Gasoline Dispensing Facility Vapor Recovery System Rulemaking Rulemaking Advisory Committee Meeting #2 DEQ Air Quality Planning

April 18, 2023 Remotely Held Meeting



Introductions

- Hello and welcome
- Introductions

 DEQ Staff & Facilitator
 Rulemaking Advisory Committee members
- Purpose of meeting



Rulemaking Resources

https://www.oregon.gov/deq/rulemaking/Pages/GDF2022.aspx

Primary Rulemaking Contact:

Heather Kuoppamaki

Heather.kuoppamaki@deq.oregon.gov

503-407-7596



Agenda

Time	Item			
Noon	Introductions: Introductions and agenda review			
12:05 p.m.	DEQ presentation: Meeting 1 review and response			
12:20 p.m.	Discussion: Meeting 1 review and response			
12:35 p.m.	DEQ presentation: Options Analysis			
1:15 p.m.	Discussion: Options Analysis			
1:30 p.m.	DEQ presentation: Additional Options			
1:40 p.m.	Discussion: Additional Options, Public Input			
1:50 p.m.	Discussion: Next steps			
2 p.m.	Adjourn Meeting			



4

Anticipated Timeline





5

Review of Meeting 1

Gas Station Controls requirements

Is the juice worth the squeeze?

Stage II controls in operation

Leveling the playing field

Additional requirements for larger gas stations



Stage I, Stage II, and On Board Vapor Recovery Systems



Source: California Air Resources Board (edited by DEQ)





Rule requirements

Area	Stage I	Stage II	
State-wide	250 gallons (or larger) tanks	NA	
	with:		
	• 480,000 gallons or more		
	dispensed per year, or		
	• 100,000 gallons or more		
	dispensed per month		
Clackamas,	120,000 gallons gasoline or	600,000 gallons or	
Multnomah,	more dispensed per year	more dispensed	
Washington		per year	
Counties			
Portland-	1,500 gallons (or larger)	NA	
Vancouver	tanks		
Salem-Keizer			
Medford-			
Ashland			





Stage II controls

Clackamas, Multnomah, Washington Counties

Incompatible	 154 Vacuum assist 		
Compatible	 166 Balance 17 Stage II EVR 		
Stage I only	 74 no Stage II 		



10

Small GDFs





Options analysis – Minimum proposed changes in Stage II requirements

Applicability

GDFs with Stage II systems:

- 154 GDFs with incompatible systems
- 183 GDFs with compatible systems

Requirements

- Incompatible systems remove asap
- Compatible systems keep or remove

Emissions Reductions

Prevents future excess emissions



Options analysis – Minimum proposed changes in Stage I requirements Applicability GDFs with 120,000 – 480,000 gallons per year gasoline dispensed (small GDFs)

Requirements Stage I

Emissions Reductions 56 tons VOCs



Pause for questions / comments

Will the rules have a significant adverse impact on small businesses?

□ If so, how can that adverse impact be mitigated?

□ Cost estimates for installing Stage I controls?



Stage I EVR (or equivalent reductions)

Options analysis

Potential tiered requirements

ECO nozzle

Low permeation hoses







VOC reductions and % small business



Options analysis – Proposed tiered requirements

Applicability:

Existing GDFs with annual gasoline throughput 1,000,000 gallons or more and all new GDFs

Requirements:

- Stage I Enhanced Vapor Recovery
- ECO nozzles

Reductions:

Estimated VOC reductions of 271 tons per year



Pause for questions / comments

- Should DEQ add in low permeation hose requirements?
 If yes, what throughput threshold?
- **Questions about the analysis?**
- Requirements for new GDFs



Options analysis – Proposed additional requirements

Timing:

- Stage II
- Stage I
- Stage I EVR + ECO Nozzles

Top off:

- Already not allowed
- Add training requirement

Alternative controls:

- Equivalent reduction

Reporting:

- What/when to report

Testing (next slides):

Frequency Applicability



ltem	Current Requirement			
Tests	Pressure Vacuum Vent ValvesVapor tightness			
Applicability	 1.2 million gallons gasoline or more dispensed per year Initial test Retest every 3 years 434 of 1,264 GDFs 1,436 tons VOC emissions per year 			
Applicability	 Less than 1.2 million gallons gasoline dispensed per year Initial test No additional testing 830 of 1,264 GDFs 694 tons VOC emissions per year 			

Stage I Testing



21-411 tons VOC per year

Potential excess emissions (state-wide) due to failing Stage I equipment Total Increased Emissions (tons VOC per year) by Throughput Threshold and Percent Stage I Equipment Malfunction

	Annual throughput > = 1,200,000 gallons/year						
Annual throughput <1,200,000 gallons/year	% malfunction	0%	25%	50%	75%		
	0%	0	56	161	267		
	25%	21	77	183	289		
	50%	62	118	224	329		
	75%	103	158	264	370		
	100%	143	199	305	411		

23

Options analysis – Proposed additional requirements

Timing:

- New equipment
- Replacement equipment
- Stage II removal by Dec 31 2024
- Stage I / Stage I EVR / ECO nozzle by Dec 31, 2026

Top off:

- Add training requirement

Control Alternatives:

- Equivalent reduction
- On the permittee to show how it is as protective
- "mix and match" Stage I EVR
- Vapor processor
- Other controls

Reporting:

- Report all tests, including failed or aborted tests

Testing:

- Frequency
- \checkmark Annually, or
- ✓ Continuous pressure monitoring system
- Applicability
- ✓ All permitted GDFs



Pause for questions / comments

□Additional requirements?

Do any of the proposed requirements seem infeasible or unnecessary?



Pause for Public Input



Anticipated Timeline





Thank you

https://www.oregon.gov/deq/rulemaking/Pages/GDF2022.aspx

Primary Rulemaking Contact:

Heather Kuoppamaki

Heather.kuoppamaki@deq.oregon.gov

503-407-7596



Title VI and alternative formats

DEQ does not discriminate on the basis of race, color, national origin, disability, age or sex in administration of its programs or activities.

Visit DEQ's Civil Rights and Environmental Justice page.

<u>Español</u> | <u>한국어</u> | <u>繁體中文</u> | <u>Pусский</u> | <u>Tiếng Việt</u> | <u>Iu</u> Contact: 800-452-4011 | TTY: 711 | <u>deqinfo@deq.state.or.us</u>

