



# ARIZONA DEPARTMENT OF WEIGHTS AND MEASURES

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August 1, 2013

# Agenda

- ▣ AZDWM regulation of fueling facilities
- ▣ Vapor Recovery
- ▣ Fuel Quality
- ▣ Inspection Findings

Our mission:

“To Protect the Integrity of Arizona’s Marketplace By Ensuring that Equity and Accuracy are Preserved In Commerce Through Fair and Equitable Regulation and the Effective Communication of Weight and Measurement Standards.”

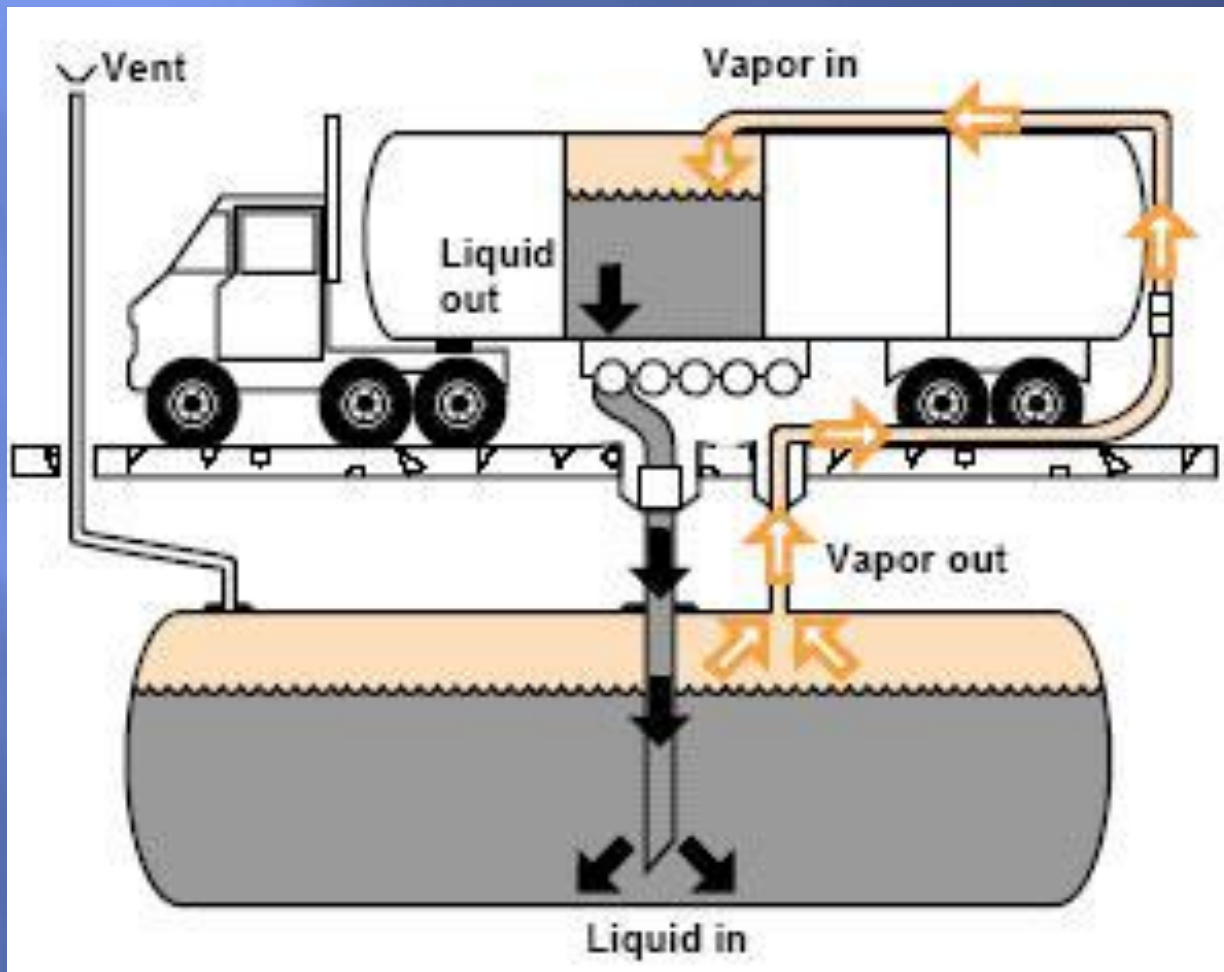
# At Motor Fueling Stations....

