

Arizona Department of Agriculture Weights and Measures Services Division

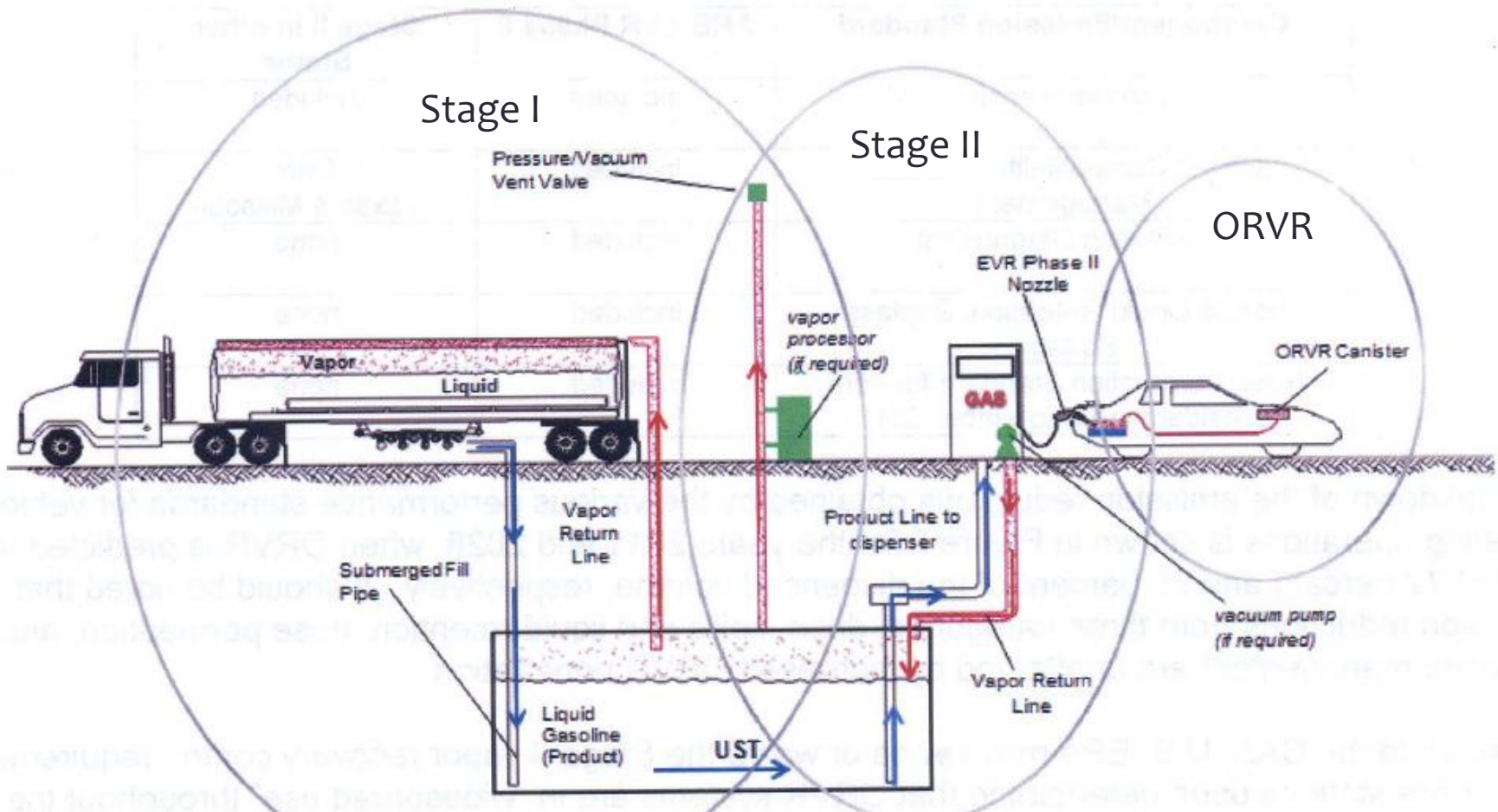
Michelle Wilson

July 15, 2016

Agenda

- * Background of vapor decommissioning
- * When can sites decommission
- * Review of decommissioning requirements and submissions
- * Questions

Vapor Recovery



Note: following decommissioning of stage II equipment, stage I equipment will remain and requirements, including testing and inspection will still apply

How did we get here?

