



ARIZONA DEPARTMENT OF AGRICULTURE

WEIGHTS AND MEASURES SERVICES DIVISION

1688 West Adams Street Phoenix, Arizona 85007
Metrology Laboratory: 4425 W. Olive Ave, Suite 134, Glendale, AZ 85302
602-771-4920 FAX 623-939-8586 800-277-6675
<https://agriculture.az.gov/>

Vapor Recovery Alert 22

May 30, 2017

Dear Registered Service Agent:

This letter is to inform you of recent changes to Stage I vapor recovery test procedures within the State of Arizona. This update is the result of input provided by Registered Service Representatives (RSR) and Weights and Measures Services Division staff during the Vapor Recovery RSR training class held by the Division in April 2017.

Under Arizona Administrative Code (A.A.C.) Title 3, Chapter 7, Article 10, California Air Resources Board (CARB) TP-201.3 is the adopted pressure decay performance determination test procedure adopted by the Division for fuel dispensing sites operating a Stage I vapor recovery system. The following changes have been implemented to ensure greater consistency with CARB TP-201.3:

- RSR's are now required to measure nitrogen flow beyond the tank regulator through a flow meter with a range of at least 1.0 to 5.0 CFM. **This may require the purchase of a flow meter if you do not have one.**
- Nitrogen shall be introduced into the Stage I vapor recovery system at a constant flow rate between 1.0 and 5.0 CFM, with the recommended flow rate being 1.0 CFM.
- Division Inspectors will now calculate the minimum time required to pressurize system ullage to 2.0 inches H²O (see TP-201.3 section 7.1.1.) and record this information on official inspection forms. The use of a flow meter as described above allows Division Inspectors to perform this calculation. This calculation is necessary to help identify potential leaks within the Stage I vapor recovery system.
- The Stage I vapor recovery system will be pressurized to at least 2.2 inches H²O and allowed to stabilize.
- Once the system pressure has stabilized at 2.2 inches H²O, the RSR will then be instructed to relieve the system pressure down to 2.0 inches H²O, where the pressure will once again be allowed to stabilize.
- After the system pressure has stabilized at 2.0 inches H²O, the Division Inspector will start a stopwatch to record pressure decay for a period of five (5) minutes.
- "Stabilized" is defined by the Division as measured pressure fluctuation of no more than +/- 0.02 inches H²O over a period of 30 seconds.
- All other portions of the test procedure remain unchanged.

Please note that all Vapor Recovery RSA/RSR's are required to comply with the requirements listed above by **July 1, 2017**. Failure to comply within the specified time frame may result in enforcement action by the Division.

It should also be noted that the Division has created a Vapor Recovery Inspection Log for sites that only operate a Stage I vapor recovery system. This inspection log is different from the previous Vacuum Assist and Balance System daily inspection logs, as the Stage I Vapor Recovery Inspection Log exclusively addresses Stage I vapor recovery components. Inspections of the Stage I vapor recovery system are now required to be performed and documented at least once every seven (7) days, though it is recommended to inspect vapor recovery components as often as possible. A template of the Stage I Vapor Recovery Inspection Log has been included with this letter, as well as uploaded to the "Forms" section of the Division website. Sites solely operating a Stage I vapor recovery system shall comply with this new inspection procedure immediately.

Please contact the Division at 602-771-4939 with any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read "Kevin Allen". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Kevin Allen
Vapor and Fuel Program Compliance Manager
Arizona Department of Agriculture
Weights and Measures Services Division



**ARIZONA DEPARTMENT OF AGRICULTURE
WEIGHTS AND MEASURES SERVICES DIVISION**
1688 W. Adams Street, Phoenix, AZ 85007
Phone: 602-542-4373 or 1-800-277-6675 (outside Phoenix Metro)
Fax: 623-939-8586 State Ombudsman: 602-277-7292
https://agriculture.az.gov

Stage I Vapor Recovery Inspection Log

Shall be completed at least once every 7 days under A.A.C R3-7-1007(C)

Shall be maintained under A.A.C. R3-7-1009(A)

Month: _____ Year: _____

UNDERGROUND STORAGE TANKS		WEEK 1		WEEK 2		WEEK 3		WEEK 4		WEEK 5	
		DATE:		DATE:		DATE:		DATE:		DATE:	
		YES/NO	INITIAL	YES/NO	INITIAL	YES/NO	INITIAL	YES/NO	INITIAL	YES/NO	INITIAL
1	Are the spill containment buckets clean and dry?										
2	Are dust caps installed on all product and vapor adaptors?										
3	Are the dust caps firmly secured and unable to swivel freely?										
4	Are the vapor recovery adaptors properly sealed?										
5	Are the rubber gaskets installed underneath all dust caps?										
6	Is the fill tube collar in good condition and free of any cracks or dents?										
7	If you look down the fill tube, do you see any gaskets that are torn or out of place?										
8	Are there P/V vent valves on the vent risers?										
9	Do the P/V vent valves appear to have any damage?										

If you are experiencing problems with any of the items listed above, please make the necessary repairs or contact a service technician immediately.

Owner/Operator: _____ **Date:** _____

I certify this document to be accurate and complete as required under A.A.C. R3-7-1007(C) and A.A.C. R3-7-1009(A), and I acknowledge that failing to maintain this document, or falsifying this document, is a violation of Arizona Administrative Code and subject to civil penalties under A.R.S. 3-3475.



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Month: MAY Year: 2017

UNDERGROUND STORAGE TANKS	WEEK 1		WEEK 2		WEEK 3		WEEK 4		WEEK 5		
	DATE: <u>5/2/17</u>		DATE: <u>5/9/17</u>		DATE: <u>5/16/17</u>		DATE: <u>5/23/17</u>		DATE: <u>5/30/17</u>		
	YES/NO	INITIAL	YES/NO	INITIAL	YES/NO	INITIAL	YES/NO	INITIAL	YES/NO	INITIAL	
1	Are the spill containment buckets clean and dry?	YES	KA	yes	BR	YES	KA	YES	KA	yes	BR
2	Are dust caps installed on all product and vapor adaptors?	YES	KA	yes	BR	YES	KA	YES	KA	yes	BR
3	Are the dust caps firmly secured and unable to swivel freely?	YES	KA	yes	BR	YES	KA	YES	KA	yes	BR
4	Are the vapor recovery adaptors properly sealed?	YES	KA	yes	BR	YES	KA	YES	KA	yes	BR
5	Are the rubber gaskets installed underneath all dust caps?	YES	KA	yes	BR	YES	KA	YES	KA	yes	BR
6	Is the fill tube collar in good condition and free of any cracks or dents?	YES	KA	yes	BR	YES	KA	YES	KA	yes	BR
7	If you look down the fill tube, do you see any gaskets that are torn or out of place?	No	KA	no	BR	No	KA	No	KA	no	BR
8	Are there P/V vent valves on the vent risers?	YES	KA	yes	BR	YES	KA	YES	KA	yes	BR
9	Do the P/V vent valves appear to have any damage?	No	KA	no	BR	No	KA	No	KA	no	BR

If you are experiencing problems with any of the items listed above, please make the necessary repairs or contact a service technician immediately.

Owner/Operator: J Sample Date: 5/30/17

I certify this document to be accurate and complete as required under A.A.C. R3-7-1007(C) and A.A.C. R3-7-1009(A), and I acknowledge that failing to maintain this document, or falsifying this document, is a violation of Arizona Administrative Code and subject to civil penalties under A.R.S. 3-3475.