

NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

Env-OR 500

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NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES

Env-OR 500

CHAPTER Env-Or 500 RECOVERY OF GASOLINE VAPORS

Statutory Authority: RSA 125-C:4, I(a); RSA 125-C:6, II & XIV

PART Env-Or 501 PURPOSE; APPLICABILITY

Env-Or 501.01 Purpose. The purpose of this part is to regulate emissions of volatile organic compounds (VOCs) from gasoline storage tanks, gasoline dispensing facilities, and cargo trucks in accordance with sections 182(b)(3) and 184 of the Clean Air Act, as amended.

Env-Or 501.02 Applicability. This chapter shall apply to gasoline storage tanks, gasoline dispensing facilities, and cargo trucks as follows:

(a) Env-Or 503 shall apply to all gasoline storage tanks having a capacity of 250 gallons or greater;

(b) Env-Or 504, Env-Or 506, Env-Or 508, and all applicable reference standards listed in Env-Or 509 shall apply to any gasoline dispensing facility, including those at airports and marinas, that:

(1) Has any gasoline storage tank with a capacity equal to or greater than 1,100 gallons of gasoline; or

(2) Has a total facility throughput of equal to or greater than 10,000 gallons of gasoline per rolling 30-day period;

(c) Env-Or 505 shall apply to any gasoline dispensing facility that:

(1) Is subject to stage I requirements; and

(2) Meets the criteria specified in Env-Or 505.01(a); and

(d) Env-Or 507, Env-Or 508, and all applicable reference standards listed in Env-Or 509 shall apply to any cargo truck that delivers gasoline to any gasoline dispensing facility that meets the applicability criteria for stage I as stated in (b), above.

Env-Or 501.03 Cargo Trucks at Bulk Facilities. The owner or operator of any cargo truck that receives gasoline from a bulk gasoline loading terminal as defined in Env-A 1202.22 or that delivers gasoline to or receives gasoline from a bulk gasoline plant as defined in Env-A 1202.23 shall comply with the vapor recovery requirements in Env-A 1217.

PART Env-Or 502 DEFINITIONS

Env-Or 502.01 “2-point system” means a type of stage I system which uses a vapor return connection at the gasoline storage tank or at the manifold that is independent of the fill connection, for which separate connections are made for the gasoline and vapor recovery hoses. This is also known as a “dual-point system.”

Env-Or 502.02 “Air contaminant” means “air contaminant” as defined in RSA 125-C:2, II, as reprinted in Appendix C.

Env-Or 502.03 “Assist system” means a type of stage II system which uses a vacuum pump to assist the transfer of displaced vapors from a motor vehicle fuel tank into a gasoline storage tank at a gasoline dispensing facility.

Env-Or 502.04 “Balance system” means a type of stage II system which relies on a tight seal between the nozzle and the vehicle fill port which causes the displacement and transfer of vapors from a motor vehicle fuel tank into a gasoline storage tank.

Env-Or 502.05 “Cargo truck” means any motor vehicle designed or used to transport or deliver gasoline. The term includes “gasoline tank truck” as used in Env-A 1217 and “gasoline cargo tank” as used in 40 CFR Part 63, Subpart CCCCCC.

Env-Or 502.06 “Certified vapor recovery system” means a vapor recovery system that is configured, certified, and operated as specified in the applicable reference standard in Env-Or 509.

Env-Or 502.07 “Coaxial system” means a type of stage I system which consists of a tube within a tube, such that gasoline is delivered to the gasoline storage tank through the inner tube and the vapors from the gasoline storage tank are returned via the interstice surrounding the fill tube, with a single coupling servicing both the gasoline and vapor recovery hoses.

Env-Or 502.08 “Emission” means “emission” as defined in RSA 125-C:2, VIII, as reprinted in Appendix C.

Env-Or 502.09 “Gasoline” means motor fuel containing any petroleum distillate where the Reid vapor pressure of the fuel is greater than 4.0 pounds per square inch (psi).

Env-Or 502.10 “Gasoline dispensing facility” means any stationary facility that dispenses gasoline directly into the fuel tank of a motor vehicle, motorized water vessel, or airplane. The term includes all equipment necessary for the purpose, including but not limited to nozzles, dispensers, pumps, vapor return lines, plumbing, and gasoline storage tanks.

Env-Or 502.11 “Gasoline storage tank” means any tank used to store gasoline other than a tank that is used as part of the bulk operations at a bulk gasoline loading terminal or bulk gasoline plant.

Env-Or 502.12 “Leak free” means a system where no gasoline is leaked while the system is pressurized.

Env-Or 502.13 “Lower explosive limit (LEL)” means the lowest concentration of a gas or vapor percentage by volume in air that burns or explodes if an ignition source is present at ambient temperature.

Env-Or 502.14 “Manifold” means a device used to interconnect gasoline storage tanks via a tank vent piping system at a gasoline dispensing facility.

Env-Or 502.15 “Monthly throughput” means “monthly throughput” as defined in 40 CFR §63.11132, as reprinted in Appendix C.

Env-Or 502.16 “Motor vehicle” means an on-road vehicle powered in whole or in part by an internal combustion engine.

Env-Or 502.17 “Onboard refueling vapor recovery (ORVR)” means a vapor recovery system required by 40 CFR 86 that is located within a motor vehicle to collect the vapors accumulated in the fuel tank during refueling, as well as new fuel vapors generated during the refueling process, before the fuel vapors escape into the atmosphere.

Env-Or 502.18 “ORVR compatible” means, as applied to a stage II system, that the system is designed for use with both ORVR and non-ORVR equipped vehicles.

Env-Or 502.19 “Owner or operator” means “owner or operator” as defined in 40 CFR §51.100, as reprinted in Appendix C.

Env-Or 502.20 “Poppeted dry break” means a stage I coupling equipped with a poppet valve that prevents vapors in a gasoline storage tank from escaping when a vapor return hose is not connected.

Env-Or 502.21 “Pressure/Vacuum (PV) vent cap” means a relief valve installed on a stage I or stage II system that is designed to open at specific pressure and vacuum settings to protect the system from excessive pressure or vacuum.

Env-Or 502.22 “Reid vapor pressure” means the absolute vapor pressure as determined by the American Society for Testing and Materials (ASTM), test method D323-08.

Env-Or 502.23 “Significant modification” means any construction or alteration of a stage I or stage II system that is not normal upkeep or maintenance.

Env-Or 502.24 “Stage I” means the regulatory system that requires the capture of vapors from bulk gasoline transfers.

Env-Or 502.25 “Stage I system” means the stage I equipment installed to recover gasoline vapors displaced from a gasoline storage tank during gasoline delivery and feed the vapors back into the cargo truck.

Env-Or 502.26 “Stage I equipment” means all components and connections in a stage I system including but not limited to dry breaks, two-point fill adaptors, coaxial fill adaptors, PV vent caps, vent piping, manifold piping, and gasoline storage tanks on which the stage I controls are located.

Env-Or 502.27 “Stage II” means the regulatory system that requires the capture of vapors from gasoline transfers from bulk storage to individual motor vehicles.

Env-Or 502.28 “Stage II system” means the stage II equipment installed at a gasoline dispensing facility to recover gasoline vapors displaced from a motor vehicle fuel tank during refueling of the motor vehicle and return the vapors to the facility’s gasoline storage tank.

Env-Or 502.29 “Stage II equipment” means all components and connections in a stage II system including but not limited to vapor return piping, coaxial hoses through which the vapor flows, gasoline nozzles, vapor pumps, and gasoline dispensers, as applicable.

Env-Or 502.30 “Submerged fill tube” means a tube used to load or deliver gasoline into a gasoline storage tank where the gasoline discharge is totally submerged throughout the entire gasoline delivery.

Env-Or 502.31 “Swivel adaptor” means a device mounted on the fill riser pipe and vapor return riser of a gasoline storage tank that prevents loosening or over-tightening of the adaptor by means of a swivel-type mechanism.

Env-Or 502.32 “Test tee fitting” means a branched connection located in the vapor return piping below the dispenser for purposes of testing the vapor return piping.

Env-Or 502.33 “Throughput” means the amount of gasoline dispensed by a gasoline dispensing facility.

Env-Or 502.34 “Topping off” means attempting to dispense additional gasoline into a motor vehicle fuel tank after a vapor recovery dispensing nozzle has automatically shut off in order to prevent the dispensing of any more gasoline. This term does not include the filling of a motor vehicle fuel tank where the nature and configuration of the vehicle’s fill pipe causes the premature shut off of the dispensing nozzle.

Env-Or 502.35 “Ullage” means the empty volume of a gasoline storage tank system that contains liquid gasoline. For vapor recovery systems, ullage is expressed as accumulated gallons of empty volume for all of the gasoline storage tanks in a certified vapor recovery system.

Env-Or 502.36 “Vapor tight” means equipment or a system where there is no loss of vapors, as determined by ensuring that the concentration of vapors at a potential leak source is not equal to or greater than 100 percent of the LEL when measured with a combustible gas detector, calibrated with hexane or equivalent, at a distance of one inch from the source.

Env-Or 502.37 “Working days” means calendar days exclusive of weekends and state holidays.

**PART Env-Or 503 REQUIREMENTS APPLICABLE TO ALL GASOLINE STORAGE
TANKS 250 GALLONS OR GREATER**

Env-Or 503.01 Submerged Fill Tube Requirements. The owner or operator of a gasoline storage tank having a capacity equal to or greater than 250 gallons shall:

- (a) Equip the tank with a submerged fill tube;
- (b) Install the submerged fill tube so there is a clearance of at least 4 inches but less than 6 inches between the bottom of the tank and the point at which gasoline can first exit the submerged fill tube; and
- (c) Use the submerged fill tube whenever fuel is being added to the tank.

Env-Or 503.02 Gasoline Mishandling Prohibited. No person shall deliberately, recklessly, or negligently mishandle gasoline being delivered to or unloaded from a gasoline storage tank having a capacity equal to or greater than 250 gallons such that gasoline could evaporate into the atmosphere. For purposes of this section, mishandling includes but is not limited to spilling, discarding onto the ground or into a sewer or storm drain, or storing in an open container.

Env-Or 503.03 Throughput Recordkeeping Required. The owner or operator of a gasoline storage tank having a capacity equal to or greater than 250 gallons shall:

- (a) Record daily gasoline throughput volume;
- (b) Maintain the records required by (a), above, for not less than 3 years; and
- (c) Make such records available for inspection and copying upon written request by the department or the U.S. Environmental Protection Agency (EPA).

Env-Or 503.04 Required Throughput Reporting.

- (a) The owner or operator of a gasoline storage tank having a capacity equal to or greater than 250 gallons at a gasoline dispensing facility that has not been subject to stage I requirements shall report throughput information in writing to the department within 30 days of the facility's throughput equaling or exceeding 10,000 gallons per rolling 30-day period.
- (b) The written submittal required by (a), above, may be submitted on paper, via email, or via fax.

**PART Env-Or 504 STAGE I REQUIREMENTS FOR GASOLINE DISPENSING
FACILITIES**

Env-Or 504.01 Continuing Applicability of Stage I Requirements For Gasoline Dispensing Facilities. Any gasoline dispensing facility that meets the applicability criteria specified in Env-Or 501.02(b) shall continue to be subject to the stage I requirements even if a reduction in throughput occurs that would otherwise exempt the facility from these requirements.

Env-Or 504.02 Stage I Equipment Requirements.

(a) The owner or operator of a gasoline dispensing facility that is subject to this part shall:

- (1) Install and maintain a stage I system that is a certified vapor recovery system;
- (2) Equip each vent pipe on an underground or aboveground gasoline storage tank with a PV vent cap;
- (3) Label each PV vent cap with the cap's rated pressure and vacuum relief setting;
- (4) Position the label specified in (3), above, so that it is visible from ground level;
- (5) Install a submerged fill tube as specified in Env-Or 503.01;
- (6) For a two-point system:
 - a. Install a poppetted dry break on the vapor return connection; and
 - b. Equip the poppetted dry break with a properly sealed adaptor cap attached at all times, except when gasoline is being delivered; and
- (7) Install a fill adaptor cap with a properly sealed gasket attached at all times, except when gasoline is being delivered.

(b) Unless otherwise specified in an applicable reference standard for the installed certified vapor recovery system and subject to (c), below, the owner or operator shall install PV vent caps on underground gasoline storage tanks and on aboveground gasoline storage tanks as follows:

- (1) For pressure, 2.5 to 6.0 inches water column pressure; and
- (2) For vacuum, 6.0 to 10.0 inches water column vacuum.