- * May 2012 - EPA published final rule allowing (but not requiring states to remove Stage II)
- * August 2012 - EPA published guidance document outlining the requirements for State Implementation Plan (SIP) submittal for removal
- * November 2012, September 2013, and January 2014 - Workshops held by MAG, ADEQ, and AZDWM
- * April 22, 2014 - House Bill 2128 signed allowing decommissioning and authorizing rules

How did we get here, cont...

- * September 2014 - SIP submitted to EPA
- * August 2014, December 2014, and February 2015 - Rulemaking workshops conducted
- * October 2015 - Final rule effective
- * Letter and Frequently Asked Questions sent out 9/15/15
- * September and October 2015 - Three conference calls held to review requirements for decommissioning
- * November 2015 - EPA approved SIP submittal

Vapor Recovery Rule

- * Rule Effective October 3, 2015
- * Provides the requirements for removal of stage II vapor recovery equipment between October 1, 2016 and September 30, 2018
- * Includes requirements for remaining stage I vapor recovery equipment
- * Copy of the rule is on the website:
<https://dwm.az.gov/sites/default/files/documents/files/Stagell2015.pdf>

So Here We Are!!

October 1, 2016
to
September 30, 2018

Decommissioning

- * **Default decommission:**
 - * BMF 13676 or less = Year 1 (October 1, 2016 – September 30, 2017)
 - * BMF 13677 or greater = Year 2 (October 1, 2017 – September 30, 2018)
 - * Exempt sites = Any time during 2-year time period
 - * Sites replacing all dispensers may decommission at time of dispenser replacement with permission of the Department
- * Sites were allowed to submit an Alternate Plan to change these dates by December 31, 2015
- * A letter of approval was sent to sites approving alternate dates

Overview of Decommissioning Requirements

- * Stage II vapor recovery must be maintained until it is decommissioned in accordance with the rules
- * Sites that decommission after their annual test month are required to conduct the stage II vapor recovery test and maintain equipment until decommissioned per rules
- * Must decommission entire station all at one time
- * Site will be shut down during decommissioning
- * Witnessed test scheduled and conducted at later time (within 60 days)

Overview of Decommissioning Requirements, cont...

- * Submit a Notice of Intent form (online) 10 days prior to decommissioning
https://ctutools.azda.gov/dwm/pv/Vapor058_LocationSearch.asp

Note: There is no Authority to Construct permit required, even if replacing dispensers.

- * If there are changes to the date, submit changes 24 hours prior
- * Decommission the stage II vapor recovery in accordance with Petroleum Equipment Institute (PEI) Recommended Practice (RP) 300
- * Contractor completes online checklist which is emailed to the Department, contractor, and owner (as licensed with Department)
- * Conduct vapor test within 60 days following decommissioning

 SEARCH

AZ DEPARTMENT OF AGRICULTURE

WEIGHTS AND MEASURES
SERVICES DIVISION

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Ensuring Proper Calibration

Weights and Measures investigators regularly conduct inspections to ensure equity of commercial measuring devices and commercial transactions involving quantity. We check over 19,500 small capacity...

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DEPARTMENT OF WEIGHTS &
MEASURES
DIRECTOR MARK W. KILLIAN

QUICK LINKS

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- ABOUT WEIGHT & MEASURES SERVICES DIVISION
- LICENSING REQUIREMENTS
- REGISTERED SERVICE AGENTS/LOCATIONS
- LARGE SCALES IN AZ MAP
- MOVING INFORMATION
- NEWSLETTERS
- ANNUAL REPORT

PRESS RELEASES

- WEIGHTS AND MEASURES WEEK 2016 A GREAT SUCCESS**
March 1, 2016 | Press Release
Take a look at how the Department of Weights and Measures educates our future consumers...
- STATE BRYAN'S SKIMMER INVESTIGATION**
December 18, 2015 | Press Release
Five Gas Pumps & Three Stations Impacted (Phoenix)
The Department of Weights and...
- GOVERNOR DOUG DUCEY ANNOUNCES NEW DIRECTOR FOR THE ARIZONA DEPARTMENT OF ADMINISTRATION**
August 2, 2015 | Press Release
PHOENIX - Governor Doug Ducey today announced the appointment of Craig Sirotnik as director...
- GOVERNOR DOUG DUCEY ISSUES SPECIAL RECOGNITION TO SPECIAL OLYMPICS ARIZONA**
November 11, 2014 | Press Release



MAKE A PAYMENT ONLINE



FILE A NEW COMPLAINT



ONLINE INSPECTION SEARCH



ONLINE FORMS FOR DECOMMISSIONING

LATEST NEWS & UPDATES

- STAGE II VAPOR RECOVERY WORKSHOP**
A workshop will be held Friday July 13 regarding decommissioning of stage II vapor recovery. Click here for agenda.
- MOVING INFORMATION**
The Department of Public Safety (DPS) investigates criminal activities between motorists and...

