## Maricopa County Air Quality Business Assistance

Rule 353 – Gasoline Dispensing Operations





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- <u>Title V</u>
- Non Title V
- <u>General</u>
- <u>Earthmoving</u>
- Open Burn







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General permits are best suited for the regulation of numerous, very

similar, and generally smaller facilities and sources

Benefits: Permitting process is simpler and less expensive

- **Dry Cleaners**
- Fuel Burning (boilers and heaters)
- **Gasoline Fuel Dispensing Operations** ۲
- **Graphic Arts**
- Stationary Dust-Generating Sources Woodworking Operations

**Stationary Emergency Internal** 

**Combustion Engines** 

- **Surface Coating Operations** 
  - Vehicle & Mobile Equipment Finishing

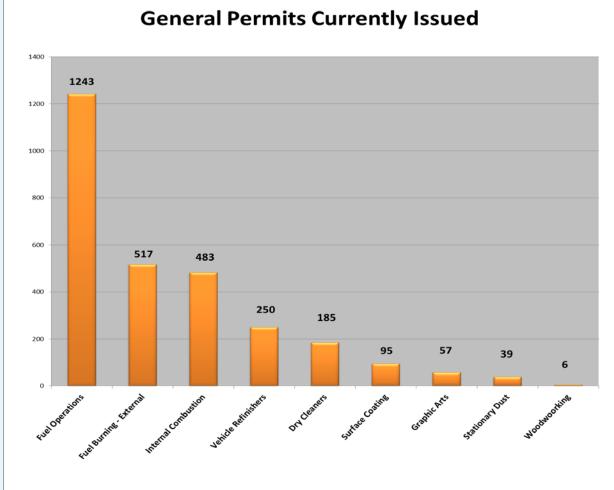


Maricopa County Air Quality Departmen

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About My Permit

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- All General Permits issued for a term of <u>5 years</u>.
- Each <u>type</u> of general permit expires on the same date
- All Gasoline dispensing operations permits will expire on 11/3/2018

Permit Number: G11139 Issue Date: 05/19/2011 Expiration Date: 11/03/2018

Air Quality Department 1001 N Central Ave, Suite 400 Phoenix, AZ 85004 William Wiley, Director		Permit Number: G11139 Issue Date: 05/19/2011 Expiration Date: 11/03/2018	
	Air Quality General Pe hority to Operate and/or Gasoline Dispensing Ope	Construct	
C/	JIKTRIP CORPORATION D LAURA THOMPSON PO BOX 3475 ILSA, OK 74101		
PREMISES: QUIKTRIP #1408 2250 E THOMAS RD PHOENIX (480) 797 - 8363		SOURCES: GAS RE-SALE	
This Authority to Operate (ATO) is Control Regulations, Rules 200, 23			
The attached Permit Conditions are Operate under the General Permit. the ATO was issued to you.		ntegral part of this Authority to pay an annual fee based on the date	
	needed to provide for the contin	g, modeling and/or control of emissions nued protection of public health, safety Permit.	
	a County Air Pollution Control R determines that significant misr led to obtain this ATO. There a mit conditions or any Federal R	egulations or the attached Permit epresentation exists in the application e civil and criminal penalties you may egulations, State Regulations, and	
For any questions regarding this pe (602) 506-6010	ermit, please contact Maricopa C	county Air Quality Department at	



Maricopa County

#### AN AIR AKE ORE CONSIDER HOW DO I renew My Permit? REDUCE WOODBURNING MORE RIDE THE BUS MINING

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Maricopa County Air Quality Department 1001 N Central Ave, Suite 125, Phoenix, AZ 85004 Phone (602) 506-6010 Fax (602) 372-0587 AQPermits@mail.maricopa.gov

#### L PERMIT - RENEWAL APPLICAT

RENEWAL APPLICATION FOR THE AUTHORITY TO OPERATE UNDER A GENERAL AIR QUALITY PERMIT (As required by A.R.S. §49–480 and Maricopa County Air Pollution Control Regulations, Rule 200)