(c) If a PV vent cap was installed prior to the 2012 effective date of this chapter and meets the pressure and vacuum standards specified in Env-Wm 1404.06(b) or (d) in effect immediately prior

to the 2012 effective date of this chapter, as reprinted in Appendix D and as applicable, the owner or operator may continue to use the PV vent cap until the earlier of:

- (1) Three years from the 2012 effective date of this chapter;
- (2) The cap is required to be replaced pursuant to Env-Or 504.05(c)(2); or
- (3) Stage I testing is required pursuant to one of the conditions of Env-Or 504.07(a).

Env-Or 504.03 Stage I System Operational Requirements.

(a) The owner or operator of a gasoline dispensing facility that is subject to this part shall:

- (1) Operate the stage I system to recover at least 95% of all gasoline vapors at the facility or to be at least as efficient as the manufacturer's design efficiency, whichever is higher;
- (2) Operate all stage I equipment as specified by the manufacturer or the applicable reference standard specified in Env-Or 509; and
- (3) Use the installed submerged fill tube to fill the tank.

(b) No person shall transfer or allow the transfer of gasoline into a gasoline storage tank at a gasoline dispensing facility that is subject to this part unless the tank is equipped with an operational stage I certified vapor recovery system.

(c) No person shall deliberately, recklessly, or negligently vent any gasoline vapors captured by a stage I system to the atmosphere.

Env-Or 504.04 Required Stage I System Inspections and Maintenance. The owner or operator of a gasoline dispensing facility that is subject to this part shall:

- (a) Conduct monthly maintenance inspections of all stage I equipment at the facility as specified in Env-Or 504.05;
- (b) Conduct an annual maintenance inspection of all stage I equipment at the facility as specified in Env-Or 504.06;
- (c) Maintain stage I equipment as specified by the manufacturer or the applicable reference standard specified in Env-Or 509; and
- (d) Maintain all stage I equipment, except PV vent caps, to be leak free and vapor tight.

Env-Or 504.05 Stage I System Monthly Maintenance Inspections.

(a) The owner or operator shall perform the monthly maintenance inspections required by Env-Or 504.04(a) once in each calendar month, but not sooner than 23 days after and not later than 37 days after the prior monthly inspection.

(b) The owner or operator shall document each monthly maintenance inspection, including all findings and repairs made, with written or electronic records kept in accordance with Env-Or 506.04.

(c) During each monthly maintenance inspection, the owner or operator shall:

(1) Check all vent risers for visible damage and repair as necessary;

(2) Check each PV vent cap and if the cap is missing or damaged, replace the cap;

(3) Remove and discard any gasoline, water, or debris present in each spill bucket in accordance with Env-Hw 100-1100;

(4) Check each coaxial fill adaptor cap, 2-point fill adaptor cap, and dry break adaptor cap for the presence of a gasket and tightness of fit;

(5) If any coaxial fill adaptor cap, 2-point fill adaptor cap, or dry break adaptor cap can be easily rotated by hand when in place or if a gasket is missing or damaged, repair or replace the cap or gasket as applicable;

(6) Replace any failed fill adaptor with a swivel adaptor;

(7) Check each coaxial fill adaptor, 2-point fill adaptor, and dry break adaptor for tightness and tighten with a wrench any adaptor that can be hand rotated; and

(8) For a 2-point system:

a. Check that the dry break adaptor gasket on the poppet valve of the dry break adaptor makes a continuous seal with the valve seat of the adaptor and replace the dry break adaptor with a swivel dry break adaptor if a continuous seal is not present; and

b. Check that the poppet valve depresses evenly across the valve seat of the dry break adaptor and that it reseats properly, and replace the dry break adaptor with a swivel dry break adaptor if either condition is not met.

(d) If the owner of the facility is a political subdivision, a dry break adaptor that does not meet the requirements of (c)(8), above, shall be repaired or replaced with a non-swivel type dry break adaptor if the political subdivision chooses to not pay for a swivel-type adaptor.

Env-Or 504.06 Stage I System Annual Maintenance Inspection.

(a) Subject to (e), below, the owner or operator shall perform the annual maintenance inspections required by Env-Or 504.04(b):

(1) No later than September 30 of each calendar year; and

(2) Subject to (b), below, no sooner than 10 months after the prior annual inspection.

(b) If a stage I test is done in lieu of an annual inspection as provided in (e), below, the owner or operator shall perform the next annual maintenance inspection no sooner than 10 months after the stage I test.

(c) The owner or operator shall document each annual maintenance inspection, including all findings and repairs made, with written or electronic records kept in accordance with Env-Or 506.04.

(d) During each annual maintenance inspection, the owner or operator shall:

(1) Perform all inspections and maintenance specified in Env-Or 504.05 for monthly inspections;

(2) Replace or permanently plug each drain valve located in each spill bucket;

(3) Verify that adaptor caps and dust covers are not in contact with overlying access covers; and

(4) Ensure that the submerged fill tube has the clearance specified in Env-Or 503.01(b).

(e) In annual maintenance inspection shall not be required for any calendar year in which the stage I system successfully passes a stage I system test performed as specified in Env-Or 504.07 through Env-Or 504.10 prior to the due date of the annual inspection as specified in (a), above.

Env-Or 504.07 Stage I System Testing Requirements.

(a) The owner or operator of a gasoline dispensing facility that is subject to this part shall perform stage I system testing as specified in Env-Or 504.08 through Env-Or 504.10:

(1) For tanks at gasoline dispensing facilities having a throughput of 100,000 gallons per month or more, at least once every 3 years; and

(2) For all tanks, within 30 days of:

a. Failing to perform 2 monthly maintenance inspections in accordance with Env-Or 504.05 in any given calendar year;

b. Failing to perform the annual maintenance inspection as required by Env-Or 504.06(a);
or

c. Discovering that the stage I system is not functioning as specified in the applicable stage I certification reference standard in Env-Or 509.

(b) The owner or operator of each gasoline dispensing facility being tested or retested shall notify the department in writing at least 7 working days prior to performing the test of the planned test date, test time, and if applicable, the testing consultant being used.

(c) If the test is being performed pursuant to (a)(1) or (a)(2)c., above, the owner or operator shall schedule testing to be conducted:

(1) On non-holiday weekdays between the hours of 8:00 a.m. and 4:00 p.m., unless otherwise arranged with the department in advance; and

(2) With oversight by the department.

(d) Within 30 days of the completion of each test performed, the owner or operator of each gasoline dispensing facility being tested or retested shall notify the department in writing of the specific test results, and if a test failed, the specific actions to be taken to correct the problem and the next planned test time and date.

(e) The owner or operator of a gasoline dispensing facility that does not meet all of the criteria for a successful stage I system test shall:

(1) Undertake repairs or other modifications as necessary to address the reason(s) for the unsuccessful test; and

(2) Subject to (f), below, retest the stage I system within 30 days of the failed test.

(f) If the modifications performed to repair the facility have not altered a portion of the system that passed the original test, the retest may be performed only on those portions of the stage I system that failed the original test.

Env-Or 504.08 Required Stage I System Test Components. The owner or operator of a gasoline dispensing facility shall ensure that stage I system test procedures consist of the following:

- (a) A PV vent cap test for pressure and vacuum as specified in Env-Or 504.09;
- (b) A pressure decay test as specified in Env-Or 504.10; and
- (c) A submerged fill tube measurement to ensure and document that the requirements of Env-Or 503.01(b) are met.

Env-Or 504.09 PV Vent Cap Test Procedures, Criteria, and Required Actions.

- (a) The PV vent cap test for pressure and vacuum required by Env-Or 504.08(a) shall be conducted in accordance with California Air Resources Board (CARB) Vapor Recovery Test Procedure (TP) 201.1E, Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves, dated October 8, 2003.
- (b) To pass the pressure and vacuum tests specified in (a), above, the:
 - (1) Pressure relief point shall occur between 2.5 to 6.0 inches water column pressure;
 - (2) The vacuum relief point shall occur between 6.0 to 10.0 inches water column pressure; and
 - (3) The total leak rate of all PV vent caps at the facility shall not exceed 0.17 cubic feet per hour at a pressure of 2.0 inches water column and 0.63 cubic feet per hour at a vacuum of 4.0 inches water column.
- (c) If the PV vent cap fails either the pressure test or the vacuum test as specified in (a) and (b), above, the owner or operator shall replace the PV vent cap with a PV vent cap as specified in Env-Or 504.02(b) that passes the test requirements of (b), above.

Env-Or 504.10 Pressure Decay Test Procedures, Criteria, and Required Actions.

- (a) The pressure decay test required by Env-Or 504.08(b) shall be performed:
 - (1) Following the PV vent cap test specified in Env-Or 504.09; and
 - (2) In accordance with CARB TP-201.3A, as amended April 12, 1996, except that the test shall be performed at 10 inches water column pressure.

(b) To pass the pressure decay test, the minimum allowable final pressure after the system has been pressurized to 10 inches water column and held for 5 minutes shall be as specified in table 500-1, below:

Table 500-1 Minimum Allowable Pressure

Ullage (gallons)	Minimum Allowable Pressure (inches water column)	Ullage (gallons)	Minimum Allowable Pressure (inches water column)
500	3.70	5,000	9.30
600	4.50	6,000	9.38
700	5.20	7,000	9.46
800	5.80	8,000	9.52
900	6.20	9,000	9.56
1,000	6.50	10,000	9.60
1,250	7.05	11,000	9.62
1,500	7.50	12,000	9.64
1,750	7.90	13,000	9.66
2,000	8.20	14,000	9.68
2,250	8.35	15,000	9.70
2,500	8.50	16,000	9.71
2,750	8.60	17,000	9.71
3,000	8.70	18,000	9.72
3,250	8.80	19,000	9.73
3,500	8.90	20,000	9.73
3,750	9.00	21,000	9.74
4,000	9.10	22,000	9.75
4,250	9.15	23,000	9.75
4,500	9.20	24,000	9.76
4,750	9.25	25,000	9.77

(c) If the stage I system does not pass the pressure decay test, the owner or operator shall undertake such repairs as are necessary and retest until the stage I system passes the test.

Env-Or 504.11 Compliance Schedule for Stage I Systems.

(a) If the throughput of a gasoline dispensing facility that had not previously met the criteria of Env-Or 501.02(b) becomes equal to or greater than 10,000 gallons of gasoline per rolling 30-day period, the owner or operator shall comply with all applicable requirements of this chapter within 180 days after the date the facility becomes subject to this part.

(b) The owner or operator of a gasoline dispensing facility that begins operation after the effective date of this chapter and that meets the criteria of Env-Or 501.02(b) shall comply with all applicable requirements of this chapter upon commencement of operation.

(c) The owner or operator of a gasoline dispensing facility that already is subject to stage I requirements and that undergoes significant modifications to any tank or piping shall comply with all applicable requirements of this chapter as to the complete stage I system, including all modified components, upon completion of the modifications.

(d) If the monthly throughput of a gasoline dispensing facility is 100,000 gallons of gasoline per month or more as of the effective date of this chapter, the owner or operator shall comply with Env-Or 504.07(a)(1) within 180 days of the 2012 effective date of this chapter.

(e) If the monthly throughput of a gasoline dispensing facility increases to 100,000 gallons of gasoline per month or more subsequent to the 2012 effective date of this chapter, then:

(1) The owner or operator shall comply with Env-Or 504.07(a)(1) within 180 days of the throughput becoming equal to or greater than 100,000 gallons of gasoline per month; and

(2) The facility shall continue to be subject to Env-Or 504.07(a)(1) even if a reduction in throughput occurs to below the specified threshold.

PART Env-Or 505 STAGE II REQUIREMENTS FOR GASOLINE DISPENSING FACILITIES

Env-Or 505.01 Applicability of Stage II Requirements.

(a) The owner or operator of a gasoline storage tank at a gasoline dispensing facility shall comply with this part in addition to Env-Or 503, Env-Or 504, Env-Or 506, Env-Or 508, and applicable reference standards in Env-Or 509 if the facility:

(1) Meets the criteria specified in Env-Or 501.02(b) for a stage I system;

(2) Is located in Hillsborough, Merrimack, Rockingham, or Strafford county;

(3) Does not qualify for an exemption pursuant to Env-Or 505.02; and

(4) Meets one of the following criteria:

- a. The facility has a throughput equal to or greater than 35,000 gallons per rolling 30-day period; or
- b. The facility was constructed after November 15, 1990, regardless of the amount of throughput.

