

Standard Authority to Construct Conditions for Healy EVR w/ISD Installations
Bay Area AQMD

1. 1. The Healy EVR Phase II Vapor Recovery System with ISD, including all associated underground plumbing, shall be installed, operated, and maintained in accordance with the most recent revision of the California Air Resources Board (CARB) Executive Order* VR-202*. Section 41954(f) of the California Health and Safety Code prohibits the sale, offering for sale, or installation of any vapor control system unless the system has been certified by the state board.

2. Only CARB-certified EVR Phase I vapor recovery systems shall be used in conjunction with the Healy EVR Phase II Vapor Recovery System with ISD.

3. The owner/operator of the facility shall maintain records in accordance with the following requirements. Records shall be maintained on site and made available for inspection for a period of 24 months from the date the record is made.

a) Monthly throughput of gasoline pumped, summarized on an annual basis

b) A record of scheduled maintenance as required by E.O. VR-202, Exhibit 2, Figure 2B-19

c) A record of all other inspections, testing, maintenance, failures, and corrective activities.

4. All applicable components shall be maintained to be leak free and vapor tight. Leak Free, as per BAAQMD (District) Regulation 8-7-203, is a liquid leak of no greater than three drops per minute. Vapor Tight as defined in District Manual of Procedures, Volume IV, ST-30.

5. Start-up notification: applicant must contact the assigned Permit Engineer, listed in the correspondence section of this letter, by phone, by fax [(415) 749-4949], or in writing at least three days before the initial operation of the equipment is to take place. Operation includes any start-up of the source for testing or other purposes. Operation of equipment without notification being submitted to the District, may result in enforcement action. * Please do not send start-up notifications to the Air Pollution Control Officer*.

6. The following performance tests shall be successfully conducted at least ten (10) days, but no more than thirty (30) days after start-up. For the purpose of compliance with this Condition, all tests shall be conducted after back-filling, paving, and installation of all required Phase I and Phase II components.

*a. Vapor-to-Liquid Test in accordance with E.O. VR-202, Exhibit 5. The vapor-to-liquid ratio shall be between 0.95 and 1.15 when measured at dispensing rates

between 6 and 10 gallons per minute. **/ NOTE: For start up testing ONLY, two gallons of liquid gasoline must be introduced down each dispenser riser prior to the test. /*

b. Healy Clean Air Separator Static Pressure Performance test in accordance with E.O. VR-202, Ex. 4.

*c. Static Pressure Performance Test, in accordance with CARB Test Procedure TP-201.3 (3/17/99). If the tank size is 500 gallons or less, the test shall be performed on an empty tank. *

d. Nozzle Bag Test on all nozzles in accordance with E.O. VR-202, Ex. 7.

e. ISD Operability Test in accordance with E.O. VR-202, Ex. 9.

f. Phase I Adaptor Static Torque Test on all rotatable Phase I adaptors in accordance with CARB TP-201.1B and the applicable CARB Executive Order.

*g. One of the following tests. The measured leak rate for each component shall be within the limits set in the applicable CARB Executive Order: *

- . * Stations equipped with drop tube overflow prevention devices ("flapper valves"): a Drop Tube Overflow Prevention Device and Spill Container Drain Valve Leak Test in accordance with CARB Test Procedure TP-201.1D and the applicable CARB Executive Order.*

- . * All other stations: a Drop Tube/Drain Valve Assembly Leak Test in accordance with CARB Test Procedure TP-201.1C and the applicable CARB Executive Order.*

8. The Healy EVR Phase II system with ISD shall be capable of demonstrating on-going compliance with the vapor integrity requirements of CARB Executive Order VR-202. The owner or operator shall conduct and pass a* Static Pressure Decay Test*, a* Vapor-to-Liquid Test*, a* Healy Clean Air Separator Static Pressure Performance test*, an* ISD Operability Test* and* Nozzle Bag Tests on all nozzles* at least once in each 12-month period following successful completion of start-up testing. Tests shall be conducted using the above referenced test methods. Results shall be submitted to the District within 20 days of the test date in a District-approved format.