1. Existing Permit )	Number:		Perm	nit Expiration Dat	e:
2. General Permit 7	Гуре				
Dry Cleane	er [	Gas Station		Surface Coating (	Operations
Fuel Burni	ng [	Stationary Dust-Generating Source	es 🗌	Vehicle & Mobile	Equipment Refinishing
Graphic A	rts [	Stationary Emergency IC Engines		Woodworking	
<ol> <li>Will there be any changes to the operating scenario(s) existing permit?</li> </ol>		the operating scenario(s) from those d	fined in the	Yes 🗌 No	If you answered Yes to any
<ol><li>Will there be any new, modified, or reconstructed stationary se pollution control equipment from those defined in the existing</li></ol>				Yes 🗌 No	of Questions 3 - 6, please contact the department for
5. Are there any emissions present that have not been or defined in the existing permit?			ied and	Yes No	assistance in determining th applicability of the general permit.
6. Will there be any	changes that	t trigger any other new applicable requ	irements?	Yes 🗌 No	permit.
7. Has the ownersh transferred?	up of this fac	ility changed since the permit was last	issued or	Yes 🗌 No	If Yes to Question 7, submit a Permit Transfer Application
8. Business Name (					
Arizona Corpora	tion Commi	ision):			
9. Address of Site:	City:		State:	Arizona	Zip Code:
	Name:				
10. Contact at Site:	Phone:	Alt Phone:	1	Email:	
11. Name and	Name:				
Address of	Address:				
Ownership or Legal Entity:	City:		State:		Zip Code:
	Name:		Criatica		The code:
12. Ownership Contact:	Phone:	Fax:		Email:	
Contact	Name:	1.48x.		Istimit.	
13. Send all	Address:				
correspondence			C+-+		Zip Code:
to: City:			State:		
	Attn:				
		ENT TO EMAIL ADDRESS PROVI	DED IN ITEM I	4 BELOW.	
	contact pers	on regarding this application is:			
Name:			Phone:		
Title:			Company:		
Email:					
provided herein	are true, acc	ith the operations and equipment repre- urate, and complete based on informa			
		of responsible official:			
Signature of own responsible office				Date:	
For Office L		Date Received:	Lor?	Number:	
General Permit Renewal			1.508.5		Page 2 of 2

- If there are no changes or modifications to your permit - you can submit this one page renewal form (link can be found on the information page)
- There is **no fee** for the renewal application.

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**Permit Questions?** 

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Q: What happens if I lose my permit, can I get a copy?A: Yes, just fill out a records request form and one will be mailed or emailed to you

(link on information page)

Q: What does it cost?A: There are no fees to get a copy of your permit

Q: Do I have to post it?A: Yes, please post it with all of your other permits – someplace conspicuous



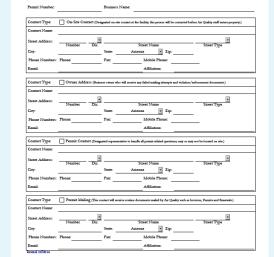


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Permit Questions?

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- What if I need to make changes to my permit?
  - Some changes that do not need a modification: (Contact update form)
    - Contact information changes
    - Owner address changes
    - Mailing address
  - Some changes that need a permit revision (Modification form):
    - Ownership change
    - Process change that triggers a new requirement



Maricopa County



Air Quality Department

Note: If you are unsure about a change please contact the Business Assistance Coordinator Maricopa County at 602-506-5102 or AQbusinessassistance@mail.maricopa.gov

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County Rules

IN THE CONSOLIDATE

## **RULE 353**

#### **GASOLINE IN STATIONARY DISPENSING TANKS**

**PURPOSE:** To limit VOC (volatile organic compound) emissions from gasoline stored in stationary dispensing tanks, and from gasoline delivered into such tanks.

**APPLICABILITY:** This rule is applicable to gasoline stored in or transferred into any stationary dispensing tank with a capacity of more than 250 gallons (946 I). This includes gas stations and other gasoline-dispensing facilities, including those located at airports.



Maricopa County Air Quality Department

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*Violations (2010-2015) 646 Violations*  INSINGRE CONSOLIDATE

- Section 301 Spill Containment violations
   290 violations Holes, cracks, foreign material
- Section 302 Fill Pipe violations
  - 90 violations Fill pipe distance from the bottom
  - 44 violations Fill pipe cap damaged or gasket missing
- Section 502 Recordkeeping
  - 144 violations Not readily available, missing inspections, fuel throughput