(b) Once a facility meets the applicability criteria in (a), above, the owner or operator shall continue to be subject to the stage II requirements even if a reduction in throughput occurs to below the threshold specified in (a)(4)a., above.

Env-Or 505.02 Exemptions from Stage II Requirements.

(a) Any gasoline dispensing facility that services only motorized water vessels, airplanes, or agricultural equipment shall be exempt from this part.

(b) The owner or operator of a gasoline dispensing facility that meets the criteria specified in Env-Or 505.01(a)(1), (2), and (4) shall be exempt from the requirements to install and to operate stage II equipment provided that:

(1) Facility construction commences on or after January 1, 2012;

(2) Facility construction commenced prior to January 1, 2012 but stage II equipment had not been installed prior to January 1, 2012; or

(3) The owner or operator decommissions the stage II equipment in accordance with Env-Or 505.03.

Env-Or 505.03 Decommissioning Stage II Systems.

(a) Subject to (d), below, the owner or operator of a gasoline dispensing facility equipped with stage II equipment shall decommission the stage II equipment by December 22, 2015 in accordance with this section.

(b) To qualify for an exemption under Env-Or 505.02(b)(3) or to comply with (a), above, the owner or operator shall do the following in the order listed:

(1) Submit a completed notification form as described in Env-Or 506.02 to notify the department of the intent to decommission the stage II equipment;

(2) Conduct a pressure decay test on the stage II vapor return piping as specified in Env-Or 505.11 and Env-Or 505.12 within 30 days prior to the scheduled decommissioning of the stage II equipment;

(3) Decommission the stage II system in accordance with all of the steps listed in the Petroleum Equipment Institute Recommended Practices for Installation and Testing of Vapor-Recovery Systems at Vehicle-Fueling Sites, PEI RP 300-09, Section 14, Decommissioning Stage II Vapor Recovery Piping, 2009 edition; and

(4) If the stage II vapor return piping did not pass the pressure decay test even after retesting in accordance with Env-Or 505.10(b), permanently close the stage II vapor return piping as specified in Env-Wm 1401.18(g)(2) or successor rule in subtitle Env-Or.

(c) Any owner or operator who decommissions stage II vapor recovery equipment shall continue to comply with the pressure decay and PV vent cap pressure and vacuum testing requirements of Env-Or 505.10 through Env-Or 505.12 for all equipment that remains in place, including any stage II vapor return piping that remains connected at the tank.

(d) The requirement to decommission a stage II vapor recovery system shall not apply to political subdivisions. If a political subdivision that owns a stage II system chooses to decommission the equipment, such decommissioning shall comply with (b), above.

Env-Or 505.04 Stage II Equipment Requirements.

(a) The owner or operator of a gasoline dispensing facility that meets the criteria of Env-Or 505.01(a) shall:

(1) Install and maintain a stage II system that is a certified vapor recovery system; and

(2) Use a 2-point system at each assist system facility.

(b) Unless otherwise specified in an applicable reference standard for the installed certified vapor recovery system and subject to (c), below, the owner or operator shall install PV vent caps as follows:

(1) For pressure, 2.5 to 6.0 inches water column pressure; and

(2) For vacuum, 6.0 to 10.0 inches water column vacuum.

(c) If a PV vent cap was installed prior to the 2012 effective date of this chapter and meets the pressure and vacuum standards specified in Env-Wm 1404.18(b) in effect immediately prior to the 2012 effective date of this chapter, as reprinted in Appendix D, the owner or operator may continue to use the PV vent cap until the earlier of:

- (1) Three years from the 2012 effective date of this chapter;
- (2) The cap is required to be replaced pursuant to Env-Or 505.08(c)(1); or
- (3) Stage II testing is required pursuant to one of the conditions of Env-Or 505.10(a).

(d) The owner or operator of any stage II equipment that is subject to a dynamic back pressure test as specified in Env-Or 504.12 shall permanently install, at each dispenser, a test tee fitting that is:

- (1) Equipped with a plug securely threaded into the branch connection; and
- (2) Accessible to allow for testing of the vapor return piping.

Env-Or 505.05 Stage II Operational Requirements.

(a) The owner or operator of a gasoline dispensing facility that is subject to this part shall operate the stage II system to recover at least 95% of all gasoline vapors at the facility or to be at least as efficient as the manufacturer's design efficiency, whichever is higher.

(b) No owner or operator of a gasoline dispensing facility that is subject to this part shall transfer or allow the transfer of gasoline from a gasoline storage tank at the facility into a motor vehicle fuel tank unless the facility is operating with a stage II system that is a certified vapor recovery system.

(c) No person shall deliberately, recklessly, or negligently vent any vapors captured by a stage II vapor recovery system to the atmosphere.

(d) The owner or operator of a gasoline dispensing facility using a stage II system shall post in a conspicuous location in the gasoline dispensing area:

(1) A warning that topping off is prohibited because it could result in spillage or return of gasoline into the gasoline storage tank; and

(2) The department telephone number for reporting difficulties with stage II equipment and equipment malfunctions.

Env-Or 505.06 Required Stage II System Inspection and Maintenance. The owner or operator of a gasoline dispensing facility that is subject to this part shall:

- (a) For balance systems, conduct daily inspections of each gasoline dispenser nozzle as specified in Env-Or 505.07;
- (b) Conduct monthly maintenance inspections of all stage II equipment at the facility as specified in Env-Or 505.08;
- (c) Conduct annual maintenance inspections of all stage II equipment at the facility as specified in Env-Or 505.09;
- (d) Maintain stage II equipment as specified by the manufacturer or by the applicable reference standard specified in Env-Or 509; and
- (e) With the exception of PV vent caps, maintain stage II equipment to be leak free and vapor tight.

Env-Or 505.07 Stage II Balance System Daily Nozzle Inspection Requirements.

- (a) The owner or operator shall perform the daily inspection required by Env-Or 505.06(a) for a balance system on each nozzle once per day of facility operation as follows:
 - (1) Remove the nozzle from its dispenser holder;
 - (2) Extend the hose to create a straight section of sloping hose section between the high point of the hose and the nozzle;
 - (3) With the nozzle pointed into a container approved for gasoline storage, pull back the nozzle bellows to open the nozzle vapor valve; and
 - (4) Drain any residual liquid gasoline out of the vapor portion of the nozzle and hose into the gasoline storage container.
- (b) The owner or operator performing the test shall mark the gasoline dispenser nozzle as “Out of Order” with a tag or a bag if the nozzle is not operating as specified in the applicable reference standard in Env-Or 509.
- (c) No person shall use or allow the use of equipment marked “Out of Order” until it has been repaired, replaced, or adjusted, as necessary, and retested to ensure it is working properly.

Env-Or 505.08 Stage II Monthly Maintenance Inspections.

(a) The owner or operator shall perform the monthly maintenance inspections required by Env-Or 505.06(b) once in each calendar month, but not sooner than 23 days after and not later than 37 days after the prior monthly inspection.

(b) The owner or operator shall document the monthly maintenance inspection, including all findings and repairs made, with written or electronic records kept in accordance with Env-Or 506.04.

(c) During each monthly maintenance inspection, the owner or operator shall:

(1) Complete all items required for stage I specified in Env-Or 504.05(c);

(2) For a balance system:

a. Check each hose in and around each dispenser for tears, leaks, holes, or defects of any kind and replace any hoses containing any tear longer than 1/2-inch or any hole greater than 1/4-inch in diameter;

b. Check each nozzle bellow for tears, leaks, holes, or defects of any kind and replace any bellows containing any tear longer than 1/2-inch or any hole greater than 1/4-inch in diameter; and

c. Check each nozzle bellow's faceplate for continuity with a minimum of 75% of the bellows faceplate sealed against the vehicle fill pipe during fueling operation and replace any bellows faceplate not meeting that criterion; and

(3) For an assist system:

a. Check each hose for kinks or crimps and replace all defective sections;

b. Check each nozzle spout for looseness and tighten or replace as necessary;

c. Check each vapor return hole on the nozzle spout for blockage or obstruction and replace the nozzle or spout if the number of unobstructed holes does not meet the requirements for a specific stage II system; and

d. If a splash or vapor guard is required, check each splash or vapor guard for integrity and replace if the guard is missing or damaged.

Env-Or 505.09 Stage II System Annual Maintenance Inspection.

(a) Subject to (d), below, the owner or operator shall perform the annual maintenance inspection required by Env-Or 505.06(c) as specified in Env-Or 504.06.

(b) The owner or operator shall document each annual maintenance inspection, including all findings and repairs made, with written or electronic records kept in accordance with Env-Or 506.04.

(c) During each annual maintenance inspection, the owner or operator shall perform all inspections and maintenance specified in Env-Or 505.07, if applicable, and Env-Or 504.06(c).

(d) An annual maintenance inspection shall not be required for any calendar year in which the stage II system successfully passes a pressure decay test performed as specified in Env-Or 504.12 prior to the due date of the annual inspection as specified in (a), above.

Env-Or 505.10 Required Stage II System Testing.

(a) The owner or operator of a gasoline dispensing facility that is subject to this part shall perform stage II system testing as specified in Env-Or 505.11 and Env-Or 505.12 at least once every 3 years and at the following times:

(1) No later than 15 days after completion of installation of a new stage II system;

(2) No later than 15 days after completion of any significant modification to an existing stage II system;

(3) No later than 15 days after completion of any backfill, pavement, or concrete work around stage II equipment;

(4) Within 90 days prior to the expiration date of any stage II permit issued as provided in Env Or 505.13; and

(5) No later than 30 days following an inspection that identifies deficiencies in the certified stage II vapor recovery system at the facility.

(b) The owner or operator of a facility that does not meet all of the criteria for a successful test shall:

(1) Undertake repairs or other modifications as necessary to address the reason(s) for the unsuccessful test; and

(2) Subject to (c), below, retest the stage II system within 30 days of the failed test.

(c) If the modifications performed to repair the facility have not altered a portion of the system that passed the original test, the retest may be performed only on those portions of the stage II system that failed the original test.

Env-Or 505.11 Stage II System Testing: Scheduling and Notification Requirements.

(a) The owner or operator shall schedule testing to be conducted:

(1) On non-holiday weekdays between the hours of 8:00 a.m. and 4:00 p.m., unless otherwise arranged with the department in advance; and

(2) With oversight by the department.

(b) Prior to initiating a test, the owner or operator shall notify the department in writing of the planned test date, test time, and testing consultant being used, if applicable.

(c) The owner or operator shall send the notice required by (b), above, by letter, fax, or e-mail, so long as the notice is received by the department at least 7 working days in advance of the test date.

(d) Within 30 days of the completion of the test, the owner or operator shall notify the department in writing by fax, letter, or e-mail of the specific test results and data collected during the testing.

(e) The owner or operator shall report any test failure to the department in writing within 24 hours, unless the cause is immediately determined and corrected and the failure did not result in a release of vapors to the environment.

Env-Or 505.12 Stage II System Testing Procedures.

(a) In this section:

(1) "TP 201.3A" means CARB TP 201.3A Pressure Decay dated April 12, 1996, except that the test shall be performed at 10 inches water column;

(2) "TP 201.4" means CARB TP 201.4 Dynamic Back pressure dated July 3, 2002; and

(3) "TP 201.5" means CARB TP 201.5 Air to Liquid Ratio (A/L) dated February 1, 2001.

(b) Testing shall be conducted at a facility only if all volumetric liquid gasoline measuring devices at each dispenser have been calibrated in accordance with the requirements of the bureau of weights and measures of the New Hampshire department of agriculture, markets, and food.