- ▣ License all metering devices statewide and vapor recovery devices in Areas A and B
- ▣ License businesses and individuals that test, install, service or repair
- ▣ Conduct inspections:
  - Pricing/signage
  - Pump accuracy
  - Fuel Quality
  - Vapor recovery
  - Complaints
- ▣ Arizona Revised Statutes (ARS) Title 41, Chapter 15, Arizona Administrative Code (AAC), Title 20, Chapter 2

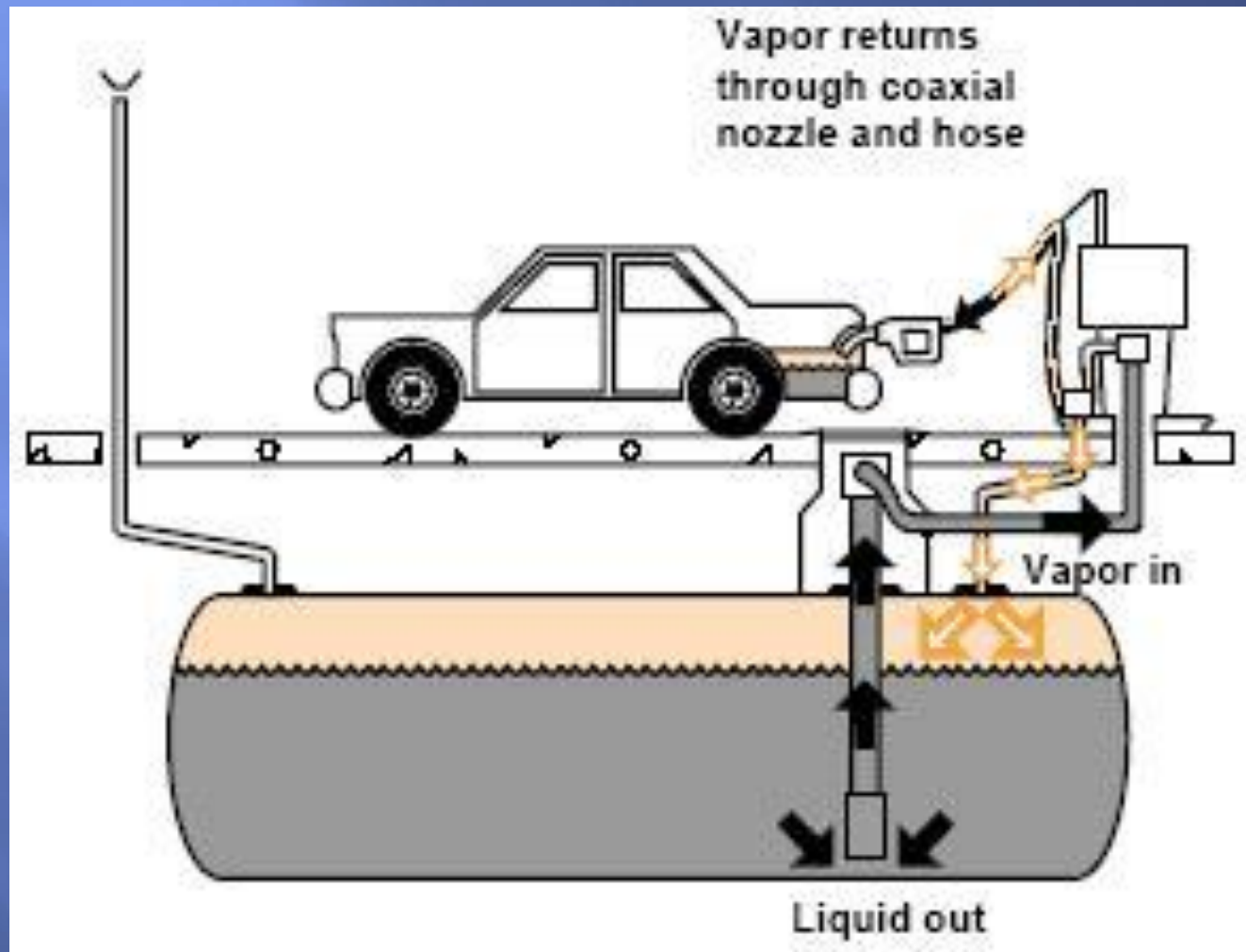