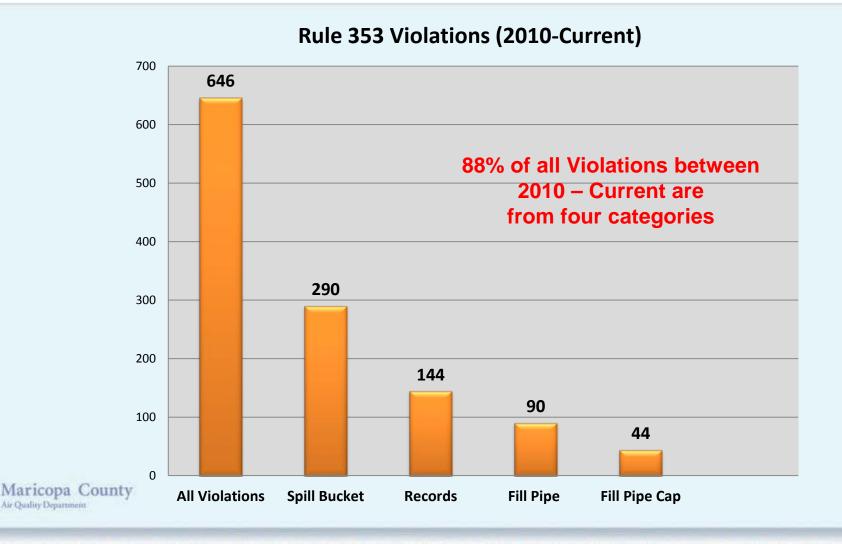


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## Violations

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- When the inspector comes on site Head straight for managers office or the site contact
   ✓ Introduction
  - ✓ Identification
  - ✓ Inspection Rights
- The Inspection
   ✓ Administrative records review
   ✓ Site walk around

	Maricopa County Air Quality Department
	1001 N. Central Avenue Suite 125
Maricopa County	Phoenix, AZ 85004
Air Quality Department	Phone: (602) 506-6010 Fax: (602) 506-2537
NOTICE OF IN	ISPECTION RIGHTS
Applicable to small businesses lar	rge businesses, and all regulated activities
C(2)+/	B
Notification Holder	
Date: Time:	Pennit/Notification Number:
Inspector:	Phone:
If you have any questions, you may contact the inspector's supervisor	* at phone number: 602.506.6734
1. The Maricopa County Air Quality Department (bareinafter "department") rep	presentative(s) identified above was/ware present at the above regulated site at the above
insted date and time. Upon entry to the premises, the department represent employee(s) and explained that:	ative(s) mat with me, presented photo identification indicating that they are a department
* The purpose of this inspection is:	
<ul> <li>To determine compliance with Arizona Revised Statutes (A.R.S. Title 49</li> </ul>	, Chapter 3, Article 3) and/or Maricopa County Air Pollution Control Regulations.
<ul> <li>To determine compliance with an Air Quality Permit issued pursuant to A</li> <li>To determine compliance with an administrative or judicial order issued p</li> </ul>	LR.S. § 49-480, and Maricopa County Regulations Rule 100, Section 105. pursuant A.R.S. § 49-491, § 49-511, § 49-512.
<ul> <li>This inspection is being conducted pursuant to A.R.S. § 49-473, § 49-474, order. There are no direct fees for this impaction.</li> </ul>	§ 49-488, and/or the inspection and entry provisions in an Air Quality Permit or conditiona
2. I understand that I may accompany the department representative(s) on the pre-	mises, except during confidential interviews.
<ol> <li>I understand that I have the right to copies of any original document(s) taken of department's expense.</li> </ol>	faring the inspection, and that the department will provide copies of those documents at the
<ol> <li>I understand that I have the right to request copies of any documents that will 8 agency is permitted by law to release such documents. Instructions for request</li> </ol>	be relied upon to determine compliance with licensure or regulatory requirements, if the ting records are available at <u>unux maricopa gov/aq/contact_us/public_records/Defruit.asp</u> x
agency is permitted by law to release such documents. Instructions for request	be relied upon to determine compliance with licensure or regulatory requirements, if the sing records are available at your manicopa geoing contact, as public, records Definition appr section, if the split of the sample(s) would not prohibit an analysis from being conducted or
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## **Administrative:**

- Permit
  - Is the permit current?
  - Fees paid?
  - Posted in a conspicuous location?

## Inspection Logs

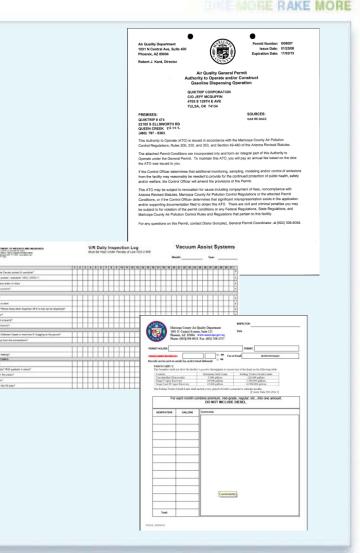
- Are the inspections current and complete?
- When did the last inspection occur?
- Performance test

#### Throughput Records

 Rolling annual total of gasoline delivered (48 hours to submit)