(c) The owner or operator shall perform the following specified tests:

(1) For a balance system:

- a. The pressure decay test performed in accordance with TP 201.3A; and
- b. The dynamic back pressure test performed in accordance with TP 201.4 on each nozzle;

(2) For a bootless nozzle system:

- a. The pressure decay test performed in accordance with TP 201.3A;
- b. The dynamic back pressure test performed in accordance with TP 201.4 test tee fitting location as described in Env-Or 505.04(c); and
- c. The A/L test performed in accordance with TP 201.5;

(3) For Healy Model 400 ORVR compatible booted nozzle system using a central vacuum unit:

- a. The pressure decay test performed in accordance with CARB executive order G-70-186 or G-70-187;
- b. The Healy vacuum integrity test; and
- c. The Healy fillneck vapor pressure regulation fueling test;

(4) For Healy Model 600 bootless or booted nozzle system and Healy Model 800 booted nozzle system with the Healy/Franklin VP 1000 vapor pump or equivalent:

- a. The pressure decay test performed in accordance with CARB executive order G-70-191;
 - b. The dynamic back pressure test in accordance with TP 201.4 at the test tee fitting location described in Env-Or 505.04(c); and
 - c. The A/L test with a Healy A/L adaptor for booted nozzles performed in accordance with TP 201.5; and
- (5) For Healy Model 600 bootless system using a central vacuum unit:
- a. The pressure decay test performed in accordance with CARB executive order G-70-165;
 - b. The Healy vacuum integrity test; and
 - c. The A/L test performed in accordance with TP 201.5.
- (d) For any pressure decay test performed in accordance with TP 201.3A, the owner or operator shall ensure, and the individual conducting the pressure decay test shall verify, that there are no product deliveries into or out of any gasoline storage tank within the 3 hours prior to the test or during the performance of the test.
- (e) All A/L test equipment shall be calibrated once every 12 months as specified by the manufacturer.
- (f) To pass the pressure decay test, the minimum allowable final pressure after the system has been pressurized to 10 inches water column and held for 5 minutes shall be as specified in Env-Or 504.10(b), table 500-1.
- (g) The owner or operator shall verify that PV vent cap pressure and vacuum tests are performed as specified in Env-Or 504.09.

Env-Or 505.13 Permit to Operate.

- (a) The owner or operator of a gasoline dispensing facility that is subject to this part and to RSA 146C shall have a valid permit to operate in accordance with RSA 146-C and Env-Wm 1401 or successor rules in subtitle Env-Or.
- (b) As part of the application for the permit to operate, the owner or operator of the stage II facility shall submit to the department the following:

(1) A completed stage II vapor recovery notification form; and

(2) The results of all required stage II tests in accordance with Env-Or 505.11(d).

(c) The permit to operate shall be prominently displayed in an area where it can be observed in the normal course of an inspection of the facility.

Env-Or 505.14 Compliance Schedule for Stage II Systems.

(a) The owner or operator of a gasoline dispensing facility that becomes subject to this part after the effective date of this part shall comply with the requirements of this part within one year after the date the facility becomes subject to stage II requirements.

(b) The owner or operator of a facility that meets the stage II applicability criteria specified in Env-Or 505.01 as of the date it initiates operations shall be in compliance with the requirements of this part prior to commencing operation.

PART Env-Or 506 NOTIFICATION AND RECORDKEEPING FOR GASOLINE DISPENSING FACILITIES

Env-Or 506.01 Required Throughput Reporting.

(a) The owner or operator of a gasoline dispensing facility that is subject to Env-Or 504 shall report throughput information in writing to the department within 30 days of the throughput equaling or exceeding 100,000 gallons per rolling 30-day period.

(b) The written submittal required by (a), above, may be submitted on paper, via email, or via fax.

Env-Or 506.02 Notification Requirements.

(a) The owner or operator of a gasoline dispensing facility that is subject to stage I requirements or both stage I and stage II requirements shall submit a “Vapor Recovery Notification Form” (VRN form) as described in Env-Or 506.03 to the department as follows:

(1) At least 30 days prior to any construction, installation, or significant modification that affects a stage I system or a stage II system, or both;

(2) Prior to scheduling a stage II test pursuant to Env-Or 505.11 or decommissioning a stage II system as specified in Env-Or 505.03(b)(1);

(3) At least 10 days prior to a change in use of a storage tank from gasoline to non-gasoline or non-gasoline to gasoline; and

(4) Within 10 days after a change of any of the items specified in Env-Or 506.03.

(b) If ownership of a gasoline dispensing facility that is subject to stage I requirements or both stage I and stage II requirements is transferred, the new owner shall submit a completed VRN form to the department within 10 days of the transfer.

(c) The owner or operator shall sign and date the VRN form.

(d) The signature of the owner or operator shall constitute:

(1) Certification that the information on the VRN form is true and correct to the best of the individual's knowledge and belief; and

(2) Acknowledgement that the individual is subject to the penalties specified in RSA 641:3 for making unsworn false statements.

(e) The department shall, within 30 days of receipt of the VRN form, inform the individual who submitted the VRN form of any deficiencies in the notification.

(f) If the department is not able to determine the effectiveness or design of the equipment or system being constructed, installed, or significantly modified, the department shall request additional information in order to make such determination.

Env-Or 506.03 Vapor Recovery Notification Form. The Vapor Recovery Notification Form (VRN form) required to be submitted by Env-Or 506.02 shall require the following information:

(a) The name, physical address, mailing address, main telephone number, main fax number, and site number of the gasoline distribution facility;

(b) The name, mailing address, daytime telephone number, fax number, and email address of each owner of the gasoline distribution facility;

(c) The name, mailing address, daytime telephone number, fax number, and email address of the individual who is responsible for:

(1) The stage I system at the gasoline distribution facility; and

(2) If applicable, the stage II system at the gasoline distribution facility;

(d) A description of all stage I equipment at the gasoline distribution facility, including but not limited to the 2-point or coaxial stage I system and, if there is a 2-point system, a statement as to whether the dry break adaptor is located on the manifold or on the tank;

(e) For stage II gasoline distribution facilities:

(1) A description of all stage II equipment, including but not limited to, the type of system and the type of vapor assist; and

(2) Gasoline dispenser information, including but not limited to the number of dispensers and number of nozzles at each dispenser;

(f) The number of gasoline storage tanks at the gasoline distribution facility and for each tank, the size of the tank and the grade of gasoline contained in the tank;

(g) The date when construction, installation, or significant modification of any stage I or stage II equipment at the gasoline distribution facility occurred.

Env-Or 506.04 Recordkeeping Requirements for Gasoline Dispensing Facilities. The owner or operator of a gasoline dispensing facility that is subject to this chapter shall:

(a) Maintain the following records such that they are available during a department or EPA inspection:

(1) A copy of this chapter;

(2) The records of each monthly maintenance inspection conducted over the prior 3 years as required by Env-Or 504.05 or Env-Or 505.08, as applicable;

(3) The records of each annual maintenance inspection conducted over the prior 3 years as required by Env-Or 504.06 or Env-Or 505.09, as applicable;

(4) A description of all repair work completed as a result of any of the inspections included in (2) or (3), above;

(5) All other information regarding equipment failures, repairs, and maintenance over the prior 3 years that is not included in (4), above; and

(6) A copy of the manual entitled, "New Hampshire Department of Environmental Services Gasoline Vapor Recovery Test Procedures and Inspection Manual";

(b) Provide the following records upon request of the department or EPA:

(1) All records of installation of stage I equipment and, if applicable, of stage II equipment;

(2) Bulk liquid receipts;

(3) A copy of each VRN form as described in Env-Or 506.03 completed for the facility; and

(4) For stage II systems:

a. A copy of the facility's current permit to operate, as required by Env-Or 505.13; and

b. Each daily balance system maintenance performed as specified in Env-Or 505.07, if applicable; and

(c) Retain the records identified in (a) and (b), above, as specified in table 500-2, below:

Table 500-2: Required Record Retention Periods

Record Required by Env-Or 506.04	Description of Record	Required Retention Period
(a)(1)	The vapor recovery rules, Env-Or 500	
(a)(6)	The “New Hampshire Department of Environmental Services Gasoline Vapor Recovery Test Procedures and Inspection Manual”	Duration of the operating life of the facility
(b)(2)	Bulk liquid receipts	Until such time as the equipment is no longer on-site and a site investigation has determined that the equipment did not cause or contribute to a discharge of gasoline.
(a)(2)	A record of each monthly maintenance inspection as specified in Env-Or 504.05 or Env-Or 505.08, as applicable	3 years from date of receipt or completion, as applicable, provided that if the owner or operator has been notified of a pending inquiry into the integrity of the gasoline storage tank(s) at the facility, then until such time as the stage I or stage II equipment, as applicable, is no longer on-site and a site investigation has determined that the equipment did not cause or contribute to a discharge of gasoline.
(a)(3)	A record of each annual maintenance inspection as specified in Env-Or 504.06 or Env-Or 505.09, as applicable	
(a)(4)	A description of all repair work completed as a result of any of the inspections included in (a)(2) or (a)(3)	
(a)(5)	All other information that is relevant to equipment failures, repairs, and maintenance that is not included in (a)(4)	
(b)(1)	All records of installation of stage I equipment and, if applicable, of stage II equipment	
(b)(4)b.	For stage II systems: Each daily balance system maintenance performed as specified in Env-Or 505.07, if applicable	
(b)(3)	A copy of each Vapor Recovery Notification Form as described in Env-Or 506.03 completed for the facility	
(b)(4)a.	For stage II systems: A copy of the facility’s current permit to operate, as required by Env-Or 505.13	

PART Env-Or 507 STAGE I REQUIREMENTS FOR CARGO TRUCKS

Env-Or 507.01 Required Equipment for Cargo Trucks.

- (a) The owner or operator of a cargo truck that meets the criteria specified in Env-Or 501.02(d) shall install and maintain a stage I system to serve the cargo truck that is a certified vapor recovery system.
- (b) All hoses and stage I equipment on the cargo truck shall be specifically manufactured for use in transferring gasoline or otherwise certified by the manufacturer as compatible with gasoline.
- (c) The cargo truck shall be connected during gasoline delivery to a gasoline storage tank using:
 - (1) For a coaxial system, a separate coaxial coupling with one vapor return hose used for every fill hose in service;
 - (2) For a 2-point system where the tanks are connected with a manifold, a minimum of one vapor return hose used for every 2 fill hoses in service; and
 - (3) For a 2-point system where the tanks are not connected with a manifold, a separate vapor recovery connection at each tank being filled.

Env-Or 507.02 Maintenance Requirements for Cargo Trucks. The owner or operator of a cargo truck that is subject to this part shall maintain stage I equipment as specified by the manufacturer and so as to be leak-free and vapor tight.

Env-Or 507.03 Operational Requirements for Cargo Trucks.

- (a) The owner or operator of a cargo truck that is subject to this part shall operate the stage I system to recover at least 95% of all gasoline vapors released from the gasoline tank to which the fuel is being delivered during unloading operations at the facility or to be at least as efficient as the manufacturer's design efficiency, whichever is higher. This standard shall apply to each cargo truck during each applicable gasoline delivery.
- (b) During loading of gasoline at a bulk gasoline loading terminal and during loading or unloading of gasoline at a bulk gasoline plant, the owner or operator of the cargo truck shall verify that the cargo truck has a back pressure that does not exceed:
 - (1) A pressure setting of 18.0 inches water column pressure; and
 - (2) A vacuum setting of 5.9 inches water column vacuum.
- (c) During unloading of gasoline at a gasoline dispensing facility, the owner or operator of the cargo truck shall verify that the cargo truck has a back pressure that does not exceed a vacuum setting of 5.9 inches water column vacuum.

(d) If a cargo truck does not meet the requirements specified in (b) or (c), above, as applicable, the owner or operator of the cargo truck shall repair and retest the truck within 15 days.

(e) The owner or operator of a cargo truck shall securely fasten all hatches on the truck except when access is needed to take a measurement of gasoline level or perform maintenance activities.

(f) No person shall unload gasoline from any cargo truck to any gasoline storage tank at any gasoline dispensing facility that is subject to Env-Or 504 unless the owner or operator of the facility has installed and is maintaining as operational a certified stage I vapor recovery system.

(g) No person shall deliberately, recklessly, or negligently vent any vapors captured by the stage I system serving a cargo truck to the atmosphere.

(h) No person shall deliberately, recklessly, or negligently mishandle gasoline being loaded to or unloaded from a cargo truck such that the gasoline could evaporate into the atmosphere. For purposes of this section, mishandling includes but is not limited to spilling, discarding into a sewer or storm drain, or storing in an open container.

Env-Or 507.04 Testing Requirements for Cargo Trucks. The owner or operator of a cargo truck that is subject to this part shall:

(a) Conduct an annual certification test in accordance with 40 CFR §63.425(e); and

(b) If the cargo truck does not meet the applicable parameters specified in 40 CFR §63.425(e), undertake such repairs as are necessary and retest.

Env-Or 507.05 Monitoring for Cargo Trucks. The department shall inspect a cargo truck to determine whether the truck is leak tight and vapor tight either:

(a) Upon receipt of information that supports a reasonable conclusion that the truck might not be leak tight and vapor tight, including visual and olfactory information; or

(b) Pursuant to a routine inspection.

Env-Or 507.06 Treatment of Vapor Requirements for Cargo Trucks. The owner or operator of a cargo truck that is subject to this part shall dispose of the vapors at a bulk terminal equipped with a certified stage I vapor recovery system, using the vapor collection system and vapor destruction methods described in Env-A 1217.06(c).

