



COMPLIANCE ASSISTANCE BULLETIN
March 2008

Healy Scheduled Maintenance for Phase II EVR
(Executive Orders VR-201 and VR-202)

The Installation and Operations Manual for Healy Phase II Enhanced Vapor Recovery (EVR) systems (EO VR-201 and VR-202) requires the owner or operator to perform maintenance every week, quarter, and year in addition to the self-inspections required by District Rules 4621 – *Gasoline Transfer into Stationary Storage Containers, Delivery Vessels, and Bulk Plants*, and 4622 – *Gasoline Transfer into Motor Vehicle Fuel Tanks*.

Weekly Inspection and Testing

Inspect each nozzle, hose, and breakaway for damage, loose connections, or leaks. Inspect nozzles from damaged nozzle boots or spouts. Any nozzle with a vapor collection boot which is missing, or which has one half of the mini-boot which is missing, or which has one half of the mini-boot faceplate or greater missing should be replaced or repaired. Spouts with visible damage must be replaced.

Inspect hoses for wear, severe kinks, cracks, and splitting. Replace if wire braid is visible.

Notwithstanding, facilities that dispense greater than 25,000 gallons per month must inspect each nozzle, hose, and breakaway at least 5 days per week in accordance with the requirements of District Rules 4621 and 4622.

The VP1000 Vacuum Pump shall be tested for normal operation **weekly**. Normal Operation will have the pump running at low speed if only one side of the dispenser is activated (ready to dispense fuel) and at full speed if both sides are activated.

Test each of the following items. If ANY of them cannot be achieved, tag out the dispenser and call a Healy Certified Technician for service.

- Activate the dispenser and lift a nozzle. The vacuum pump should come on immediately.
- Repeat for each nozzle on both sides of the dispenser

Note: For unihose dispensers, conduct individual tests for each product grade

- Leave one nozzle activated on one side and with the pump running, activate and lift a nozzle on the other side of the dispenser and listen for a change of speed (increase) in the pump motor.
- Repeat the step 3, but start with the opposite side of the dispenser. After the vacuum pump increases speed, it will not drop back to single speed until one of the nozzles is reholstered.

Quarterly Inspection and Testing

Perform the weekly inspection prior to the quarterly inspection.

Inspect the VP1000 pump for loose or damaged vapor line connections. If the copper tubing is kinked or loose remove the dispenser from service and call a Healy Certified Technician.

Check the maximum product dispensing flow rate. Verify the flow rate is between 6.0 gpm and 10.0 gpm.

- If the flow rate is less than 6.5 gpm, replace filters and recheck. If the flow rate does not increase remove the fueling point from service.
- If flow rate is greater than 10 gpm install a Healy Model 1301 or 1302 Flow Limiter and check the flow rate again. If the flow rate still exceeds 10 gpm remove the fueling point from service.

Check the clean air separator for proper operating configuration (see EO VR-201 or VR-202 Exhibit 2 Figure 2B-2 or 2B-2H).

Semi-Annual Testing (to be performed by a Healy Certified Technician only)

Conduct V/L test on all nozzles (EO VR-201 and VR-202 Exhibit 5)

Annual Inspection and Testing (to be performed by a Healy Certified Technician only)

Perform weekly and quarterly inspection prior to annual inspection.

Conduct static pressure performance of the Healy Clean Air Separator (EO VR-201 or VR-202 Exhibit 4).

Conduct pressure decay test (TP-201.3 and EO VR-201 and VR-202 Exhibit 8)

Conduct Dynamic Back Pressure (TP-201.4).

Conduct dispenser vapor line tightness test found in the Healy dispenser manual under “testing the system” for each dispenser. Repair all leaks.

Conduct V/L test on all nozzles (EO VR-201 and VR-202 Exhibit 5).

Drive-Offs

After a drive-off, breakaway reconnections must be performed in accordance with the procedure in the ARB approved Installation, Operation, and Maintenance Manual (IOM). Reconnections and/or service shall be logged in the Repair Log. Prior to returning the hanging hardware to service, it must be tested per the procedure in the IOM.

Recordkeeping

Weekly and Quarterly inspection records should be kept with the period maintenance self-inspections required by rule District Rules 4621 and 4622. Facilities may use the attached self-inspection form for Healy Phase II EVR Systems or may utilize a custom form provided it contains the minimum information included on the District form.

Questions and Additional Information

If you have any questions or need clarification regarding the information contained within this bulletin please feel free to contact:

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