Maricopa County Air Quality Department





WALK MORE USE CFLS

Daily Inspection Log

INCOMPRE CONSOLIDATE

- Rule 353
  - Only requires weekly inspections
  - If deliveries are less than once per week, the inspection only needs to be completed at the time of the delivery



Make it easy on yourself

and the inspector

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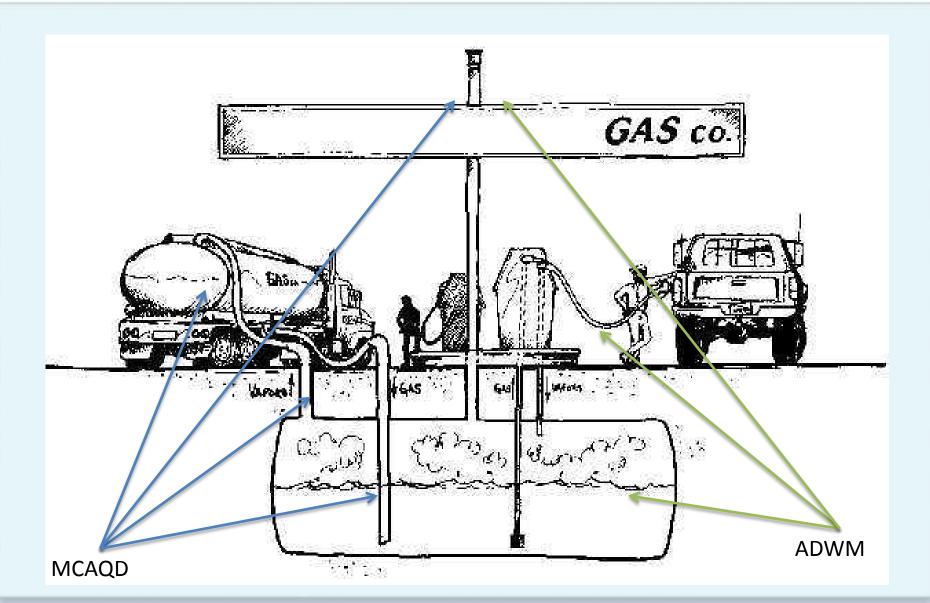
- Keep records organized
  - Possibly in a notebook or file
- Educate all employees on what to expect if an inspector shows up.
  - We may conduct the inspection even when the site contact is not present



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## Area of Responsibility

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**On-Site Inspection** 

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**BASIC TANK INTEGRITY:** No vapor or liquid escapes are allowed through a dispensing tank's outer surfaces, nor from any of the joints where the tank is connected to pipe(s), wires, or other system.



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**On-Site Inspection** 

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Tank inspection

 Pressure Vents



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MORE CONSIDER SOLAR Pressure / Vacuum Vent

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**On-Site Inspection** 

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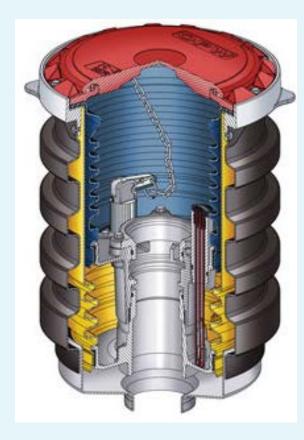
- Tank inspection
  - Pressure Vents
  - Spill containment receptacles
    - Free of foreign debris
    - Free of cracks
    - Drain valve functioning





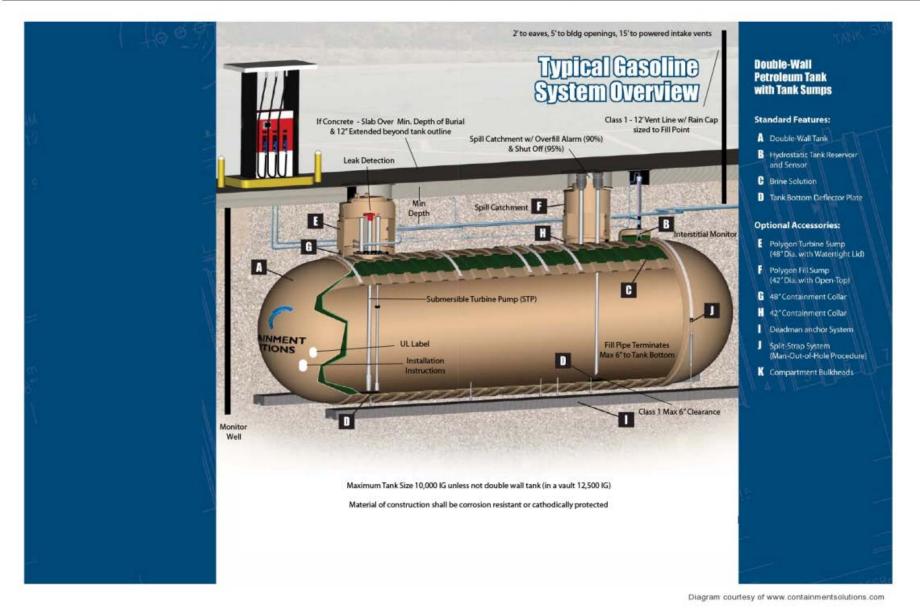
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## • Spill Containment Receptacles