9. The applicant shall notify Source Test by email at _gdfnotice@baaqmd.gov _ gdfnotice@baaqmd.gov or by FAX at (510) 758-3087, at least 48 hours prior to any testing

required for permitting. Test results for all performance tests shall be submitted within fifteen (15) days of testing. Start-up tests results submitted to the District must include the application number and the GDF number. (For annual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email ([_gdfresults@baaqmd.gov_](mailto:gdfresults@baaqmd.gov) [<mailto:gdfresults@baaqmd.gov>](mailto:gdfresults@baaqmd.gov) [_>](mailto:gdfresults@baaqmd.gov)), FAX (510) 758-3087) or mail (BAAQMD Source Test Section, Attention Hiroshi Doi, 939 Ellis Street, San Francisco CA 94109).

10. The maximum length of the coaxial hose assembly, including breakaway, swivels, and whip hoses, shall be twenty (20) feet. The maximum allowable length of hose which may be in contact with the top of the island block or the ground shall be six (6) inches.

11. Only the standard (E.O. VR-202, Ex. 2, Fig. 2B-2), "lazy -J" (Fig. 2B-3), "curley-Q," (Fig. 2B-4), and other hose configurations certified by CARB for use on the Healy EVR Phase II system with ISD are allowed.

12. The dispensing rate shall not exceed ten (10.0) gallons per minute (gpm), nor be less than six (6.0) gpm with the trigger at the highest setting. Compliance with this condition shall be verified with only one nozzle in operation per product supply pump.

13. The Healy Clean Air Separator (HCAS) shall be located no more than 100 feet from the tank vent lines. The line connecting the HCAS shall slope down towards the vent lines at a minimum of 1/8" per linear foot. The Air Breather Assembly shall be a minimum of 12 feet above grade.

14. All ball valves shall be positioned for normal operation as shown in E.O. VR-202, Ex. 2, Figs. 2B-5 through 2B-9 except when necessary for testing and maintenance.

15. The Healy EVR Phase II Vapor Recovery System with ISD shall be installed, operated, and maintained in accordance with the System Operating Manual approved by CARB.

16. No dispensing shall be allowed when a vapor collection pump is disabled for maintenance or for any other reason. Only those nozzles affected by the disabled vapor collection pump are subject to this condition.

17. All vapor recovery piping shall be a minimum of 3" in diameter after the manifolding of the dispenser lines. All vapor recovery piping shall slope down towards the lowest octane tank at a minimum of 1/8" per linear foot. Condensate traps or knock-out pots are prohibited.

18. Vapor recovery piping shall be manifolded below grade at the tanks.

19. Each vent pipe shall be equipped with a CARB certified pressure/vacuum relief valve as required by the applicable Phase I E.O.. The valve shall be installed at a height not less than twelve (12) feet above the driveway surface used for Phase I tank truck filling operations. Plumbing may be manifolded to reduce the number of relief valves needed. The District recommends that vents be manifolded to a single relief valve whenever possible.

20. Each dispenser shall be equipped with a Vapor Flow Meter. The dispenser nearest the gasoline tanks shall be equipped with a Vapor Pressure Sensor.

21. The inner diameter of the connector between the dispenser and the vapor return piping riser shall be 1".

22. The Veeder-Root ISD system and TLS console may only be installed and serviced by contractors that have completed the Veeder-Root training program. The TLS console may only be installed by contractors with a current Level 1 certificate. The ISD system may only be installed by contractors with a current Level 2, 3, or 4 certificate. Installation and start-up shall be in accordance with VR-202 and the Veeder Root installation manual.

23. All ISD operations, including response to warning and alarm conditions and resetting of the system, shall be in accordance with VR-202, CARB Certification Procedure CP-201, and applicable District permit conditions.

24. The ISD TLS console shall be wired to automatically shutdown the turbine pumps and prohibit dispensing during a CP-201 ISD failure alarm or loss of power to the TLS Console.

25. Permanent access to all vapor recovery and ISD equipment shall be provided for the purpose of inspection and/or testing.

26. The current gasoline throughput at this facility shall not exceed X million gallons of gasoline per year.