Executive Order VR-201-N
Healy Phase II EVR System
Not Including ISD

EXHIBIT 9
Liquid Condensate Trap Compliance Test Procedure

Definitions common to all certification and test procedures are in:

D-200 Definitions for Vapor Recovery Procedures

For the purpose of this procedure the term “ARB” refers to the California Air Resources Board, and the term “Executive Officer” refers to the ARB Executive Officer or his or her authorized representative or designate.

1. PURPOSE AND APPLICABILITY

This procedure is used to verify the automatic evacuation of the Liquid Condensate Trap (LCT), the Liquid Sensor Alarm, as well as Visual and Audible Alarm. This procedure provides a method to determine compliance with the LCT requirements specified in ARB Executive Order VR-201 and any subsequent amendments or revisions.

2. PRINCIPLE AND SUMMARY OF TEST PROCEDURE

This test procedure provides a method to determine the compliance of LCTs. Gasoline is added to the LCT until the Liquid Sensor activates an alarm. The gasoline in the LCT is then allowed to be evacuated until the Liquid Sensor Alarm has cleared.

3. BIASES AND INTERFERENCES

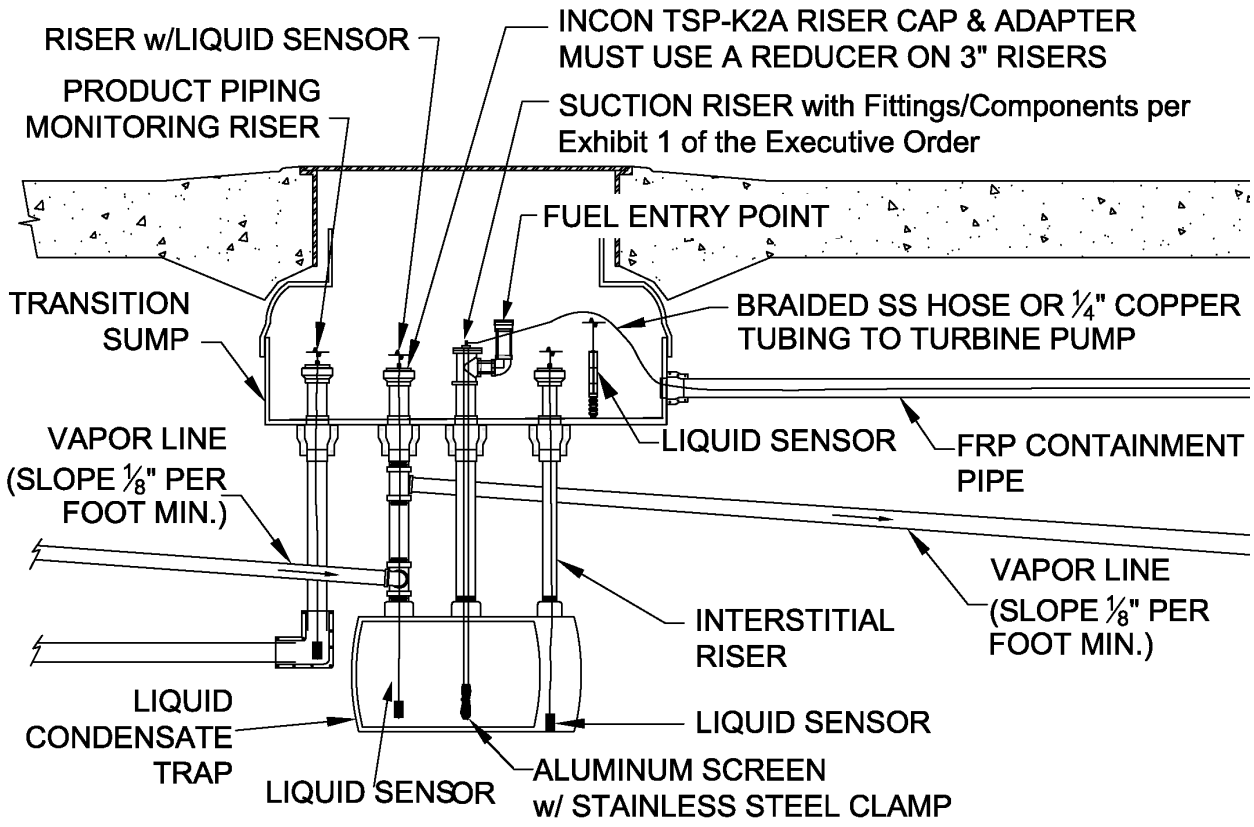
3.1. There can be no Phase I deliveries to the gasoline underground storage tank (UST) while performing this test.