# Vapor Recovery



# Stage I



# Stage II



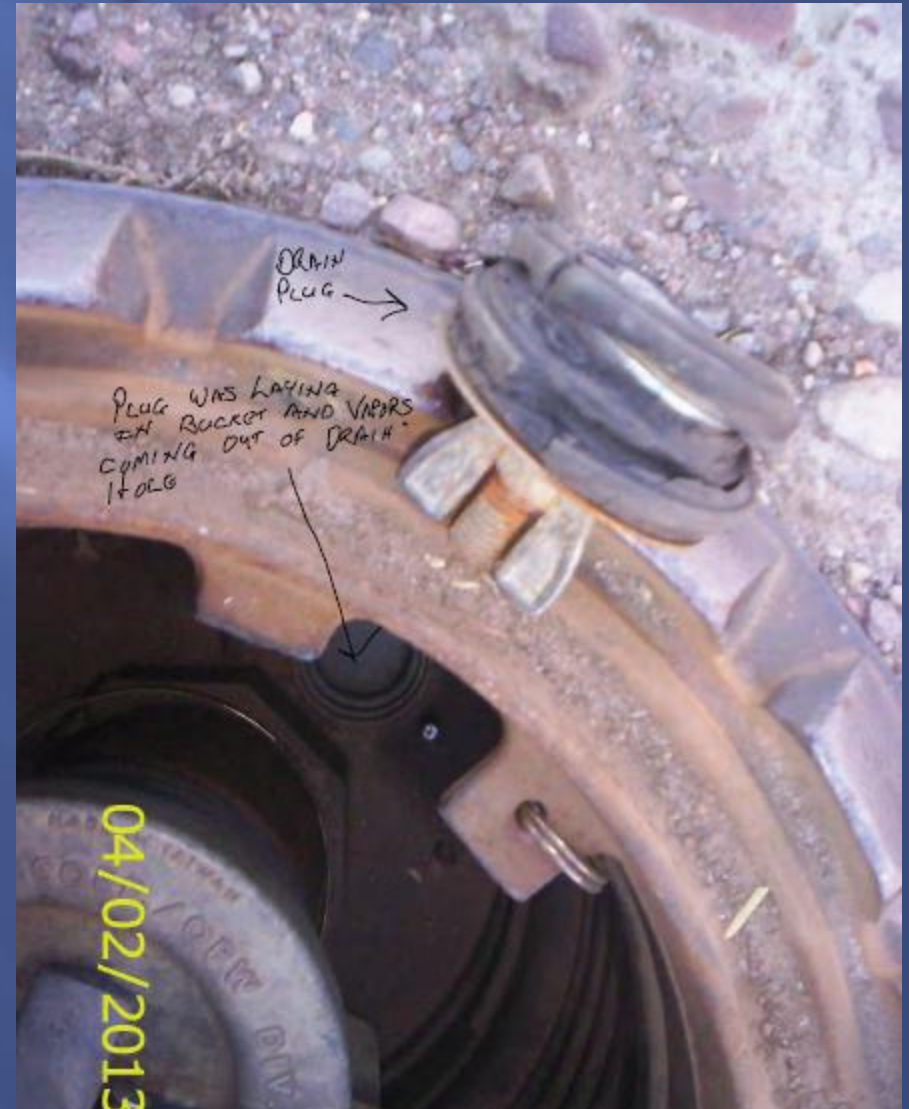
# Vapor Recovery Requirements

- ▣ ARS 41-2132, AAC R20-2-901 through 912
- ▣ General requirements:
  - Authority to Construct (ATC) permit to install/modify
  - Adequate training/written instruction to operator
  - Repair, replace, or modify worn/ineffective equipment
  - Ensure proper operation
  - Annual testing of Stage II equipment



