

Rhode Island Department of Environmental Management Office of Air Resources Stage I Testing Information

The following document is to provide information on the Stage I testing requirement for gasoline dispensing facilities. This document only covers testing requirements for the Office of Air Resources and does not cover testing otherwise required by either the Underground Storage Tank Management Group or the Aboveground Storage Tank Management Group. Although all related programs work together in this field, the owner/operator of a gasoline dispensing facility is responsible for knowing and complying with regulations and requirements of all programs applicable. Always be sure to check with your Town or City prior to beginning work.

Required Annual Testing for Stage I Systems

CARB Test Method	Test Description
TP-201.3	Quantifies vapor tightness of the vapor recovery system installed at a gasoline dispensing facility.
TP-201.3C	Verified underground tanks have been manifolded (connected by vapor piping). Multiple tanks must be manifolded together with vapor piping to distribute the collected vapors evenly to all tanks.
TP-201.1E	Determines if Pressure/Vacuum Vent Valves are opening at the correct pressure setting and closing at the correct vacuum setting.
TP-201-1B	Quantifies the amount of static torque required to start the movement of a rotatable Phase I adaptor to ensure 360-degree rotation.
TP-201.C	Quantifies the leak rate of drop tube/drain valve assembly when the spill container drain valve is configured to pass liquid into the drop tube.
TP-201.1D	Quantifies the leak rate of overfill prevention devices located in the Phase I product drop tube on two-point Phase I systems. This procedure can also be used to quantify the leak rate of a spill container drain valve which
	TP-201.3 TP-201.3C TP-201.1E TP-201-1B TP-201.C

Modification/Repair	Testing Required	
Routine Maintenance		
Replace bucket plow ring	No Test	
Replace "O" rings and seals	No Test	
Replace/Repair submersible pump/suction pipe	No Test	
Replace/Repair product adaptors, vapor adaptor, fill caps, vapor caps, riser caps, drain valves	No Test	
Minor Modifications		
Replace product drop tube	Pressure Decay	
Replace spill bucket with CARB-Certified EVR bucket	Pressure Decay	
Isolate diesel or other motor vehicle fuel storage tank not in use from Stage I system	Pressure Decay	
Replace/repair overfill prevention device	Pressure Decay	
Substantial Modification		
Excavate below shear valve or tank pad to repair, replace or install vent piping, vapor space tie bar, two-point or coaxial Stage I systems	Full System Test (all applicable tests)	
Excavate below shear valve or tank pad to repair or replace Tank	Full System Test (all applicable tests)	
Replace/Repair >50% of the Stage I Vapor Recovery System	Full System Test (all applicable tests)	
Replace/Repair an Aboveground Storage Tank	Full System Test (all applicable tests)	

Testing Requirements for Routine Maintenance, Minor and Substantial Modifications

Other testing requirements for Underground Storage Tanks or Aboveground Storage Tanks are not covered in this document but can be found on either programs website.

UST: http://www.dem.ri.gov/programs/wastemanagement/ust/

AST: http://www.dem.ri.gov/programs/emergencyresponse/asts.php