#### STORAGE TANKS - Typical Gasoline Underground Double Wall Tank



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**On-site Inspection** 

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- Make sure that the spill containment receptacles are free of gasoline and foreign debris
  - Note: The vapor recovery side is exempt from this requirement. The vapor recovery side can have water and foreign debris. There are stations where the spill containment receptacle is dirt.

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## Foreign Debris

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Foreign Debris

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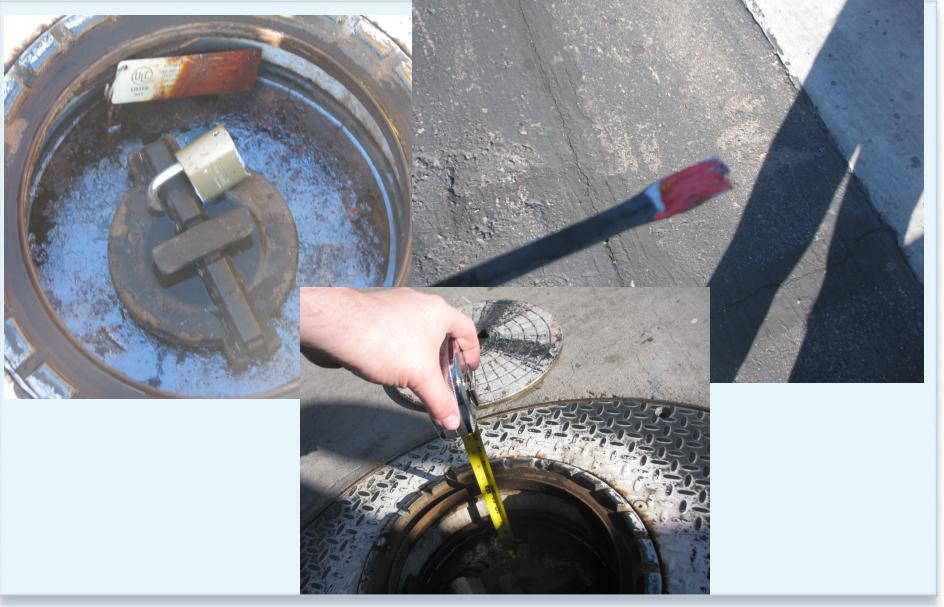


# **CLEAN AIR**

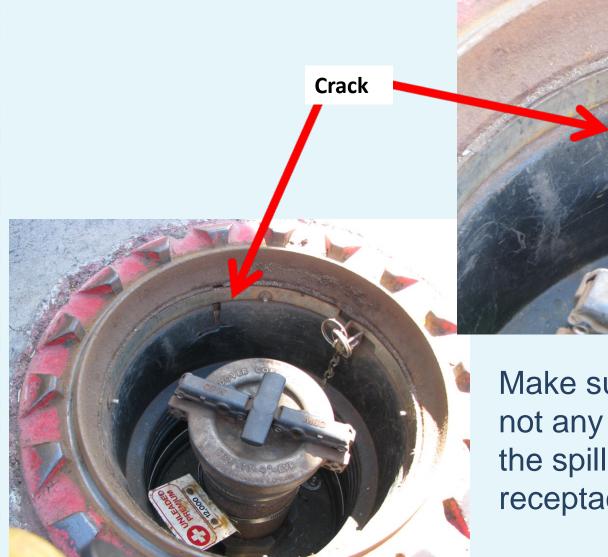
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## Foreign Debris