3.2. To ensure that the gasoline level is below the vapor tube on the side of the Turbine Pump the gasoline level in the UST (connected to the LCT) must be below its 90 percent capacity level.

4. EQUIPMENT

5 gallon gasoline container and funnel or other method of pouring gasoline into the LCT.

Figure 1
Typical Configuration



5. PRETEST PROCEDURE

5.1. No dispensing is allowed to any vehicle for the duration of the test.

5.2. Prior to testing, turn off the 87 grade turbine pump that is connected to the LCT suction line. (This is to keep from evacuating the LCT when adding gasoline for testing.)

5.3. Record LCT capacity in Form 1. A metal tag specifying LCT capacity is installed above the Fuel Entry Point (See Figures 1 and 2). If LCT capacity tag is not installed, the LCT is not in compliance with Exhibit 2 specifications.

6. TEST PROCEDURE:

6.1. Remove plug or cap on Fuel Entry Point installed at the suction riser of the LCT. Add gasoline through the open Fuel Entry Point (see Figures 1, 2 and 3).

For a typically sized LCT (9.9 gallons) this will be approximately 2 to 3 gallons of gasoline because the Liquid Sensor is installed at 2 inches from the bottom of the LCT (See Figure 4). For larger LCTs do not introduce more gasoline than 10 percent capacity of the LCT.

6.2. Verify the Liquid Sensor activates an Audible and Visual Alarm at the tank monitoring system control panel (control panel) and obtain a printout of the alarm/sensor status (see attached Appendix A for instructions on printing out the sensor alarm report for the Veeder-Root and INCON tank monitoring systems). Record results on Form 1 and attach printout of sensor status. After verification you may silence the Alarm.

If there is **No** Audible and Visual Alarm at the control panel within five (5) minutes, the LCT is not in compliance with Exhibit 2 specifications.

6.3. Verify Liquid Evacuation: Turn on the turbine pump that is connected to the LCT. Maintain this turbine pump operation (running) until the Liquid Sensor Alarm has cleared (*i.e.* turned off). Record results on Form 1 and attach printout of sensor status (see attached Appendix A for instructions on printing out the sensor alarm report for the Veeder-Root and INCON tank monitoring systems).

Note: To keep this turbine pump running you may need to authorize more than one fueling point during the testing period.

If the Liquid Sensor Alarm **does not clear**, (gasoline is not being evacuated), the LCT is not in compliance with Exhibit 2 specifications.

7. POST TEST PROCEDURE:

Reinstall plug or cap on the Fuel Entry Point using pipe thread sealant (*e.g.* pipe dope) **and** gasoline compatible PTFE tape (*e.g.* Teflon® tape, plumber's tape, or tape dope).

8. REPORTING RESULTS

Record all alarms and evacuation test results, as well as any failures on Form 1. Ensure all printouts from control panel are attached to Form 1. Districts may require the use of alternate forms provided that the alternate forms include the same parameters as identified in Form 1.