Env-Or 507.07 Recordkeeping Requirements for Cargo Trucks.

(a) The owner or operator of a cargo truck that is subject to this part shall maintain in the cargo truck at all times the following:

(1) Documentation that the cargo truck has met the requirements of Env-Or 507.04;

(2) Test results for both the pressure and vacuum tests required by Env-Or 507.04; and

(3) Proof of compliance and the date of all tests conducted in accordance with the stage I testing requirements for cargo trucks as stated in this part, which shall be displayed on the cargo truck.

(b) The driver of a cargo truck that is subject to this part shall provide the documents listed in (a), above, upon request of the department or EPA for inspection and copying.

PART Env-Or 508 WAIVERS

Env-Or 508.01 Applicability. An owner or operator who wishes to obtain a waiver from any rule in this chapter shall request the waiver as specified in Env-Or 508.02.

Env-Or 508.02 Waiver Requests.

(a) Each request for a waiver shall be filed in writing by the owner or operator who is seeking the waiver.

(b) The person requesting the waiver shall provide the following information to the department:

(1) The name, mailing address, and daytime telephone number of the requestor and, if available, a fax number and e-mail address of the requestor;

(2) As applicable, the name, physical address, and site number of the facility to which the waiver request relates, or the registration number of the cargo truck to which the waiver would apply;

(3) The specific rule section or paragraph for which a waiver is being requested;

(4) A full explanation of why a waiver is being requested, including an explanation of the consequences of complying with the rule as written;

(5) Whether the need for the waiver is temporary, and if so, the estimated length of time that the waiver will be needed;

(6) If applicable, a full explanation of the alternative that is proposed to be substituted for the requirement in the rule, including written documentation or data, or both, to support the alternative; and

(7) A full explanation of why the requestor believes that having the waiver granted will meet the criteria in Env-Or 508.03.

(c) The requestor shall sign and date the request.

(d) The signature shall constitute certification that:

(1) The information provided is true, complete, and not misleading to the knowledge and belief of the signer; and

(2) The signer understands that any waiver granted based on false, incomplete, or misleading information shall be subject to revocation.

(e) The department shall transmit a copy of each waiver request filed in compliance with (a) through (c), above, to EPA within 5 working days of its receipt.

Env-Or 508.03 Waiver Criteria.

(a) Subject to (b) and (c), below, the department shall grant a waiver if:

(1) Granting a waiver will not result in an adverse impact on the environment, public health, or public safety that is more significant than that which would result from complying with the rule; and

(2) One or more of the following conditions is satisfied:

a. Granting a waiver is consistent with the intent and purpose of the rule being waived; or

b. Strict compliance with the rule will provide no benefit to the public or the environment.

(b) No waiver shall be granted if the effect of the waiver would be to waive or modify any state statute, unless a waiver is expressly allowed by the statute that would be waived.

(c) No waiver shall be granted if the effect of the waiver would be to waive or modify any federal requirement, unless the federal statute or regulation that establishes the requirement allows for waivers and EPA does not object to the waiver being granted.

Env-Or 508.04 Decision on Waiver Requests; Conditions.

(a) The department shall notify the requestor of the decision in writing within 60 days of receipt of a request that meets the requirements of Env-Or 508.02.

(b) If the request is denied, the department shall identify the specific reason(s) for the denial.

(c) The department shall include such conditions in a waiver as are necessary to ensure that the criteria of Env-Or 508.03 will be met.

(d) If the need for a waiver is temporary, the waiver shall specify the date on which it will expire.

PART Env-Or 509 REFERENCE STANDARDS

Env-Or 509.01 Reference Standards. A vapor recovery system for an underground or aboveground gasoline storage tank or cargo truck shall be designed, installed, tested, and certified for use in accordance with one or more of the applicable reference standards listed below:

(a) PEI/RP 300-09, “Recommended Practices for Installation and Testing of Vapor Recovery Systems at Vehicle Fueling Sites”, Petroleum Equipment Institute, 2009 edition; and

(b) The CARB executive orders, approval letters, and test methods set forth in table 500-3, below:

Table 500-3: CARB Reference Standards

CARB ID	Description	Date
G – 70 – 2 – G	Modification of the Certification of the OPW Model A-7 2 Point Vapor Recovery System for Underground Storage Tanks at Gasoline Service Stations	09/18/84
G – 70 – 4 – A	Modification of the Certification of the Emco-Wheaton Coaxial Vapor Recovery System for Underground Storage Tanks at Gasoline Service Stations	08/23/77
G – 70 – 5	Modification of the Certification of the Parker Coaxial Vapor Recovery System for Underground Storage Tanks at Gasoline Service Stations	05/06/93
G – 70 – 6	Modification of the Certification of the OPW System Y Type 2, Vapor Recovery System for Underground Storage Tanks at Gasoline Service Stations	04/26/77
G – 70 – 7 – AD	Certification of the Hasstech Model VCP-2 and VCP 2A Phase II Vapor Recovery System	03/22/93
G – 70 – 8	Modification of the Certification of the Chevron Vapor Recovery System for Underground Storage Tanks at Gasoline Service Stations	07/13/77
G – 70 – 9 – A	Modification of the Certification of the “Teed” Vapor Recovery System for Existing Underground Storage Tanks Facilities with Throughputs less than 9,000 Gallons per Month	11/18/77
G – 70 – 10 – A	Modification of the Certification of the Vapor Recovery System for Delivery Tanks Equipped for Bottom Loading	11/18/77
G – 70 – 14 – AA	Recertification of the Red Jacket Aspirator Assist Phase II Vapor Recovery System	02/28/83
G – 70 – 17 – AD	Modification of the Certification of the Emco Wheaton Balance Phase II Vapor Recovery System	05/06/93
G – 70 – 18 – C	Modification of the Certification of the Shell Model 75B1 and 75B1-R3 Service Station Phase II Vapor Recovery System	08/28/79
G – 70 – 20	Modification of the Certification of the Texaco Stage I Vapor Recovery System for Underground Storage Tanks at Gasoline Service Stations	08/21/78
G – 70 – 23 – AC	Recertification of the Exxon Balance Phase II Vapor Recovery System	04/29/96
G – 70 – 25 – AA	Recertification of the Atlantic Richfield Balance Phase II Vapor Recovery System	02/08/83

CARB ID	Description	Date
G – 70 – 33 – AB	Certification of the Modified Hirt VCS-200 Vacuum Assist Phase II Vapor Recovery System	03/09/84
G – 70 – 34 – A	Modification of the Certification of the Parker Hannifin F428 Vapor Recovery Adaptor for Military Delivery Tanks to Include the Parker Hannifin F428A	08/13/79
G – 70 – 36 – AD	Modification of the Certification of the OPW Balance Phase II Vapor Recovery System	09/18/92
G – 70 – 37 – B	Modification of the Certification of the Chevron Balance Phase II Vapor Recovery System with OPW Nozzles for Service Stations	01/22/80
G – 70 – 38 – AB	Recertification of the Texaco Balance Phase II Vapor Recovery System	12/19/90
G – 70 – 47 – B	Modification of the Certification of the OPW Coaxial Vapor Recovery System for Underground Storage Tanks at Gasoline Service Stations	09/18/84
G – 70 – 48 – AA	Recertification of the Mobile Oil Balance Phase II Vapor Recovery System	02/08/83
G – 70 – 49 – AA	Recertification of the Union Balance Phase II Vapor Recovery System	02/08/83
G – 70 – 50	Certification of the Vapor Recovery Kit for M857, M967, M969, and M970 Military Delivery Tanks	12/05/79
G – 70 – 52 – AM	Certification of the Components for Red Jacket, Hirt, and Balance Phase II Vapor Recovery System	11/19/09
G – 70 – 53 – AA	Recertification of the Chevron Balance Phase II Vapor Recovery System	02/08/83
G – 70 – 70 – AC	Certification of the Healy Phase II Vapor Recovery System for Service Stations	06/23/92
G – 70 – 77	Certification of the OPW Repair/Replacement Parts and Modification of the Certification of the OPW Balance Phase II Vapor Recovery System	09/15/82
G – 70 – 78	Certification of the E-Z Flo Nozzle Company Rebuilt Vapor Recovery Nozzles and Vapor Recovery Components	05/20/83
G – 70 – 97 – A	Stage I Vapor Recovery Systems for Underground Gasoline Tanks at Service Stations	12/09/85
G – 70 – 101 – B	Recertification of the E-Z Flo Model 3006 and 3007 Vapor Recovery Nozzles and Use of E-Z Flo Components with OPW Models 11VC and 11VE Vapor Recovery Nozzles	11/15/85
G – 70 – 102 – A	Certification of a Phase I Vapor Recovery System for Aboveground Storage Tanks with less than 40,000 Gallons Capacity for Gasoline or Gasoline/Methanol Blended Fuels	05/25/93
G – 70 – 106	Adoption of “Test Procedure Gasoline Cargo Tanks” as an Equivalent Method for the Year-round Performance Standards for Gasoline Cargo Tanks	01/27/86
G – 70 – 107	Certification of the rainbow Petroleum Products Model RA3003, RA3005, RA3006, and RA3007 Vapor Recovery Nozzles and Vapor Recovery Components	05/15/86

CARB ID	Description	Date
G – 70 – 110	Certification of the Stage I and Stage II Vapor Recovery Systems for Methanol Fueling Facilities	01/20/87
G – 70 – 116 – F	ConVault Aboveground Tank Vapor Recovery System	11/30/95
G – 70 – 118 – AB	Certification of the Amoco V-1 Vapor Recovery System	03/31/95
G – 70 – 125 – AA	Modification of the Certification of the Husky Model V Phase II Vapor Recovery Nozzle	03/16/93
G – 70 – 127	Certification of the OPW Model 111-V Phase II Vapor Recovery Nozzle	08/16/90
G – 70 – 128	Bryant Fuel Cell Aboveground Tank Vapor Recovery System	08/27/90
G – 70 – 130 – A	Petrovault Aboveground Tank Vapor Recovery System	02/26/93
G – 70 – 131 – A	Tank Vault Aboveground Tank Vapor Recovery System	03/17/92
G – 70 – 132 – A	Supervault Aboveground Tank Vapor Recovery System	10/16/90
G – 70 – 132 – B	Supervault Aboveground Tank Vapor Recovery System	05/16/95
G – 70 – 134	Certification of the EZ Flo Rebuilt A-4000 Series and 11V-Series Vapor Recovery Nozzle	12/21/90
G – 70 – 136	FireSafe Aboveground Tank Vapor Recovery System	04/15/91
G – 70 – 137	FuelSafe Aboveground Tank Vapor Recovery System	10/4/91
G – 70 – 139	Addition to the Certification of the Hirt Model VCS-200 Phase II Vapor Recovery System	03/17/92
G – 70 – 140 – A	Integral Phase I and II Aboveground Configurations with the Healy Phase II Vapor Recovery System	07/1/92
G – 70 – 142 – B	Phase I Vapor Recovery System for Aboveground Gasoline Storage Tanks	09/09/94
G – 70 – 143	P/T Vault Aboveground Tank Vapor Recovery System	08/07/92
G – 70 – 147 – A	Certification of the New United Motors Manufacturing, Incorporated Phase II Vapor Recovery System at the Fremont, California Assembly Plant	07/11/96
G – 70 – 148 – A	Lube Cube Aboveground Tank Vapor Recovery System	05/04/95
G – 70 – 150 – AE	Modification to the Certification of the Marconi Commerce Systems Inc. (MCS) “Formerly Gilbarco” VaporVac Phase II Vapor Recovery System	07/12/00
G – 70 – 152	Moiser Brothers Tanks and Manufacturing Aboveground Tank Vapor Recovery System	10/31/93
G – 70 – 153 – AD	Modification to the Certification of the Dresser/Wayne WayneVac Phase II Vapor Recovery System	04/03/00
G – 70 – 154 – AA	Modification to the Certification of Tokheim MaxVac Phase II Vapor Recovery System	06/10/97
G – 70 – 155	Petroleum Marketing Aboveground Tank Vapor Recovery System	03/12/94
G – 70 – 156	Ecovault Aboveground Tank Vacuum Assist Vapor Recovery System	05/23/94
G – 70 – 157	Ecovault Aboveground Tank Balance Vapor Recovery System	05/23/94