Online Form Submittal



Arizona Department of Weights and Measures



Arizona Department of Agriculture
Quality...From the Land to You

The Department of Weights and Measures now operates under the Arizona Department of Agriculture.

STAGE II VAPOR RECOVERY EQUIPMENT DECOMMISSION

Search for the business location using the BMF # found on the business license.

BMF #:

[SEARCH FOR
LOCATION](#)



Enter BMF

Notice of Intent

STAGE II VAPOR RECOVERY EQUIPMENT DECOMMISSION

Search for the business location using the BMF # found on the business license.

BMF #:

[SEARCH FOR LOCATION](#)

BMF #	2
Location	DIVISION OF WEIGHTS AND MEASURES 1688 W ADAMS ST PHOENIX AZ 85007
Decommission Year:	2 (October 1, 2017 - September 30, 2018)

[FILE NOTICE OF INTENT](#)

To be filed 10 days prior to decommissioning.

Any changes to the construction dates must be filed with the Department using this form within 24 hours prior to the start of construction.

[FILE DECOMMISSIONING CHECK LIST](#)

To be filed by the construction contractor within 10 days following the completion of decommissioning.

Shows the scheduled decommissioning year

Click File Notice of Intent – must be done 10 days prior to decommissioning

NOTICE OF INTENT TO DECOMMISSION STAGE II VAPOR RECOVERY EQUIPMENT

This form shall be used to notify the Department of the intent to decommission Stage II vapor recovery equipment and shall be completed and submitted to the Department at least 10 days prior to commencing Stage II decommissioning.

For a complete description of the requirements for decommissioning see R20-2-913.

*** ALL FIELDS ARE REQUIRED**

LOCATION INFORMATION

BMF # 2
DIVISION OF WEIGHTS AND MEASURES
Business 1688 W ADAMS ST
PHOENIX AZ 85007
Email mwilson@azda.gov
Decommission Year: 2 (October 1, 2017 - September 30, 2018)

Shows the email address registered for the site

CONSTRUCTION INFORMATION

Construction Start 10/01/2016
Construction End 10/01/2016

Construction Company Name Decommissioning Specialists
Business Address 123 Main St.
City Phoenix
State AZ
Zipcode 85007
Contact Name Michelle Wilson
Phone 602-771-4933
Email mwilson@azda.gov

Put the email address where you want your copy to go. This may be forwarded to others as needed

APPLICANT INFORMATION

Completed by Construction Company
Applicant Name Michelle Wilson
Phone 602-771-4933
Email mwilson@azda.gov

Any change to the construction dates must be filed with the Department using this form within 24 hours prior to the start of construction.

[SUBMIT NOTICE OF INTENT](#)

Notice of Intent Form, cont...

- * An email of the form is sent to the email address on file for the site and the email address entered... it will show you who it was sent to....

Your Vapor Notice of Intent has been submitted.

Your submission #: 5

A confirmation email has been sent to: mwilson@azda.gov; d-desantiago@azda.gov;

- * If you need to send to someone else, you may forward the email to them

Changes to Notice of Intent

- * If there are any changes to the start or end construction dates, they should be filed using the same Notice of Intent form at least 24 hours to start of construction.
- * Use the same online Notice of Intent form

Decommissioning Requirements

- * **Must follow Petroleum Equipment Institute (PEI) Recommended Practice (RP) 300, 2009 edition**
- * Three differences listed under AAC R20-2-913(h)

<https://www.pei.org/rp300>

- * \$40 for members, \$95 for non-members
- * The Weights and Measures Services Division have copies for review upon request

Exceptions to RP 300

- * Three differences to PEI RP 300 that are included in AAC R20-2-913(h):
 1. Liquid shall be purged from the vapor piping following disconnection
 2. If vapor piping is not disconnected from the tank top, it shall be disconnected in the future if construction involving excavation makes the piping accessible
 3. Specifies the 2-inch pressure decay test that is conducted on an annual basis per R20-2-1005(A)(1)
- *

Overview of Decommissioning Requirements

Following is a summary of the requirements in PEI RP 300. This is a only summary and all contractors shall follow the detailed specifications in RP 300.