Figure 2
Open Fuel Entry Point

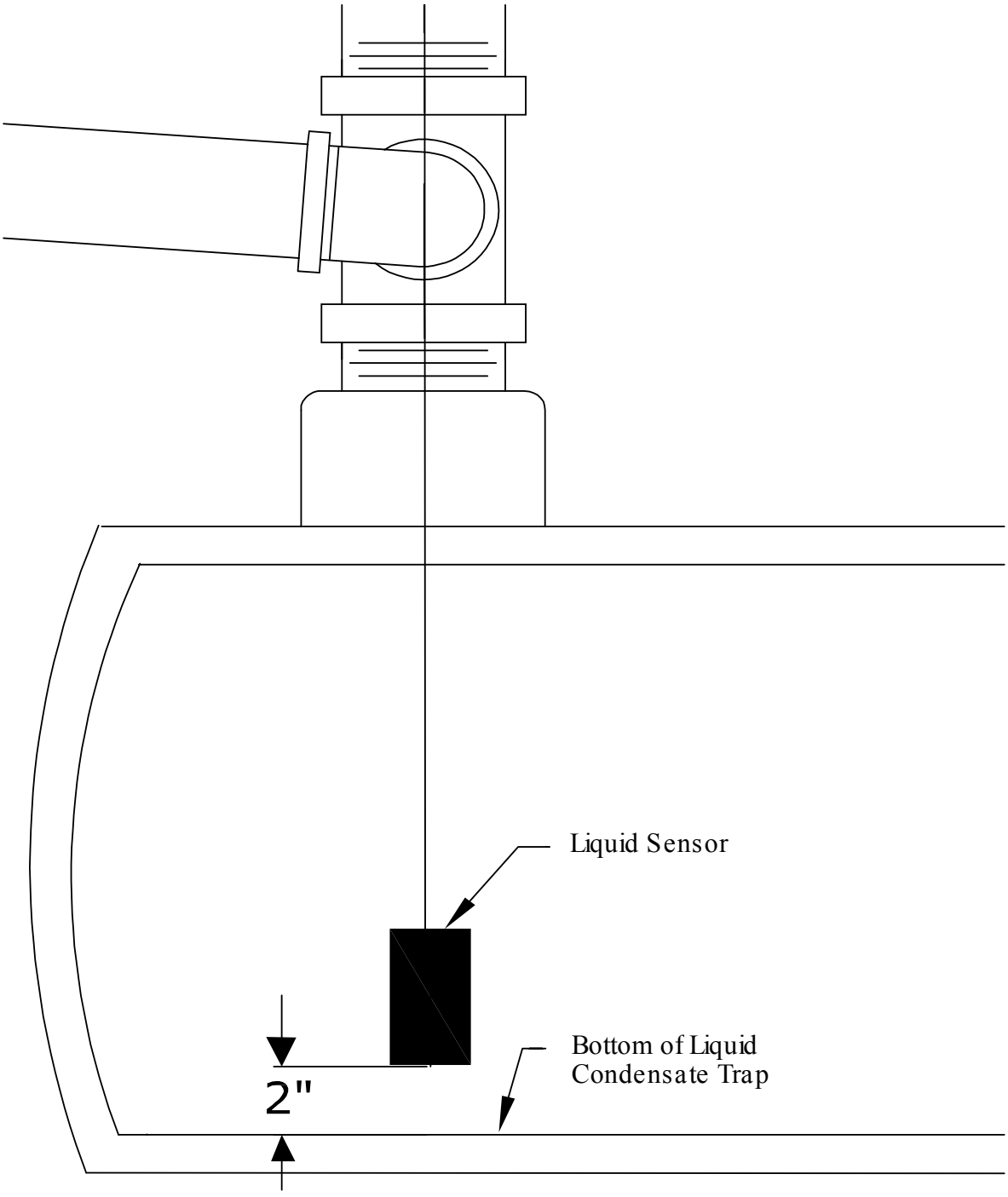
Introduce gasoline (Fuel Entry Point)

Metal tag specifying the capacity of LCT shall be affixed in this general area above Fuel Entry Point.

Suction Riser (plug removed from elbow)

Figure 3
Adding Gasoline through Open Fuel Entry Point

Figure 4
Liquid Sensor Height Setting



Form 1
Required Data When Conducting the
Liquid Condensate Trap Compliance Test Procedure

Liquid Condensate Trap Compliance Test Form	
Service Company Name	Service Company's Telephone
Date of Test	Certification #'s (as applicable) Healy Tech. Cert. #
Station Name and Address	District Training Cert. # ICC Cert. #
Service Technician (print name and sign)	District Permit #
	Capacity of LCT in gallons

Applicable Step Number	Requirement	Verification (please circle)
Step 3.2	Gasoline below 90 percent capacity level of UST?	Yes No
Step 5.3	Was tag with LCT capacity present above Fuel Entry Point?	Yes No
Step 6.2	Did Liquid Sensor activate an Audible Alarm as well as a Visual Alarm at control panel within five minutes after adding gasoline? (Attach alarm/sensor status printout to this Form.)	Yes No
Step 6.3	Did LCT evacuate and Sensor Alarms clear? (Attach alarm/sensor status printout to this Form.)	Yes No

APPENDIX A

VEEDER-ROOT LCT LIQUID SENSOR ALARM REPORT

There are many manufacturers of UST tank monitoring systems. The following are steps to print the Liquid Sensor Alarm History Report from the UST tank monitoring console for the Veeder-Root TLS-350 Tank Monitoring System.

> Note: When the LCT liquid sensors were originally programmed into the Tank Monitoring System the title given to those sensors included “LCT” in the name (*for example* if Liquid Sensor 10 is the High Level Liquid Sensor for the LCT it could have been named “L10 LCT High Liquid”.)

Veeder-Root TLS-350 Console

Liquid Sensor Alarm History Reports are a record of the last three alarms for the liquid sensor selected.

To print a Liquid Sensor Alarm History Report press the MODE key until screen displays ‘DIAGNOSTIC MODE’.

Press FUNCTION key until display reads:

ALARM HISTORY REPORT
PRESS <STEP> TO CONTINUE

Press STEP key until display reads:

L#: ALARM HISTORY
PRESS <PRINT> FOR REPORT

Press TANK/SENSOR key until you reach the liquid sensor number assigned to the High Liquid Level in the LCT (for example **L10: ALARM HISTORY**).