CARB ID	Description	Date
G – 70 – 158 – A	Firesafe Aboveground Tank Vapor Recovery System	05/24/95
G – 70 – 159 – AB	Modification to the Certification of the Saber Nozzle for Use with the Gilbarco VaporVac Phase II Vapor Recovery System	07/17/95
G – 70 – 160	Above Ground Tank Vault Vapor Recovery System	11/09/94
G – 70 – 161	Hoover Containment Systems, Incorporated Fuelmaster Aboveground Tank Vapor Recovery System	11/30/94
G – 70 – 162 – A	Steel Tank Institute Fireguard Aboveground Tank Vapor Recovery System	02/15/95
G – 70 – 163 – AA	Certification of the OPW VaporEZ Phase II Vapor Recovery System	09/04/96
G – 70 – 164 – AA	Modification to the Certification of the Hasstech VCP-3A Vacuum Assist Phase II Vapor Recovery System	12/10/96
G – 70 – 165	Healy Vacuum Assist Phase II Vapor Recovery System	04/20/95
G – 70 – 167	EnviroVault Aboveground Tank Vapor Recovery System	01/09/96
G – 70 – 168	Bryant Fuel Systems Phase I Vapor Recovery System	10/15/95
G – 70 – 169 – AA	Modification to the Certification of the Franklin Electric INTELLIVAC Phase II Vapor Recovery System	08/11/97
G – 70 – 170	Certification of the EZ-flo Rebuilt 5005 and 5015 Nozzles for use with the Balance Phase II Vapor Recovery System	02/22/96
G – 70 – 175	Hasstech VCP-3A Vacuum Assist Phase II Vapor Recovery System for Aboveground Tank Systems	04/18/96
G – 70 – 177 – AA	Modification to the Certification of the Hirt VCS400-7 Vacuum Assist Phase II Vapor Recovery System	06/22/00
G – 70 – 179	Certification of the Catlow ICVN-V1 Vacuum Assist Phase II Vapor Recovery System	07/02/97
G – 70 – 180	Order Revoking Certification of Healy Phase II Vapor Recovery Systems for Gasoline Dispensing Facilities	04/17/97
G – 70 – 183 – AA	Language Correction in Existing Executive Order G-70-183 (Healy/Franklin System)	06/29/01
G – 70 – 186	Certification of the Healy Model 400 ORVR Vapor Recovery System	10/26/98
G – 70 – 187	Healy Model 400 ORVR Vapor Recovery System for Aboveground Tank Systems	09/13/99
G – 70 – 188	Certification of the Catlow ICVN Vapor Recovery Nozzle System for use with the Gilbarco VaporVac Vapor Recovery System	05/18/99
G – 70 – 190	Guardian Containment, Corporation Armor Cast Aboveground Tank Vapor Recovery System	10/08/99
G – 70 – 191	Certification of the Healy Model 600 ORVR/800 Nozzle With The Healy/Franklin VP-1000 Vapor Recovery System (Healy ORVR Phase II Vapor Recovery System)	08/08/99
G – 70 – 191 – AA	Language Correction in Existing Executive Order G-70-191 (Healy Model 600 ORVR/800)	09/28/06

CARB ID	Description	Date
G – 70 – 192	Certification of the Healy Model 400 ORVR Vapor Recovery System for Aboveground Tank Systems	11/24/99
G – 70 – 193	Certification of the Hill-Vac Vapor Recovery System for Cargo Tank Motor Vehicle Fueling Systems	11/07/07
G – 70 – 194	Containment Solutions Hoover Vault Aboveground Tank Vapor Recovery System	05/11/00
G – 70 – 195	Cretex Companies, Inc FuelVault Aboveground Tank Vapor Recovery System	03/31/00
G – 70 – 196	Certification of the Saber Technologies, LLC SaberVac VR Phase II Vapor Recovery System	12/30/00
G – 70 – 197	Synchrotek Fastflo 3 Phase II Vapor Recovery System	06/25/01
G – 70 – 198	Continued Use of Vapor Recovery Systems for which Certification is Terminated by the Adoption of New Standards	06/04/01
G – 70 – 199 – AH	Certification of the Gasoline Dispensing Nozzles to the Liquid Retention of 350 milliliters per 1,000 Gallons Dispensed	01/23/02
G – 70 – 200	Oldcastle Aboveground Below – Grade Fuel Vault with Balance Vapor Recovery System and Buried Vapor Return Piping	04/22/02
G – 70 – 201	Oldcastle Aboveground Below – Grade Fuel Vault with Balance Vapor Recovery System and Trenched Vapor Return Piping	04/22/02
G – 70 – 202	Oldcastle Aboveground Below – Grade Fuel Vault with Gilbarco VaporVac Phase II Recovery System and Trenched Vapor Return Piping	04/22/02
Approval Letter #07-08	Catlow Model CTMVA Cam Twist Breakaway	11/07/07
VR – 101 – B	Phil-Tite Phase I Enhanced Vapor Recovery System with Ball Float Overfill Prevention	07/12/02
VR – 102 – A	OPW Phase I Vapor Recovery System	10/10/02
VR-203-A	Vapor Systems Technologies, Inc. Phase II Enhanced Vapor Recovery (EVR) Not Including In-Station Diagnostics (ISD)	11/05/07
Approval Letter #09-02	Reinstatement Of Enhanced Vapor Recovery (EVR) Phase II Balance Components As The Only Approved Replacement Components For Balance Phase II Systems	06/01/09
TP-201.1E	Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves	10/08/03
CP-201	Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities	02/09/05
TP-201.3A	Determination of 5 Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities	04/12/96
TP-201.4	Dynamic Back Pressure	07/03/02
TP-201.5	Air to Liquid Volume Ratio	02/01/01

Appendix A: Incorporation by Reference Information

Rule Section	Title	Dated	Obtain at:
Env-Or 504.09(a) and Env-Or 509.01(b)	CARB TP 201.1E Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves	10-03-2008	http://www.arb.ca.gov/testmeth/vol2/tp201.1e_Oct2003.pdf - no cost
Env-Or 504.10(a); Env-Or 504.12(c) and Env-Or 509.01(b)	CARB TP 201.3A Determination of 5 Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities	04-12-96	http://www.arb.ca.gov/testmeth/vol2/tp201.3a_Apr1996.pdf - no cost
Env-Or 505.03(b) and Env-Or 509.01(a)	Recommended Practices for Installation and Testing of Vapor-Recovery Systems at Vehicle-Fueling Sites, PEI RP 300-09, Section 14, Decommissioning Stage II Vapor Recovery Piping	2009	http://pei.org/PublicationsResources/RecommendedPracticesExams/RP300/tabid/101/Default.aspx - purchase for \$95.00.
Env-Or 505.12(c) and Env-Or 509.01(b)	CARB TP-201.4 Dynamic Back Pressure	07-03-2002	http://www.arb.ca.gov/testmeth/vol2/tp201.4_070302.pdf - no cost
Env-Or 505.12(c) and Env-Or 509.01(b)	CARB TP-201.5 Air to Liquid Volume Ratio	02-01-2001	http://www.arb.ca.gov/testmeth/vol2/tp201_5.pdf - no cost
Env-Or 505.12(c) and Env-Or 509.01(b)	G-70-165 Certification of the Healy Vacuum Assist Phase II Vapor Recovery System with the Model 600 Nozzle	04-20-1995	http://www.arb.ca.gov/vapor/eos/eo165/g70165.pdf - no cost
Env-Or 505.12(c) and Env-Or 509.01(b)	G-70-186 Certification of the Healy Model 400 ORVR Vapor Recovery System	10-26-1998	http://www.arb.ca.gov/vapor/eos/eo186/g70186.pdf - no cost
Env-Or 505.12(c) and Env-Or 509.01(b)	G-70-187 Certification of the Healy Model 400 ORVR Vapor Recovery System for Aboveground Tank Systems	09-13-1999	http://www.arb.ca.gov/vapor/above/g70187.pdf - no cost

Rule Section	Title	Dated	Obtain at:
Env-Or 505.12(c) and Env-Or 509.01(b)	G-70-191 Certification of the Healy Model 600 ORVR/800 Nozzle With The Healy/Franklin VP-1000 Vapor Pump Phase II Vapor Recovery System (Healy ORVR Phase II Vapor Recovery System)	08-08-1999	http://www.arb.ca.gov/vapor/eos/eo-191/eo191/191.pdf - no cost
Env-Or 509.01(b)	G – 70 – 2 – G Modification of the Certification of the OPW Model A-7 2 Point Vapor Recovery System for Underground Storage Tanks at Gasoline Service Stations	09-18-1984	http://www.arb.ca.gov/vapor/eos/eo-2/2g.pdf - no cost
Env-Or 509.01(b)	G – 70 – 4 – A Modification of the Certification of the Emco-Wheaton Coaxial Vapor Recovery System for underground Storage Tanks at Gasoline Service Stations	08-23-1977	http://www.arb.ca.gov/vapor/eos/eo-4/4a.pdf - no cost
Env-Or 509.01(b)	G – 70 – 5 Modification of the Certification of the Parker Coaxial Vapor Recovery System for Underground Storage Tanks at Gasoline Service Stations	05-06-1993	http://www.arb.ca.gov/vapor/eos/g705.pdf - no cost
Env-Or 509.01(b)	G – 70 – 6 Modification of the Certification of the OPW System Y Type 2, Vapor Recovery System for Underground Storage Tanks at Gasoline Service Stations	04-26-1977	http://www.arb.ca.gov/vapor/eos/g706.pdf - no cost
Env-Or 509.01(b)	G – 70 – 7 – AD Certification of the Hasstech Model VCP-2 and VCP 2A Phase II Vapor Recovery System	03-22-1993	http://www.arb.ca.gov/vapor/eos/eo-7/7ad.pdf - no cost
Env-Or 509.01(b)	G – 70 – 8 Relating to the Certification of the Chevron Vapor Transfer System for Use on Delivery Tanks	07-13-1977	http://www.arb.ca.gov/vapor/eos/g708.pdf - no cost
Env-Or 509.01(b)	G – 70 – 9 – A Modification of the Certification of the “Teed” Vapor Recovery System for Existing Underground Storage Tank Facilities with Throughputs less than 9,000 Gallons per Month	11-18-1977	http://www.arb.ca.gov/vapor/eos/eo-9/9a.pdf - no cost

Rule Section	Title	Dated	Obtain at:
Env-Or 509.01(b)	G – 70 – 10 – A Relating to the Modification of the Certification of the Vapor Recovery System for Delivery Tanks Equipped for Bottom Loading	11-18-1977	http://www.arb.ca.gov/vapor/eos/eo-10/10a.pdf - no cost
Env-Or 509.01(b)	G – 70 – 14 – AA Recertification of the Red Jacket Aspirator Assist Phase II Vapor Recovery System	02-08-1983	http://www.arb.ca.gov/vapor/eos/eo-14/14aa.pdf - no cost
Env-Or 509.01(b)	G – 70 – 17 – AD Modification of Certification of the Emco Wheaton Balance Phase II Vapor Recovery System	05-06-1993	http://www.arb.ca.gov/vapor/eos/eo17/g7017ad.pdf - no cost
Env-Or 509.01(b)	G – 70 – 18 – C Relating to the Modification of the Certification of the Shell Model 75B1 and 75B1-R3 Service Station Phase II Vapor Recovery Systems	08-28-1979	http://www.arb.ca.gov/vapor/eos/eo-18/18c.pdf - no cost
Env-Or 509.01(b)	G–70–20 Related to the Certification of the Texaco Phase I Vapor Recovery System for Underground Storage Tanks at Gasoline Service Stations	08-21-1978	http://www.arb.ca.gov/vapor/eos/g7020.pdf - no cost
Env-Or 509.01(b)	G–70–23– C Modification to the Certification of the Exxon Balance Phase II Vapor Recovery System	04-29-1996	http://www.arb.ca.gov/vapor/eos/eo-23/g7023ac.pdf - no cost
Env-Or 509.01(b)	G–70–25–AA Recertification of the Atlantic Richfield Balance Phase II Vapor Recovery System	02-08-1983	http://www.arb.ca.gov/vapor/eos/eo25/g7025aa.pdf - no cost
Env-Or 509.01(b)	G–70–33–AB Certification of the Modified Hirt VCS-200 Vacuum Assist Phase II Vapor Recovery System	03-09-1984	http://www.arb.ca.gov/vapor/eos/eo-33/33ab.pdf - no cost
Env-Or 509.01(b)	G–70–34–A Relating to the Modification of the Certification of the Parker Hannifin F428 Vapor Recovery Adapter for Military Delivery Tanks To Include The Parker Hannifin F428A	08-13-1979	http://www.arb.ca.gov/vapor/eos/eo-34/34a.pdf - no cost