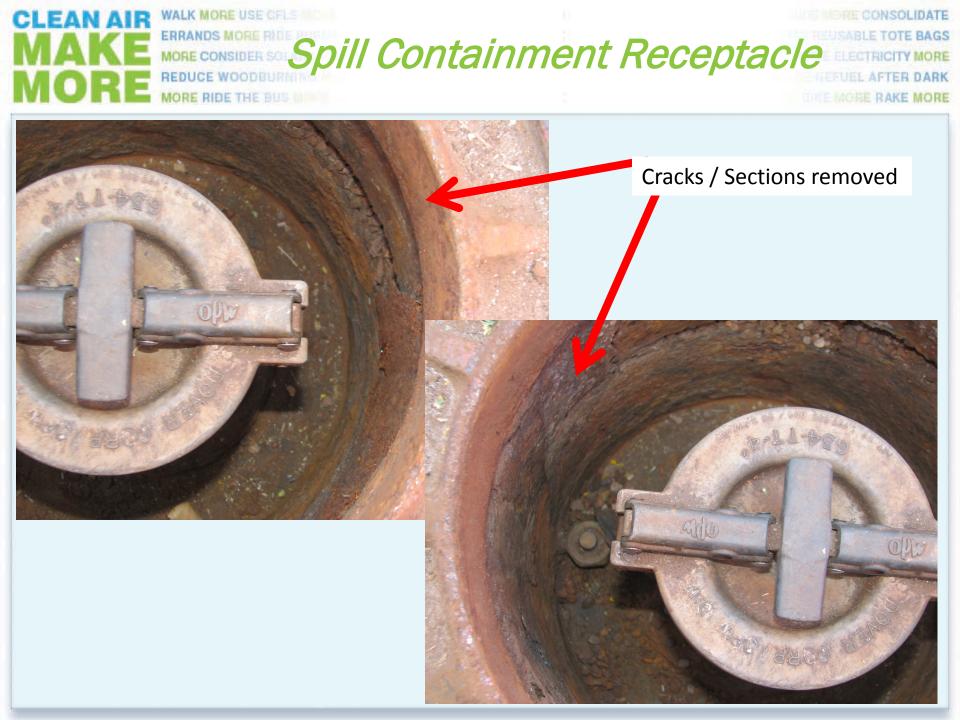
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Make sure that there are not any cracks or holes in the spill containment receptacle



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Plunger Assembly

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Plunger Assembly

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**On-Site Inspection** 

HIDS MORE CONSOLIDATE INTREUSABLE TOTE BAGS INTRVE ELECTRICITY MORE INTERVEL AFTER DARK INTE MORE RAKE MORE

- Tank inspection
  - Pressure Vents
  - Clean spill containment receptacles
  - Gaskets installed



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## Missing Gasket

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**On-Site Inspection** 

HIDE MORE CONSOLIDATE INFREUSABLE TOTE BAGS HIDVE ELECTRICITY MORE HERVEL AFTER DARK DUCE MORE RAKE MORE

- Tank inspection
  - Pressure Vents
  - Clean spill containment receptacles
  - Gaskets installed
  - Fill pipe measures less than 6" from the bottom



WALK MORE USE CELS MORE ERRANDS MORE RIDE PUELL MORE CONSIDER SOLAD REDUCE WOODBURNING H MORE RIDE THE BUS MORE

Fill Pipe / Drop Tube

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Fill Pipe / Drop Tube

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WALK MORE USE CFLS MORE ERRANDS MORE RIDE PUP DU MORE CONSIDER SOLATION REDUCE WOODBURNING H MORE RIDE THE BUS MORE

Fill Pipe / Drop Tube

HIDE MORE CONSOLIDATE INTREUSABLE TOTE BAGS DETIVE ELECTRICITY MORE DETIVE AFTER DARK EINE MORE RAKE MORE

- Fill pipes must be less than 6" from the bottom of the tank
  - This is to minimize vapor escape via fill pipe
  - Some fill pipes are cut at an angle increase delivery time



WALK MORE USE CFLS MORE ERRANDS MORE RIDE PUP DU MORE CONSIDER SOLATION REDUCE WOODBURNING A MORE RIDE THE BUS MORE

**On-Site Inspection** 

HIDE MORE CONSOLIDATE INTREUSABLE TOTE BAGS HIDVE ELECTRICITY MORE HERVEL AFTER DARK DUILE MORE RAKE MORE

- Tank inspection
  - Pressure Vents
  - Clean spill containment receptacles
  - Gaskets installed
  - Fill pipe measures less than 6" from the bottom
  - Poppet Valve recovery



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## Poppet Valves

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## Vapor Recovery hoses

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**On-Site Inspection** 

HIDE MORE CONSOLIDATE INTREUSABLE TOTE BAGS HIDVE ELECTRICITY MORE HERVEL AFTER DARK DUCE MORE RAKE MORE

- Tank inspection
  - Pressure Vents
  - Clean spill containment receptacles
  - Gaskets installed
  - Fill pipe measures less than 6" from the bottom
  - Poppet Valve recovery
  - Fill pipe assembly is tight and does not turn