Press PRINT key to print the report.

APPENDIX A CONTINUED
INCON LCT LIQUID SENSOR ALARM REPORT

Follow the figures below to print a Sensor Report for LCT Alarm (Do not select Alarm History):

Figure 1 – Press 'Home' button until you reach the screen shown below. Select Print Option

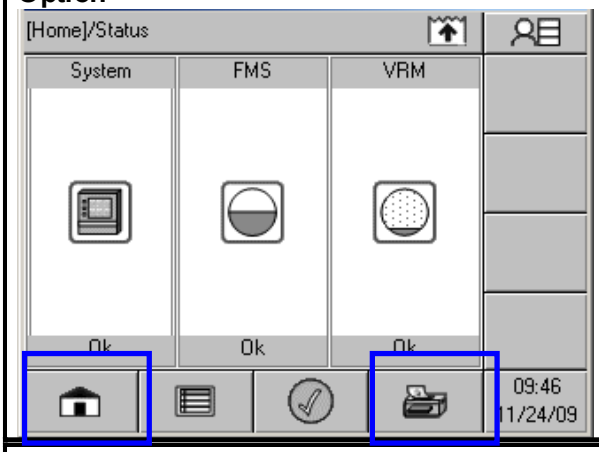


Figure 2 - Select the FMS Option

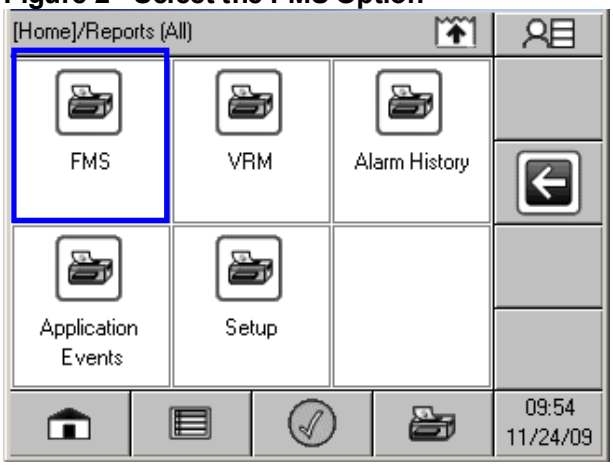


Figure 3 - Select 'Sensor' Option - You may need to press the 'scroll' button to see the 'Sensors' selection on screen.

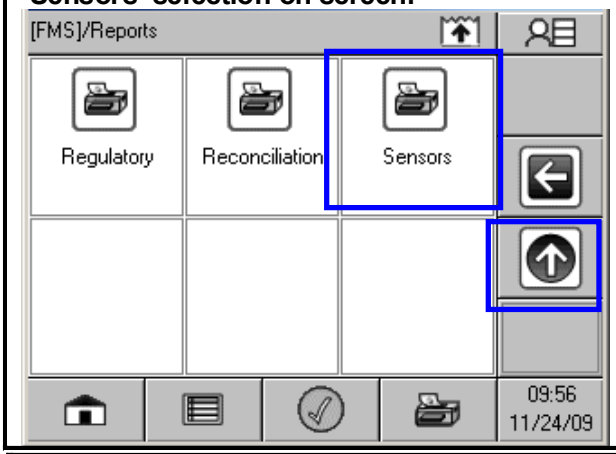


Figure 4 - Select 'Print' Option

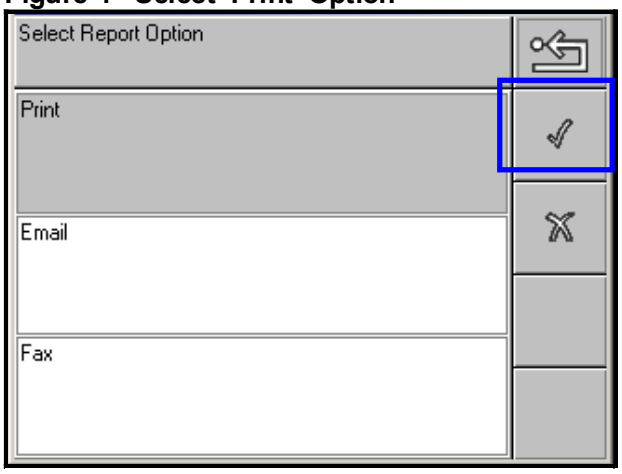


Figure 5 - Select 'Last Available' Option. If your alarm does not show, select 'Last 30 Days' or current month and year Option. Be patient, printer takes a few minutes to print.