# Vapor Recovery Violations

Failure to  
maintain  
equipment



# Vapor Recovery Violations, cont...



Failure to maintain equipment



# Vapor Recovery Violations, cont...

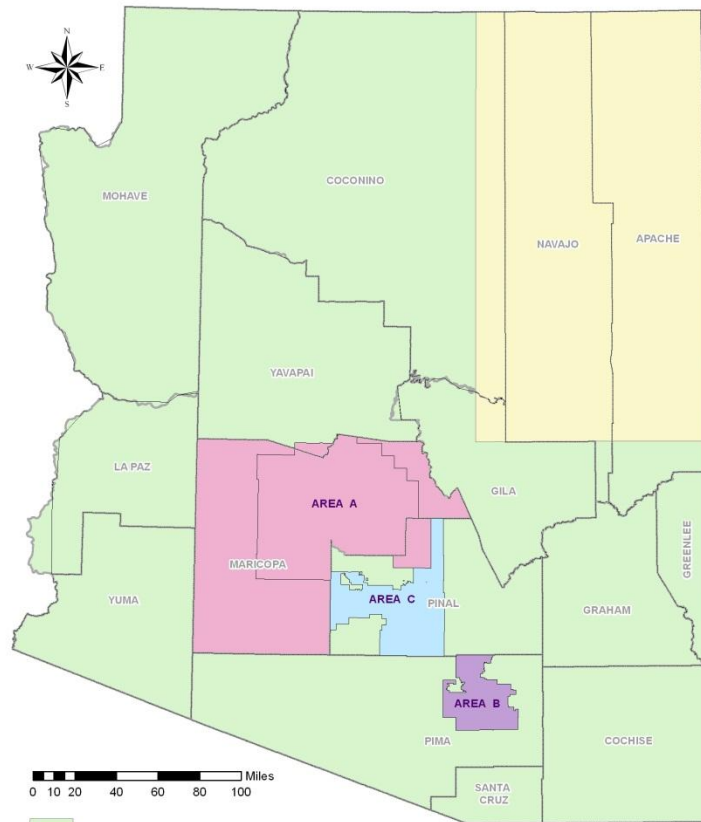
- ▣ Failure to apply for Authority to Construct Permit
- ▣ Not performing daily inspections and/or falsifying daily inspections
- ▣ Not maintaining maintenance log
- ▣ Failure to conduct annual test

# Fuel Quality Requirements

- ▣ ARS Title 41, Articles 3 and 6, and AAC Title 20, Article 7
- ▣ General requirements - fueling station owners:
  - Meet fuel standard requirements
  - Product Transfer Documentation
  - Tank/Dispenser labeling
  - Dispenser compatibility

# Fuel Quality

## Gasoline Standards in Arizona



0 10 20 40 60 80 100 Miles

- ASTM SW Desert RVP Standards
- ASTM Colorado Plateau RVP Standards
- Cleaner Burning Gasoline Year-Round
- Cleaner Burning Gasoline May-Sept
- Oxygenated Fuel October - March



Revised August 2007  
Revised August 2012  
Author: N. Caroli

# Fuel Quality Inspections

750 inspections  
2070 tests  
550 sent to laboratory

- Water
- Octane, ethanol
- PTDs
- Dispenser compatibility
- Skimmers
- Dispenser/tank label
- Samples to lab ASTM standards



# Fuel Quality Violations

- ▣ Dispenser Compatibility
  - NTEP approved  
(<http://www.ncwm.net/certificates>)

- ▣ Water in fuel

- ▣ Fuel does not meet  
ASTM standards



# Fuel Quality Violations, cont...



- ❑ Missing octane, ethanol labels
- ❑ Missing tank labels
- ❑ Selling lower octane than advertised
- ❑ Missing PTDs