Rule Section	Title	Dated	Obtain at:
Env-Or 509.01(b)	G-70-36-AD Modification of Certification of the OPW Balance Phase II Vapor Recovery System	09-18-1992	http://www.arb.ca.gov/vapor/eos/eo36/g7036ad.pdf - no cost
Env-Or 509.01(b)	G-70-37-B Relating to the Modification of the Certification of the Chevron Balance Phase II Vapor Recovery System with OPW Nozzles for Service Stations	01-22-1980	http://www.arb.ca.gov/vapor/eos/eo-37/37b.pdf - no cost
Env-Or 509.01(b)	G-70-38- AB Relating to Certification of the Texaco Balance Phase II Vapor Recovery System	12-19-1990	http://www.arb.ca.gov/vapor/eos/eo-38/38ab.pdf - no cost
Env-Or 509.01(b)	G-70-47-B Relating to the Modification of the Certification of the OPW Coaxial Vapor Recovery System for Underground Storage Tanks at Gasoline Service Stations	09-14-1984	http://www.arb.ca.gov/vapor/eos/eo-47/47b.pdf - no cost
Env-Or 509.01(b)	G-70-48-AA Recertification of the Mobil Oil Balance Phase II Vapor Recovery System	02-08-1983	http://www.arb.ca.gov/vapor/eos/eo-48/48aa.pdf - no cost
Env-Or 509.01(b)	G-70-49-AA Recertification of the Union Balance Phase II Vapor Recovery System	02-08-1983	http://www.arb.ca.gov/vapor/eos/eo-49/49aa.pdf - no cost
Env-Or 509.01(b)	G-70-50 Relating to the Certification of the Vapor Recovery Kit for M857, M967, M969, and M970 Military Delivery Tanks	12-05-1979	http://www.arb.ca.gov/vapor/eos/g7050.pdf - no cost
Env-Or 509.01(b)	G-70-52-AM Certification of Components for Red Jacket, Hirt, and Balance Phase II Vapor Recovery System	10-04-1991	http://www.arb.ca.gov/vapor/eos/eo52/g7052am.pdf - no cost
Env-Or 509.01(b)	G-70-53-AA Recertification of the Chevron Balance Phase II Vapor Recovery System	02-08-1983	http://www.arb.ca.gov/vapor/eos/eo-53/53aa.pdf - no cost
Env-Or 509.01(b)	G-70-70-AC Modification of Certification of the Healy Phase II Vapor Recovery System for Gasoline Dispensing Facilities	06-23-1992	http://www.arb.ca.gov/vapor/eos/eo70/g7070ac.pdf - no cost

Rule Section	Title	Dated	Obtain at:
Env-Or 509.01(b)	G-70-77 Relating to the Certification of the OPW Repair/Replacement Parts and Modification of the Certification of the OPW Balance Phase II Vapor Recovery System	09-15-1982	http://www.arb.ca.gov/vapor/eos/g7077.pdf - no cost
Env-Or 509.01(b)	G-70-78 Certification of E-Z Flo Nozzle Company Rebuilt Vapor Recovery Nozzles and Vapor Recovery Nozzle Components	05-20-1983	http://www.arb.ca.gov/vapor/eos/g7078.pdf - no cost
Env-Or 509.01(b)	G-70-97-A Stage I Vapor Recovery Systems for Underground Gasoline Storage Tanks at Service Stations	12-09-1985	http://www.arb.ca.gov/vapor/eos/eo-97/97a.pdf - no cost
Env-Or 509.01(b)	G-70-101-B Certification of E-Z Flo Model 3006 and Model 3007 Vapor Recovery Nozzles and Use of E-Z Flo Components with OPW Models 11VC and 11VE Vapor Recovery Nozzles	11-15-1985	http://www.arb.ca.gov/vapor/eos/eo-101/101b.pdf - no cost
Env-Or 509.01(b)	G-70-102-A Certification of a Phase I Vapor Recovery System for Aboveground Storage Tanks with less than 40,000 Gallons Capacity for Gasoline or Gasoline/ Methanol Blended Fuels	05-25-1993	http://www.arb.ca.gov/vapor/above/g70102a.pdf - no cost
Env-Or 509.01(b)	G-70-106 Relating to the Adoption of "Test Procedure Gasoline Cargo Tanks" as an Equivalent Method for the Year-round Performance Standards for Gasoline Cargo Tanks	01-27-1986	http://www.arb.ca.gov/vapor/eos/g70106.pdf - no cost
Env-Or 509.01(b)	G-70-107 Certification of Rainbow Petroleum Products Model RA3003, RA3005, RA3006 and RA3007 Vapor Recovery Nozzles and Vapor Recovery Components	05-15-1986	http://www.arb.ca.gov/vapor/eos/g70107.pdf - no cost

Rule Section	Title	Dated	Obtain at:
Env-Or 509.01(b)	G-70-110 Certification of Stage I and II Vapor Recovery Systems for Methanol Fueling Facilities	01-20-1987	http://www.arb.ca.gov/vapor/eos/g70110.pdf - no cost
Env-Or 509.01(b)	G-70-116-F Certification of ConVault, Inc. Aboveground Filling/Dispensing Vapor Recovery System	11-30-1995	http://www.arb.ca.gov/vapor/above/g70116f.pdf - no cost
Env-Or 509.01(b)	G-70-118-AB Modification to the Certification of the Amoco Oil Company V-1 Bootless Nozzle Vapor Recovery System	03-31-1995	http://www.arb.ca.gov/vapor/eos/eo-118/eo118ab/g70118ab.pdf - no cost
Env-Or 509.01(b)	G-70-125-AA Modification to the Certification of the Phase II Vapor Recovery Nozzles	03-16-1993	http://www.arb.ca.gov/vapor/eos/eo125/125aa.pdf - no cost
Env-Or 509.01(b)	G-70-127 Certification of the OPW Model 111-V Phase II Balance Vapor Recovery Nozzle	08-16-1990	http://www.arb.ca.gov/vapor/eos/g70127.pdf - no cost
Env-Or 509.01(b)	G-70-128 Certification of Bryant Fuel Systems Aboveground Tank Filling/Dispensing Vapor Recovery System	08-27-1990	http://www.arb.ca.gov/vapor/above/g70128.pdf - no cost
Env-Or 509.01(b)	G-70-130-A Certification of Sannipoli Corporation Petro Vault Aboveground Tank Filling/Dispensing Vapor Recovery System	02-26-1993	http://www.arb.ca.gov/vapor/above/g70130a.pdf - no cost
Env-Or 509.01(b)	G-70-131-A Certification of Hallmark Industries Tank Vault Aboveground Tank Filling/Dispensing Vapor Recovery System	03-17-1992	http://www.arb.ca.gov/vapor/above/g70131a.pdf - no cost
Env-Or 509.01(b)	G-70-132-A Certification of Trusco Tank, Inc., Supervault Aboveground Tank Filling/Dispensing Vapor Recovery System	12-04-1992	http://www.arb.ca.gov/vapor/above/g70132a.pdf - no cost

Rule Section	Title	Dated	Obtain at:
Env-Or 509.01(b)	G-70-132-B Certification of Trusco Tank, Incorporated Supervault Aboveground Filling/Dispensing Vapor Recovery System	05-16-1995	http://www.arb.ca.gov/vapor/above/g70132b.pdf - no cost
Env-Or 509.01(b)	G-70-134 Certification of the EZ-flo Rebuilt A4000-Series and 11V-Series Vapor Recovery Nozzles	12-21-1990	http://www.arb.ca.gov/vapor/eos/g70134.pdf - no cost
Env-Or 509.01(b)	G-70-136 Certification of Ned Pepper, Incorporated FireSafe Aboveground Tank Filling/Dispensing Vapor Recovery System	04-15-1991	http://www.arb.ca.gov/vapor/above/g70136.pdf - no cost
Env-Or 509.01(b)	G-70-137 Certification of Ace Tank & Equipment Company Aboveground Tank Filling/Dispensing Vapor Recovery System "FuelSafe"	10-04-1991	http://www.arb.ca.gov/vapor/above/g70137.pdf - no cost
Env-Or 509.01(b)	G-70-139 Addition to the Certification of the Hirt Model VCS-200 Phase II Vapor Recovery System	03-17-1992	http://www.arb.ca.gov/vapor/g70139.pdf - no cost
Env-Or 509.01(b)	G-70-140-A Certification of Integral Phase I and Phase II Aboveground Tank Configurations Using the Healy Phase II Vapor Recovery System	07-01-1992	http://www.arb.ca.gov/vapor/above/g70140a.pdf - no cost
Env-Or 509.01(b)	G-70-142-B Certification of a Phase I Vapor Recovery System for Aboveground Gasoline Storage Tanks	09-09-1994	http://www.arb.ca.gov/vapor/above/142blegal.pdf - no cost
Env-Or 509.01(b)	G-70-143 Certification of Teichert Precast P/T Vault Aboveground Tank Filling/Dispensing Vapor Recovery System	08-07-1992	http://www.arb.ca.gov/vapor/above/g70143.pdf - no cost

Rule Section	Title	Dated	Obtain at:
Env-Or 509.01(b)	G-70-147-A Certification of the New United Motors Manufacturing, Incorporated Phase II Vapor Recovery System at the Fremont, California Assembly Plant	07-11-1996	http://www.arb.ca.gov/vapor/eos/eo-147/147a.pdf - no cost
Env-Or 509.01(b)	G-70-148-A Certification of Hoover Containment Systems, Inc. Lube Cube Aboveground Tank Filling/Dispensing Vapor Recovery System	05-04-1995	http://www.arb.ca.gov/vapor/above/g70148a.pdf - no cost
Env-Or 509.01(b)	G-70-150-AE Modification to the Certification of the Marconi Commerce Systems Inc. (MCS) "Formerly Gilbarco" VaporVac Phase II Vapor Recovery System	07-12-2000	http://www.arb.ca.gov/vapor/eos/eo-150/eo150ae/150ae-all.pdf - no cost
Env-Or 509.01(b)	G-70-152 Certification of Moiser Brothers Tanks and Manufacturing Protected Aboveground Gasoline Tank Filling/Dispensing Vapor Recovery System	10-31-1993	http://www.arb.ca.gov/vapor/above/g70152.pdf - no cost
Env-Or 509.01(b)	G-70-153-AD Modification to the Certification of the Dresser/Wayne WayneVac Phase II Vapor Recovery System	04-03-2000	http://www.arb.ca.gov/vapor/eos/eo-153/eo153ad/153ad-all.pdf - no cost
Env-Or 509.01(b)	G-70-154-AA Modification to the Certification of Tokheim MaxVac Phase II Vapor Recovery System	06-10-1997	http://www.arb.ca.gov/vapor/eos/eo-154/eo54aa/g70154aa.pdf - no cost
Env-Or 509.01(b)	G-70-155 Certification of Petroleum Marketing Services' Aboveground Tank Filling & Dispensing Vapor Recovery Systems	03-12-1994	http://www.arb.ca.gov/vapor/above/g70155.pdf - no cost

Rule Section	Title	Dated	Obtain at:
Env-Or 509.01(b)	G-70-156 Certification of RECoVAULT Incorporated Ecovault Aboveground Tank Filling & Dispensing Vacuum Assist Vapor Recovery System	05-23-1994	http://www.arb.ca.gov/vapor/above/g70156.pdf - no cost
Env-Or 509.01(b)	G-70-157 Certification of RECoVAULT Incorporated Ecovault Aboveground Tank Filling & Dispensing Balance Vapor Recovery System	05-23-1994	http://www.arb.ca.gov/vapor/above/g70157.pdf - no cost
Env-Or 509.01(b)	G-70-158-A Certification of San Luis Tank Piping Construction Co., Inc. Firesafe Aboveground Filling/Dispensing Vapor Recovery System	03-24-1995	http://www.arb.ca.gov/vapor/above/g70158a.pdf - no cost
Env-Or 509.01(b)	G-70-159-AB Modification to the Certification of the Saber Nozzle for Use with Specified Phase II Vapor Recovery Systems	07-17-1995	http://www.arb.ca.gov/vapor/eos/eo-59/159ab.pdf - no cost
Env-Or 509.01(b)	G-70-160 Certification of Above Ground Tank Vault Aboveground Tank Filling/Dispensing Vapor Recovery System	11-09-1994	http://www.arb.ca.gov/vapor/above/g70160.pdf - no cost
Env-Or 509.01(b)	G-70-161 Certification of Hoover Containment Systems, Incorporated Fuelmaster Aboveground Tank Filling/Dispensing Vapor Recovery System	11-30-1994	http://www.arb.ca.gov/vapor/above/g70161.pdf - no cost
Env-Or 509.01(b)	G-70-162-A Certification of Steel Tank Institute Fireguard Aboveground Tank Filling/Dispensing Vapor Recovery System	03-02-1998	http://www.arb.ca.gov/vapor/above/162-alegal.pdf - no cost
Env-Or 509.01(b)	G-70-163-AA Modification to the Certification of the OPW VaporEZ Phase II Vapor Recovery System	09-04-1996	http://www.arb.ca.gov/vapor/eos/eo-63/163aa.pdf - no cost

