



**Monterey Bay Air Resources District**  
 24580 Silver Cloud Court, Monterey, CA 93940  
 (831) 647-9411

## LIQUID REMOVAL TEST

### Exhibit 5 of VR-203-XX and VR-204-XX (short version)

Renewal Testing       Engineering Startup/Evaluation

**For ISD Alarm Response Purposes Only: Nozzle Boots Inspected for Damage:  Yes  No**

SOURCE INFORMATION				TEST COMPANY INFORMATION			
Facility/Site Address:		Facility Representative/Title:		Company Name/Address		Company Representative	
Print Name		Print Name		Print Name		Print Name	
Print (if applicable)		Title		Street Address		Signature	
Street Address		Phase I System: Executive Order #:		City	Zip	Phone No.	
City	Zip	Phone No.		Date of Test		ICC Cert. No.	
District Test Witness:		Permit Number:					

(Number of nozzles x grades per nozzle) Total grade points onsite:	[A] Grade points not tested due to low flowrate (<6.0 gpm):	[C] Grade points not tested for any reason (eg. Defects):	# of grade points LR tested that passed:
Pre-Inspection <sup>1</sup> : Hoses in compliance? <input type="checkbox"/> YES <input type="checkbox"/> NO	[B] Grade points not tested due to high flowrate (>10.0 gpm):	Total number of grade points LR tested: (excluding boxes [A], [B],&[C])	# of grade points LR tested that failed:

Fueling Point & Grade (87/89/91)	Hose Make & Model	Gallons Dispensed (gal) (G) <sup>2</sup>	Time to Dispense (sec) (T) <sup>2</sup>	Screening Dispensing Rate (gal/min) <sup>2</sup>	Existing Volume Drained from Hose (mls)	Volume Added to Hose (mls) 150-175(VI) <sup>3</sup>	Gallons Dispensed (7+/-0.5 gal) (G) <sup>3,4</sup>	Time to Dispense (sec) (T) <sup>4</sup>	Test Dispensing Rate (gal/min) <sup>3,4</sup>	Volume Drained after Dispensing (mL) (VF) <sup>3,4</sup>	Liquid Removal Rate (mL/gal) <sup>3,4,5</sup>	Pass (P) or Fail (F) or Non-Test (NT)	Comments

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Fueling Point & Grade (87/89/91)	Hose Make & Model	Gallons Dispensed (gal) (G) <sup>2</sup>	Time to Dispense (sec) (T) <sup>2</sup>	Screening Dispensing Rate (gal/min) <sup>2</sup>	Existing Volume Drained from Hose (mls)	Volume Added to Hose (mls) 150-175(VI) <sup>3</sup>	Gallons Dispensed (7+/-0.5 gal) (G) <sup>3,4</sup>	Time to Dispense (sec) (T) <sup>4</sup>	Test Dispensing Rate (gal/min) <sup>3,4</sup>	Volume Drained after Dispensing (mL) (VF) <sup>3,4</sup>	Liquid Removal Rate (mL/gal) <sup>3,4,5</sup>	Pass (P) or Fail (F) or Non-Test (NT)	Comments

<sup>1</sup> Inspect hoses for slits, tears and any Title 17 defects for hanging hardware specified in Exhibit 2 of VR-203-XX or VR-204-XX. Replace defective hoses prior to proceeding with the test.

<sup>2</sup> The flow rates for all grade points must be tested and verified to be within the range of 6.0-10.0 gallons per minute (gpm). A minimum of one gallon of gasoline must be dispensed when measuring initial flowrates. If the flowrate is determined to be outside of 6.0-10.0 gpm during the initial flow rate screening, the flow rate of the given grade point must be re-tested by timing for a minimum of 30 seconds. The liquid removal test shall not be conducted for any hose with a grade point that measured outside the range of 6.0 to 10.0 gpm.

<sup>3</sup> Entry fields applicable only if existing gasoline drained from the vapor hose is equal to or greater than 25 milliliters.

<sup>4</sup> If the existing gasoline drained from the vapor hose is equal to or greater than 25 milliliters, then a liquid removal test must be conducted per Option One of Ext. 5. After 150-175 ml’s of gasoline is added to the vapor path, 7.0 +/-0.5 gallons must be dispensed at a flow rate within 6.0-10.0 gpm.

<sup>5</sup> If the liquid removal rate is less than 5.0 ml/gallon, but greater than or equal to 4.5 ml/gallon, repeat the test two additional times and average the three results.