# Other Common Violations

Pricing displays  
not legible



Meter jump  
Meter creep  
Calibration

# Other Violations, cont....



General  
maintenance/  
safety issues

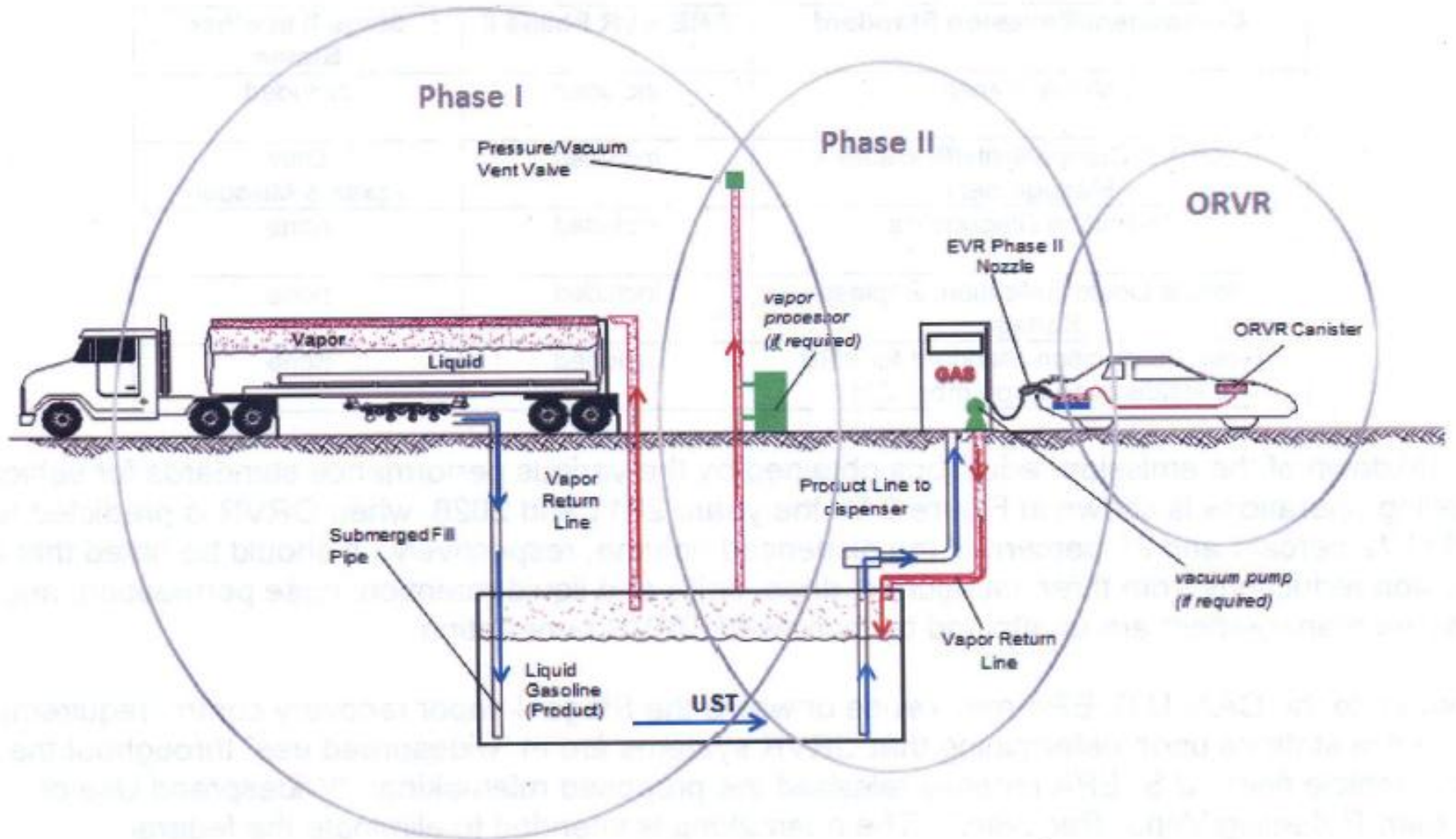


# Future Changes

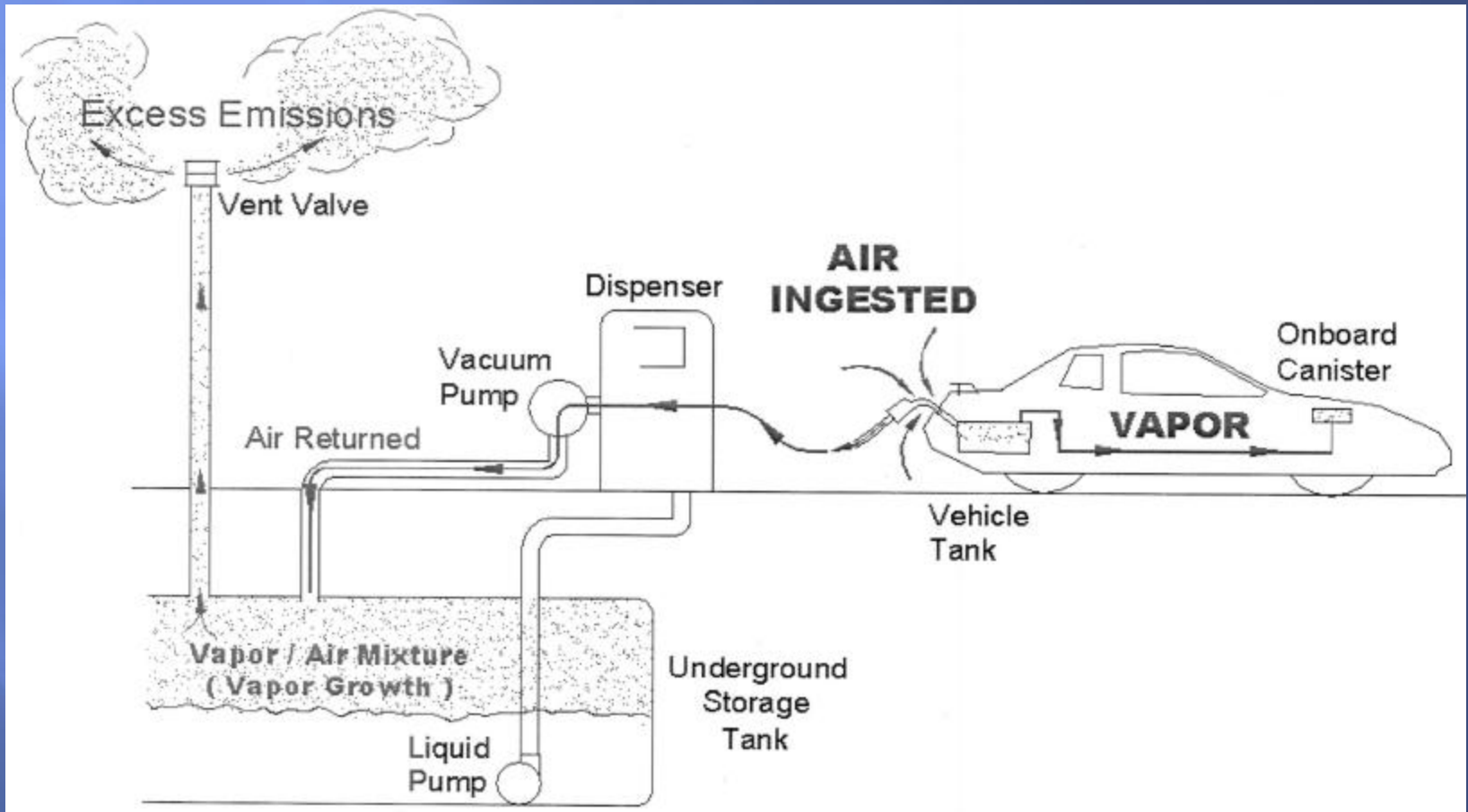
- ▣ Decommissioning of Stage 2 Vapor Recovery (Area A)

**Figure 1**

**Phase I, Phase II & ORVR Vapor Recovery Operations  
at California Service Stations**



# Incompatibility between ORVR and Stage II systems



# EPA widespread use determination

- ▣ Final rule May 16, 2012 (77 FR 28772)
- ▣ Guidance document on removing Stage II from State Implementation Plan August 7, 2012
- ▣ States may choose (but are not required) to remove Stage II from their SIP

# Stage II Vapor Recovery

## ▣ Stakeholder Meeting November 2012

Action	Anticipated Date
Prepare and submit the SIP revision removing the Stage II program from the SIP	January to December 2013
Modify the applicable statute(s) requiring the use of Stage II vapor recovery equipment	January to September 2014
EPA Review/Approval of SIP	January 2014 to July 2015
Modify rules to reflect decommissioning of Stage II and requirements for remaining Stage I systems	January 2014 to July 2015
Decommission Stage II equipment	January 1, 2016 to December 31, 2017

## ▣ Summary of Stage II program changes on website:

<http://www.azdwm.gov/BUSINESS/VaporRecovery/StageIIProgramChanges/tabid/362/Default.aspx>





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