1. Initiate safety procedures
2. Relieve pressure in the tank ullage
 - * Remove PV vent valve
 - * Leave the PV vent valve off until decommissioning is completed

Overview of Decommissioning Requirements, cont...

3. Drain liquid Collection Points (Vapor Pots)

- * Open, check for presence and pump out any liquid
- * Disconnect copper line at the vacuum port of the sub pump and seal using a compression or flare fitting
- * Install a plug in the sub-pump to seal the vacuum port
- * When feasible, seal the copper line inside the vapor pot sump using a compression or flare fitting
- * Alternately, remove copper tube completely if it can be done w/o excavation. If applicable, plug opening in containment sump.
- * Replace vapor pot cap, sealing so it is vapor tight

Overview of Decommissioning Requirements, cont...

4. Vacuum-assist systems with vapor pumps in the dispenser

- * Open the electrical junction box and disconnect the wiring at the pump motor.
- * Disconnect and cap all wires.
- * Reprogram the dispenser electronics to indicate stage II is no longer active to deactivate the vapor pumps
- * Drain liquid from the vacuum pump or remove the vacuum pump (this is not necessary if properly drained)

Overview of Decommissioning Requirements, cont...

5. Vacuum-assist with a centrally located vapor pump
 - * Completely remove the vacuum-pumping mechanism
 - * Seal the vapor piping using a threaded plug, threaded cap, or glued fitting if the pipe is fiberglass

Overview of Decommissioning Requirements, cont...

6. Isolate the below-grade vapor piping at the base of the dispenser:

- * Disconnect below-grade vapor piping from dispenser at a point that is at or below the base of the dispenser, which may require removal of the vapor shear valve.
- * Purge any liquid from the piping
- * Seal the vapor piping so it is vapor tight

What is considered to be the “Base of the Dispenser?”

- * If you took a ruler and placed it on the concrete where the dispenser base rail frame meets the concrete, there shall be no vapor piping or associated components (shear valve, vapor line plug) exceeding the height of the ruler.
- * Disconnection methodology is up to the contractor.
- * Vapor piping must be sealed using a threaded plug, threaded cap, or glued fitting if the piping is fiberglass.

Overview of Decommissioning Requirements, cont...

7. Disconnect the vapor piping at the tank top
 - * Disconnecting at the tank top is only required if it can be done without excavation:
 - * Located in a sump
 - * Can be isolated by screwing a plug into an extractor fitting that is accessible from grade
 - * Seal both the tank and dispenser end of the vapor piping with vapor tight threaded plugs, caps, or glued fittings.
 - * Require disconnection during future construction

Overview of Decommissioning Requirements, cont...

8. Seal the dispenser cabinet vapor piping

- * Seal the vapor piping inside the dispenser using a threaded cap or plug so it is vapor tight

9. Replace hanging hardware

- * Drain product from the hanging hardware into an appropriate container
- * Remove all stage II hanging hardware
- * Use appropriate adaptors as needed to install conventional hanging hardware

Overview of Decommissioning Requirements, cont...

- * 10. Replace the PV vent valve
- * 11. Remove the stage II operating instructions decal
- * 12. Conduct pressure decay and tie tank test

NOTE: PEI RP 300 specifically disallows the use of any type of rubber caps held in place by hose clamps to seal vapor piping.

Decommissioning Checklist

- * Copy must be provided to site at the time of decommissioning (can be paper or electronic)
- * A paper version of the form is online at: <https://dwm.az.gov/forms>
- * Copy must be submitted to the Division within 10 days of completion (online submittal at https://ctutools.azda.gov/dwm/pv/Vapor058_LocationSearch.asp)

Online Decommissioning Checklist

LOCATION INFORMATION

BMF # 2
 DIVISION OF WEIGHTS AND MEASURES
 Business 1688 W ADAMS ST
 PHOENIX AZ 85007
 Email ddesantiago@azda.gov
 Decommission Year: 2 (October 1, 2017 - September 30, 2018)

