

310 CMR 7.24 (6) Dispensing of Motor Vehicle Fuel

Routine Maintenance, Minor and Substantial Modifications: Compliance Testing and Certification Submittal Requirements

Routine Maintenance means, for the purposes of 310 CMR 7.24(6), the regular re-installation, repair or replacement of one or more Stage II System components including, but not limited to: hoses; nozzles; breakaways; swivels; hose retractors; bucket plow rings; "slip-on" spill or dry break buckets; "O" rings and seals; submersible pumps or suction pipes; fill adaptors; fill tubes; vapor adaptors; fill and vapor caps; drain valves; monitor caps; or riser caps.

Minor Modification means, for the purposes of 310 CMR 7.24(6), the re-installation, repair or replacement of one or more Stage II System components that is not substantial, including, but not limited to: less than 50% of the motor vehicle fuel dispensers (e.g., 1 of 4 dispensers); a central vacuum unit of a Healy 400 ORVR nozzle system or Healy 600 nozzle system; ball float extractor valve housings; dispenser mounted vapor pumps; or "screw-on" spill or dry break buckets. If the re-installation, repair or replacement of Stage II System components occurs at a motor vehicle fuel dispensing facility with two or less dispensers, the re-installation, repair or replacement of only one of the motor vehicle fuel dispensers shall be a Minor Modification.

Substantial Modification means, for the purposes of 310 CMR 7.24(6), the re-installation, repair or replacement of one or more Stage II System components including, but not limited to: 50% or more of the motor vehicle fuel dispensers (e.g., 2 of 4 dispensers); the replacement of one type of Stage II system with another type (e.g., replacement of a balance system with a vacuum assist system, or a Healy 400 ORVR nozzle system or Healy 600 nozzle system with a Healy VP-1000 system); or the re-installation, repair or replacement of Stage II System components requiring excavation below a shear valve or tank pad (e.g., vapor return piping, vent piping, vapor space tie bar, two-point or coaxial Stage I systems; or motor vehicle fuel storage tanks). If the re-installation, repair or replacement of one or more Stage II System components occurs at a motor vehicle fuel dispensing facility with two or fewer dispensers, the re-installation, repair or replacement of all motor vehicle fuel dispensers shall be a Substantial Modification.

MODIFICATION/REPAIR	TESTING REQUIRED
A. ROUTINE MAINTENANCE For routine maintenance and repairs, no submittal to MassDEP or compliance testing is required. Record of repairs is required to be maintained on site in applicable maintenance logs.	
1. Replace hose, nozzle, breakaway, swivel, hose retractor	No test
2. Replace bucket plow ring	No test
3. Replace "slip-on" spill or dry break bucket. If "screw-on" spill bucket must be replaced. See screw-on spill bucket below.	No test
4. Replace "O" rings and seals	No test
5. Replace/repair submersible pump/suction pipe	No test
6. Replace/repair fill adaptor, fill tube, vapor adaptor, fill and vapor caps, drain valves, monitor caps, riser caps	No test

<p>B. MINOR MODIFICATIONS For minor modifications and repairs, compliance testing is required to be performed and passed, but submittal of a Form A to MassDEP is not required. Records of repairs and test results are required to be maintained on site in applicable logs.</p>	
1. Replace dispenser mounted vapor pump (vacuum motor).	Air-to-Liquid Ratio Test (A/L) for that vapor dispenser and applicable nozzles
2. Replace "screw-on" spill or dry break bucket.	Pressure decay
3. Isolate diesel tank or other fuel storage tank not in use from Stage II system.	Pressure decay
4. Replace/repair <50% of total dispensers (e.g., 1 of 4 dispensers).	Pressure decay, dynamic back pressure/liquid blockage, (Air-to-Liquid Ratio for vacuum assist systems)
5. Replace/repair <50% of dispenser piping.	Pressure decay, dynamic back pressure/liquid blockage
6. Replace/repair Healy central vacuum unit for Healy 400 ORVR nozzle system or Healy 600 nozzle System.	Healy vapor return line test, Healy Fillneck Pressure (Healy 400 ORVR), Air-to-Liquid Ratio (Healy 600)
7. Replace/repair ball float extractor valve housing.	Pressure decay
<p>C. SUBSTANTIAL MODIFICATIONS For substantial modifications and repairs, all applicable tests are required to be performed and passed ("full system test") and a fully completed Form A must be submitted to MassDEP prior to commencing system operation. Records of repairs and testing are required to be maintained on site in applicable logs.</p>	
1. Excavate below shear valve or tank pad to repair, replace or install vapor return piping, vent piping, vapor space tie bar, two-point or coaxial Stage I systems.	Full system test
2. Excavate below shear valve or tank pad to repair or replace Tank	Full system test
3. Replace/repair ≥50% of the vapor recovery system	Full system test
4. Replace/repair ≥50% of the dispensers (e.g., 2 or more of 4 dispensers)	Full system test
5. Replace Stage II system with another type (e.g., replace balance system with vacuum assist system, replace Healy 400 ORVR nozzle system or Healy 600 nozzle system with Healy VP-1000 system)	Full system test.
<p>D. Facilities Currently Exempt From Stage II Requirements For gasoline dispensing facilities currently exempt from Stage II installation requirements (i.e., the facility was installed <u>prior to</u> 11/1/1989 and since 11/1/1989 has <u>not</u> been substantially modified <u>or</u> dispensed more than 10,000 gallons of gasoline in any one month) any modification or repair of the gasoline dispensing system identified below or the dispensing of more than 10,000 gallons of gasoline in any one month <u>will trigger the requirement to</u> (a) install a Stage II system, (b) perform and pass all applicable tests and (c) submit a fully completed Form A to MassDEP, prior to commencing system operation.</p>	
1. Excavate below shear valve or tank pad to repair, replace or install vent piping and/or two-point or Coaxial Stage I systems.	
2. Install, repair or replace tank and/or fuel distribution system.	