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Fill Pipe / Drop Tube

HIDE MORE CONSOLIDATE INTREUSABLE TOTE BAGS HIDVE ELECTRICITY MORE HEFUEL AFTER DARK DUILE MORE RAKE MORE

- Twist the riser assembly to determine if it is "tight"
  - If the assembly is a non-swivel type, it should not move
  - If it is a swivel, it will turn but should not tighten or unscrew

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Fill Pipe Seals

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Damage or missing seals



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Fill Pipe Tightness

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- Fill pipe "tightness" is based on inspector application of the term "tight" in the absence of a certified individual
- If the facility has the ability to verify through the certification that the system is compliant, we will defer to that individual



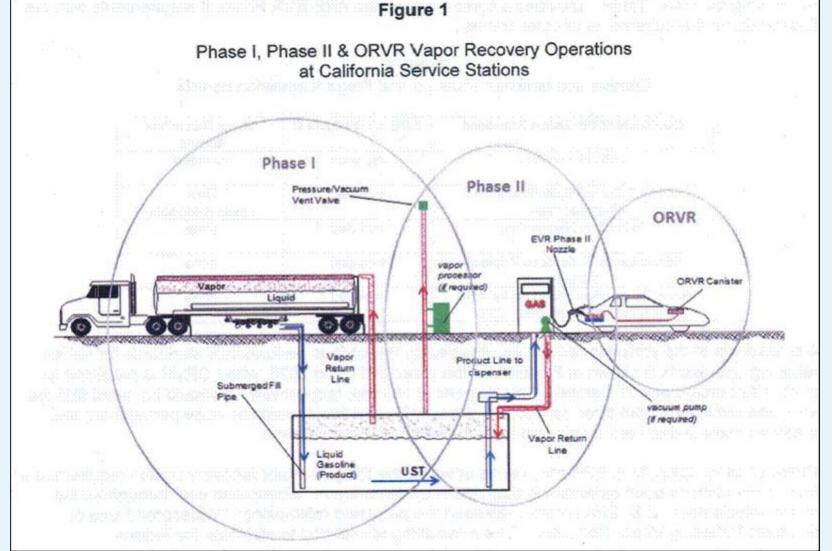




- Not required to have spill containment receptacle.
  - If it is installed, it must comply with regulations for underground storage tanks







CLEAN AIR MAKE MARE USE CFLS MORE ERRANDS MORE RIDE PURITIE MORE CONSIDER SOLAT REDUCE WOODBURNING A MORE RIDE THE BUS MINING			INCOMORE CONSOLIDATE INTREUSABLE TOTE BAGS INTRE ELECTRICITY MORE INCOME FUEL AFTER DARK INCE MORE RAKE MORE		
Responsibility	Stage I Vapor Recovery	Stage II Vapor Recovery	Vehicle On Board Vapor Recovery		
Maricopa County A Quality	Air Requires Vapor Decay Testing (TP- 201) every 3 years on facilities greater than 100,000 gallons per any month	No responsibility	No responsibility		
Arizona Departmer of Weights & Measures	Vapor Valve Testing) o	Conducts Testing (TP-96.1 Vapor Decay & Vapor Valve Testing) on all facilities within Area A greater than 10,000 gallons/monthNo res			
Air Quality accepts 6C)	the TP-96.1 testing as an a	Iternative allowable und	er 40 CFR 63 (NESHAP		

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Performance Testing

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http://www.azdwm.gov/Portals/1/PDF/AreaA\_Map.pdf