Shows the email address registered for the site

CONSTRUCTION INFORMATION

Construction Company Name Decommissioning Specialists
 Business Address 123 Main Street
 City Phoenix
 State AZ
 Zipcode 85007
 Contact Name Michelle Wilson
 Phone 602-771-4933
 Email mwilson@azda.gov

Put the email address where you want your copy to go. This may be forwarded to others as needed

PEI Reference	Result	Decommissioning Action
14.6.1	Yes <input type="checkbox"/>	Safety procedures initiated
14.6.2	Yes <input type="checkbox"/>	Relieve pressure in the tank ullage
14.6.3	LIQUID COLLECTION POINT (VAPOR POT)	
	No <input type="checkbox"/>	Liquid collection point (vapor pot) present
	N/A <input type="checkbox"/>	Liquid collection point (vapor pot) removed
	N/A <input type="checkbox"/>	Liquid in tank evacuated
	N/A <input type="checkbox"/>	Siphon line disconnected at submersible pump and capped
14.6.4	VACUUM MOTORS	
14.6.5	Yes <input type="checkbox"/>	Vacuum motor(s) disabled for each fueling position and liquid drained
	No <input type="checkbox"/>	Vacuum motor(s) removed for each fueling position
	N/A <input type="checkbox"/>	Centrally located vacuum motor removed and vapor piping capped
	Yes <input type="checkbox"/>	Disconnect all electrical components of the Stage II system so that no electrical hazards are created
	Yes <input checked="" type="checkbox"/>	Reprogram the dispenser electronics to reflect that Stage II vapor recovery is no longer in service

Online Decommissioning Checklist, cont...

14.6.6

14.6.7

14.6.8

VAPOR PIPING

Yes Securely seal off the below-grade vapor piping at a height below the level of the base of the dispenser

Yes Liquid purged from piping

No Securely seal the vapor piping at tank end if it is accessible without breaking concrete

Yes Securely seal the vapor piping inside the dispenser cabinet

14.6.9 Yes Replace Stage II hanging hardware with conventional hanging hardware

14.6.10 Yes Ensure pressure/vacuum vent valves are in place

14.6.11 Yes Remove the Stage II instruction decals from each dispenser

14.6.12 Yes Conduct a pressure decay test and tank tie test

14.6.13 Yes Verify that the visible components of the storage system are left in a condition that will reliably prevent the release of any vapors or liquids

14.6.14 Yes Facility restored to operating status

(Name of person conducting work)

I, , certify that I have completed the work as stated above to decommission this site in accordance with the Petroleum Equipment Institute recommended practices for installation and testing of vapor recovery systems of fueling sites, PEI/RP 300-09.

[SUBMIT DECOMMISSIONING CHECK LIST](#)

Online Decommissioning Checklist, cont...

- * An email of the form is sent to the email address on file for the site and the email address entered... it will show you who it was sent to....

Your Vapor Decommission Checklist has been submitted.

Your submission #: 3

A confirmation email has been sent to: mwilson@azda.gov; d-desantiago@azda.gov;

- * If you need to send to someone else, you may forward the email to them

Scheduling the Witnessed Vapor Test

- * Must be conducted within 60 days following construction completion (resuming gasoline sales)
- * Must be scheduled by a licensed vapor Registered Service Representative (RSR)
- * Scheduled as a “Vapor Decommission Test”

Scheduling Vapor Test



Vapor Recovery Test Schedule

[m.az.gov](#)
[Change Password](#)
[Log Out](#)
[Link To Calendar](#)
[District Lookup](#)
REPORTS
[Scheduled BMFs](#)
[Unscheduled BMFs](#)
[Active VR Sites](#)
SEARCH
[BMF Lookup](#)
ADMIN
FUNCTIONS
[Create Test Times](#)

BMF#	
Location	
Address	
Vapor Test Month	
Reservation Date/Time	
Inspection Origin	Vapor Decommission Test ▼
Pretest Date	<input type="text"/>
Assigned RSR	<input type="text"/>
Save Reservation	

**Schedule as Vapor
Decommission Test**



Witnessed Test Requirements

Test per R20-2-1005:

- * Pressure Decay
 - * CARB TP-201.3
- * Tie-Tank Test
 - * CARB TP-201.3C
- * PV Vent Valve
 - * TP-201.1E

Resources

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602-771-4934

dwm@azda.gov