integrity Test for the Healy Model 600 System" contained in CARB Executive Order G-70-165 Exhibits 3 and 4, respectively, shall be successfully conducted at least once in each twelve-consecutive-month period. The appropriate Ohio EPA District Office or local air agency shall be notified at least 30 days prior to conducting these annual tests. Test results shall be submitted to the appropriate Ohio EPA District Office or local air agency within 30 days after testing is completed.

   b. In accordance with CARB Executive Order G-70-7-165, the dynamic pressure performance test specified under the testing requirements of OAC rule 3745-21-09(DDD)(2) and contained in OAC rule 3745-21-10, Appendix B is not applicable to the Healy Model 600 Vacuum Assist System.