## Performance Testing

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	F	tment of Weights and Vapor Recovery Pre-Test Checklist	164	st Date	
	Site Location Name Address # City, State, & Zip	N	esting Company lame ddress City, State, & Zip	RSR No	
Type of VR System:	Balance XVapo			Hint Hasstech	
Call Actual Tank Size (gal) Gallons Ullage Ullage%	87 UNL 2	Cated     Vent pipe       1     89 MUL       1     Tank Size       2     Gallons       2     Ullage       Ullage%	Color Unz Tenk Siz Galions Ullage Ullage%	20 19951 15-344 4507	
Test Criteria: Total Tank Capacity	39902 Total Gall	2 stud a	Total Ullage 12	240	
Total Uliag	e 12240 X5min/1000 Ga	1 = 61200	Length of Test <u>65 min</u>	Pre Test Completion Checklist: Communication P Results (GS)	
Tank Pad Inspection:	Spill Bucket     Spill Bucket       Property     Clean &       Grade     Installed & Tested     Dry       87     X     N     X       87     X     N     X       89     Y     N     Y       91     Y     N     Y       Y     N     Y       Y     N     Y	Spill Bucket       Drain       Opgrable       N     N       N     N       N     Y       N     Y       N     Y       N     Y       N     Y       N     Y       N     Y       N     Y       N     Y       N     Y       N     Y       N     Y	Fill Vapor Caps & Gaskets Y N Y N Y N Y N Y N	PV Checked     Results     Results       Dry & Clean     Liquid Slockage     Results     Does       Tost Dry Brakes     Results     Des	lue)9,98
Was the system tested a	ty's vapor recovery system and equilibrium	No No Content, including hases, no	en refer to comment sheet ) Chi lozzles, dispensers, vapor return t the Facility is ready for its annu	gpm checked Results 1953 ecked Vapor Pot Results 1955 n line and tanks, have been ual test,	
Tester Signature	<b>.</b>	Date		40 CFR 63.11120 (a)(1) repute Pressure Vacuum vent value rate and cracking pressu 40CFR 63.11120 (a)(2) is a Z column test. ADWM Reput 10 "water column pressure decay	"water ires a

**CLEAN AIR** 

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REDUCE WOODBURNING

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# Stage II Vapor Recovery



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Stage II Vapor Recovery

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- On September 17, 2013, EPA indicated that it had reevaluated the approach for this region to remove Stage II vapor recovery
  - Maricopa area has not yet attained the 2008 eighthour ozone standard (0.075 ppm) and has a 2015 attainment date as a Marginal Area
  - Focus should be on attaining the standard by 2015, rather than on using off-sets for temporary emission increases during the same time period that the area should be attaining the standard



Maricopa County Air Quality Department



Stage II Vapor Recovery

IDE MORE CONSOLIDATE

- November 15<sup>th</sup>, 2013 EPA made a determination that:
  - Beginning in 2014
    - new resale and non-resale gasoline dispensing facilities will no longer be required to install Stage II Vapor Recovery.
  - Beginning October 1<sup>st</sup>, 2016 and continuing through September 30<sup>th</sup>, 2018
    - All stage II vapor recovery systems will be decommissioned at existing facilities



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MORE CONSIDER SOLAR STAGE II Vapor Recovery

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### **Regionwide Increase in Emissions** from Removal of Stage II Controls

Stage II Removal Schedule at New and Existing	Emission Increase from New Facilities (metric tons/day)		Emission Increase from New and Existing Facilities (metric tons/day)			2014-2019 Summed Emission Increase (metric	
Gasoline Dispensing Facilities	2014	2015	2016	2017	2018	2019	tons/day)
New in 2014, Existing in 2016-2017	0.015	0.019	0.094	0.054	0	0	0.182
EPA Suggested Schedule: New in 2014, Existing in 2017-2018	0.015	0.019	0.015	0.024	0.036	0	0.108
New in 2014, Existing in Oct. 2016-Sept. 2018 (after 2016 ozone season)	0.015	0.019	0.015	0.031	0.023	0	0.102
Retain Stage II Controls	0	0	0	0	0.108	0.244	0.352

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Stage II Vapor Recovery

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- There will not be a change to the inspections that Maricopa County Air Quality conducts
- The decommissioning requires Weights & Measures to change their regulations to specifically remove "Stage II" from state law
- They will continue to conduct testing on all facilities annually





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Important Numbers

HIDE MORE CONSOLIDATE INFREUSABLE TOTE BAGS INFRVE ELECTRICITY MORE INFRUEL AFTER DARK EINE MORE RAKE MORE

• Air Monitoring - 602.258.0666

### Arizona Department of Weights & Measures – 602.771.4920





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- Records request:
  - http://www.maricopa.gov/aq/contact\_us/docs/pdf/Records%20Request-Non-Commercial.pdf
- Permit Transfer Application:
  - http://www.maricopa.gov/aq/divisions/permit\_engineering/docs/pdf/Permit-Transfer.pdf
- Contact Information Changes
  - <u>http://www.maricopa.gov/aq/divisions/permit\_engineering/docs/pdf/ContactUpdateForm.pdf</u>
- Rule 353
  - <u>http://www.maricopa.gov/aq/divisions/planning analysis/rules/docs/353-9906.pdf</u>
- General Permit for Gasoline Dispensing Operations
  - http://www.maricopa.gov/aq/divisions/permit engineering/docs/pdf/Gas\_Station\_General Permit.pdf

Can't find the form you looking for? Contact the Business Assistance Coordinator 602-506-5102 or AQbusinessassistance@mail.maricopa.gov



Maricopa County Air Quality Department

### Thank you for attending!





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