Rule Section	Title	Dated	Obtain at:
Env-Or 509.01(b)	G-70-164-AA Modification to Certification of the Hasstech VCP-3A Vacuum Assist Phase II Vapor Recovery System	12-10-1996	http://www.arb.ca.gov/vapor/eos/eo-64/164aa.pdf - no cost
Env-Or 509.01(b)	G-70-167 Certification of Bakersfield Tank Company Enviro-Vault Aboveground Filling/Dispensing Vapor Recovery System	01-09-1996	http://www.arb.ca.gov/vapor/above/g70167.pdf - no cost
Env-Or 509.01(b)	G-70-168 Bryant Fuel Systems Phase I Vapor Recovery Systems	10-15-1995	http://www.arb.ca.gov/vapor/above/g70168.pdf - no cost
Env-Or 509.01(b)	G-70-169-AA Modification to the Certification of the Franklin Electric INTELLIVAC Phase II Vapor Recovery System	08-11-1997	http://www.arb.ca.gov/vapor/eos/eo-69/169aa.pdf - no cost
Env-Or 509.01(b)	G-70-170 Certification of the EZ-flo Rebuilt 5005 and 5015 Nozzles for use with the Balance Phase II Vapor Recovery System	02-22-1996	http://www.arb.ca.gov/vapor/eos/g70170.pdf - no cost
Env-Or 509.01(b)	G-70-175 Certification of the Hasstech VCP-3A Vacuum Assist Phase II Vapor Recovery System for Aboveground Tank Systems	04-18-1996	http://www.arb.ca.gov/vapor/above/g70175.pdf - no cost
Env-Or 509.01(b)	G-70-177-AA Modification of the Certification of the Hirt VCS400-7 Vacuum Assist Phase II Vapor Recovery System	12-09-1999	http://www.arb.ca.gov/vapor/eos/eo-177/eo177aa/177aa-all.pdf - no cost
Env-Or 509.01(b)	G-70-179 Certification of the Catlow ICVN-VI Vacuum Assist Phase II Vapor Recovery System	07-02-1997	http://www.arb.ca.gov/vapor/eos/eo-179/g70179.pdf - no cost
Env-Or 509.01(b)	G-70-180 Order Revoking Certification of Healy Phase II Vapor Recovery Systems for Gasoline Dispensing Facilities	04-17-1997	http://www.arb.ca.gov/vapor/eos/g70180.pdf - no cost

Rule Section	Title	Dated	Obtain at:
Env-Or 509.01(b)	G-70-183-AA Relating to Language Correction in Existing Executive Order G-70-183 (Healy Systems, Inc.)	06-29-2001	http://www.arb.ca.gov/vapor/eos/eo-183/eo183aa/183aa.pdf - no cost
Env-Or 509.01(b)	G-70-188 Certification of the Catlow ICVN Vapor Recovery Nozzle System for use with the Gilbarco VaporVac Vapor Recovery System	05-18-1999	http://www.arb.ca.gov/vapor/eos/eo-188/g70188.pdf - no cost
Env-Or 509.01(b)	G-70-190 Certification of Guardian Containment, Corporation Armor Cast Aboveground Tank Filling/Dispensing Vapor Recovery System	10-08-1999	http://www.arb.ca.gov/vapor/above/g70190.pdf - no cost
Env-Or 509.01(b)	G-70-191-AA Relating to Language Correction in Existing Executive Order G-70-191 (Healy Systems, Inc.)	07-30-2001	http://www.arb.ca.gov/vapor/eos/eo-191/eo191aa/191aa.pdf - no cost
Env-Or 509.01(b)	G-70-192 Certification of the Healy Model 400 ORVR Nozzle for Existing Aboveground Storage Tank Systems	11-24-1999	http://www.arb.ca.gov/vapor/above/g70192.pdf - no cost
Env-Or 509.01(b)	G-70-193 Certification of the Hill-Vac Vapor Recovery System for Cargo Tank Motor Vehicle Fueling Systems	12-09-1999	http://www.arb.ca.gov/vapor/above/g70193all.pdf - no cost
Env-Or 509.01(b)	G-70-194 Certification of Containment Solutions Rectangular and Cylindrical Hoover Vault Aboveground Tank Filling/Dispensing Vapor Recovery Systems	05-11-2000	http://www.arb.ca.gov/vapor/above/g70194.pdf - no cost
Env-Or 509.01(b)	G-70-195 Certification of The Cretex Companies, Inc FuelVault Aboveground Tank Filling/Dispensing Vapor Recovery System	03-31-2000	http://www.arb.ca.gov/vapor/above/g70195.pdf - no cost
Env-Or 509.01(b)	G-70-196 Certification of the Saber Technologies, LLC SaberVac VR Phase II Vapor Recovery System	12-30-2000	http://www.arb.ca.gov/vapor/eos/eo-196/196all.pdf - no cost

Rule Section	Title	Dated	Obtain at:
Env-Or 509.01(b)	G-70-197 Certification of the Sychrotek Fastflo 3 Phase II Vapor Recovery System	06-25-2001	http://www.arb.ca.gov/vapor/above/g70197.pdf - no cost
Env-Or 509.01(b)	G-70-198 Continued Use of Vapor Recovery Systems for which Certification is Terminated by the Adoption of New Standards	06-04-2001	http://www.arb.ca.gov/vapor/eos/eo-198/eo198.pdf - no cost
Env-Or 509.01(b)	G-70-199-AH Relating to Certification of Gasoline Dispensing Nozzles to the Liquid Retention of 350 milliliters per 1,000 Gallons Dispensed	01-23-2002	http://www.arb.ca.gov/vapor/eos/eo-199/eo199ah.pdf - no cost
Env-Or 509.01(b)	G-70-200 Relating to Site-Specific Certification of the Oldcastle Aboveground Below-Grade Fuel Vault with Balance Vapor Recovery System and Buried Vapor Return Piping	04-22-2002	http://www.arb.ca.gov/vapor/above/g70200.pdf - no cost
Env-Or 509.01(b)	G-70-201 Relating to Site-Specific Certification of the Oldcastle Aboveground Below-Grade Fuel Vault with Balance Vapor Recovery System and Trenched Vapor Return Piping	04-22-2002	http://www.arb.ca.gov/vapor/above/g70201.pdf - no cost
Env-Or 509.01(b)	G-70-202 Relating to Site-Specific Certification of the Oldcastle Aboveground Below-Grade Fuel Vault with Gilbarco VaporVac Phase II Recovery System and Trenched Vapor Return Piping	04-22-2002	http://www.arb.ca.gov/vapor/above/g70202.pdf - no cost
Env-Or 509.01(b)	VR-101-B Phil-Tite Phase I Vapor Recovery System With Ball Float Overflow Prevention	07-12-2002	http://www.arb.ca.gov/vapor/eos/eo-vr101/eovr101b/vr101b.pdf - no cost
Env-Or 509.01(b)	VR-102-A OPW Phase I Vapor Recovery System	10-10-2002	http://www.arb.ca.gov/vapor/eos/eo-vr102/eovr102a/vr102a_final.pdf - no cost

Rule Section	Title	Dated	Obtain at:
Env-Or 509.01(b)	VR-203-A Vapor Systems Technologies, Inc. Phase II Enhanced Vapor Recovery (EVR) Not Including In-Station Diagnostics (ISD)	11-05-2007	http://www.arb.ca.gov/vapor/eos/eo-vr203/eovr203a/vr203a.pdf - no cost
Env-Or 509.01(b)	Approval Letter #07-08 Catlow Model CTMVA Cam Twist Breakaway	11-07-2007	http://www.arb.ca.gov/vapor/approval/cal-07/07-08.pdf - no cost
Env-Or 509.01(b)	Approval Letter #09-02 Reinstatement Of Enhanced Vapor Recovery (EVR) Phase II Balance Components As The Only Approved Replacement Components For Balance Phase II Systems	06-01-2009	http://www.arb.ca.gov/vapor/approval/cal-09/09-02.pdf - no cost
Env-Or 509.01(b)	CP-201 Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities	02-09-2005	http://www.arb.ca.gov/testmeth/vol2/cp201_feb2005.pdf - no cost

Appendix B: State and Federal Statutes Implemented

Rule Section(s)	State Statute(s) Implemented	Federal Statutes Implemented
Env-Or 501	RSA 125-C:4, I(a)	42 U.S.C. 7511a(b)(3); 42 U.S.C. 7511c(b)(2)
Env-Or 502	RSA 125-C:4, I(a)	42 U.S.C. 7511a(b)(3); 42 U.S.C. 7511c(b)(2)
Env-Or 503	RSA 125-C:6, XIV	42 U.S.C. 7511a(b)(3); 42 U.S.C. 7511c(b)(2)
Env-Or 504	RSA 125-C:6, XIV	42 U.S.C. 7511a(b)(3); 42 U.S.C. 7511c(b)(2)
Env-Or 505	RSA 125-C:6, II & XIV; RSA 125-C:12, I	42 U.S.C. 7511a(b)(3); 42 U.S.C. 7511c(b)(2)
Env-Or 506	RSA 125-C:4, I(a); RSA 125-C:6, II & XIV; RSA 125-C:12, I	42 U.S.C. 7511a(b)(3); 42 U.S.C. 7511c(b)(2)
Env-Or 507	RSA 125-C:6, XIV	42 U.S.C. 7511a(b)(3); 42 U.S.C. 7511c(b)(2)
Env-Or 508	RSA 125-C:4, I(m); RSA 541-A:22, IV	
Env-Or 509	RSA 125-C:6, XIV	42 U.S.C. 7511a(b)(3); 42 U.S.C. 7511c(b)(2)

Appendix C: Definitions from State Statutes and Federal Rules

RSA 125-C:2, II: “Air contaminant” means soot, cinders, ashes, any dust, fume, gas, mist (other than water), odor, toxic or radioactive material, particulate matter, or any combination thereof.

RSA 125-C:2, VIII: “Emission” means a release into the outdoor air of air contaminants.

40 CFR §63.11132: “Monthly throughput” means the total volume of gasoline that is loaded into, or dispensed from, all gasoline storage tanks at each GDF during a month. Monthly throughput is calculated by summing the volume of gasoline loaded into, or dispensed from, all gasoline storage tanks at each GDF during the current day, plus the total volume of gasoline loaded into, or dispensed from, all gasoline storage tanks at each GDF during the previous 364 days, and then dividing that sum by 12.

40 CFR §51.100: “Owner or operator” means any person who owns, leases, operates, controls, or supervises a facility, building, structure, or installation which directly or indirectly result or may result in emissions of any air pollutant for which a national standard is in effect.”

Appendix D: PV Vent Cap Pressure and Vacuum Requirements in effect immediately prior to the 2012 effective date of this chapter

Env-Wm 1404.06 Stage I Physical Requirements.

(b) Unless otherwise specified for a certified vapor recovery system, the owner or operator shall install PV vent caps on an underground gasoline storage tank as follows:

- (1) For pressure, 13.8 inches water column pressure (8.0 oz/in²); and
- (2) For vacuum, 0.9 inches water column vacuum (0.5 oz/in²).

(d) Unless otherwise specified for a certified vapor recovery system, the owner or operator shall install PV vent caps on an aboveground gasoline storage tank as follows:

- (1) For pressure, the lower of the following two values:
 - a. A pressure setting of 10% of the maximum allowable working pressure of the tank; or
 - b. A pressure setting of 13.9 inches water column pressure (8.0 oz/in²); and
- (2) For vacuum, 3.0 inches water column vacuum (1.7 oz/in²).

Env-Wm 1404.18 Stage II Physical Requirements.

(b) Unless otherwise specified for a certified vapor recovery system, the owner or operator shall install a stage II system with a PV vent cap setting as follows:

- (1) For pressure, 3.0 inches water column pressure (1.7 oz/in²); and
- (2) For vacuum, 8.0 inches water column vacuum (4.6 oz/in²).