

Gasoline Dispensing Facility Emissions Rulemaking

Air Quality Planning Section

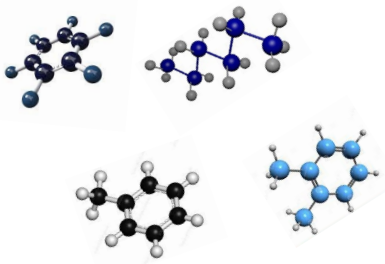
March 21, 2024

DEQ Eugene Office

165 E. 7th Ave, #100, Eugene, OR 97401

Gasoline Dispensing Facilities

GDFs emit vapors that contain compounds that contribute to the formation of smog (or ozone), as well as compounds that are hazardous.

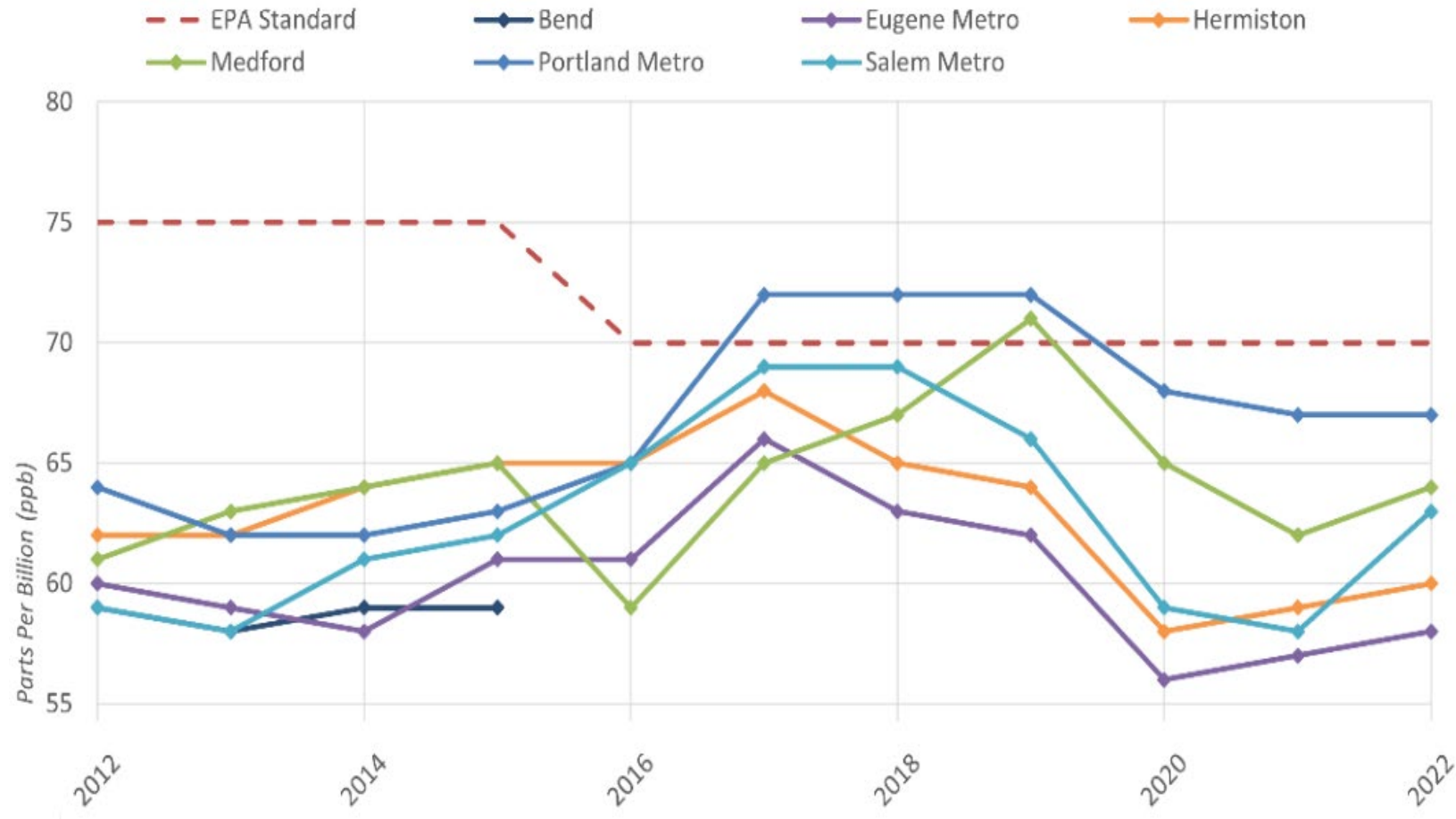


Exposures to these chemicals can have a range of impacts such as:

- increase in cumulative health risks for diseases such as cancer
- common and chronic conditions such as asthma

GDF Emissions and Fed Air Quality Standards

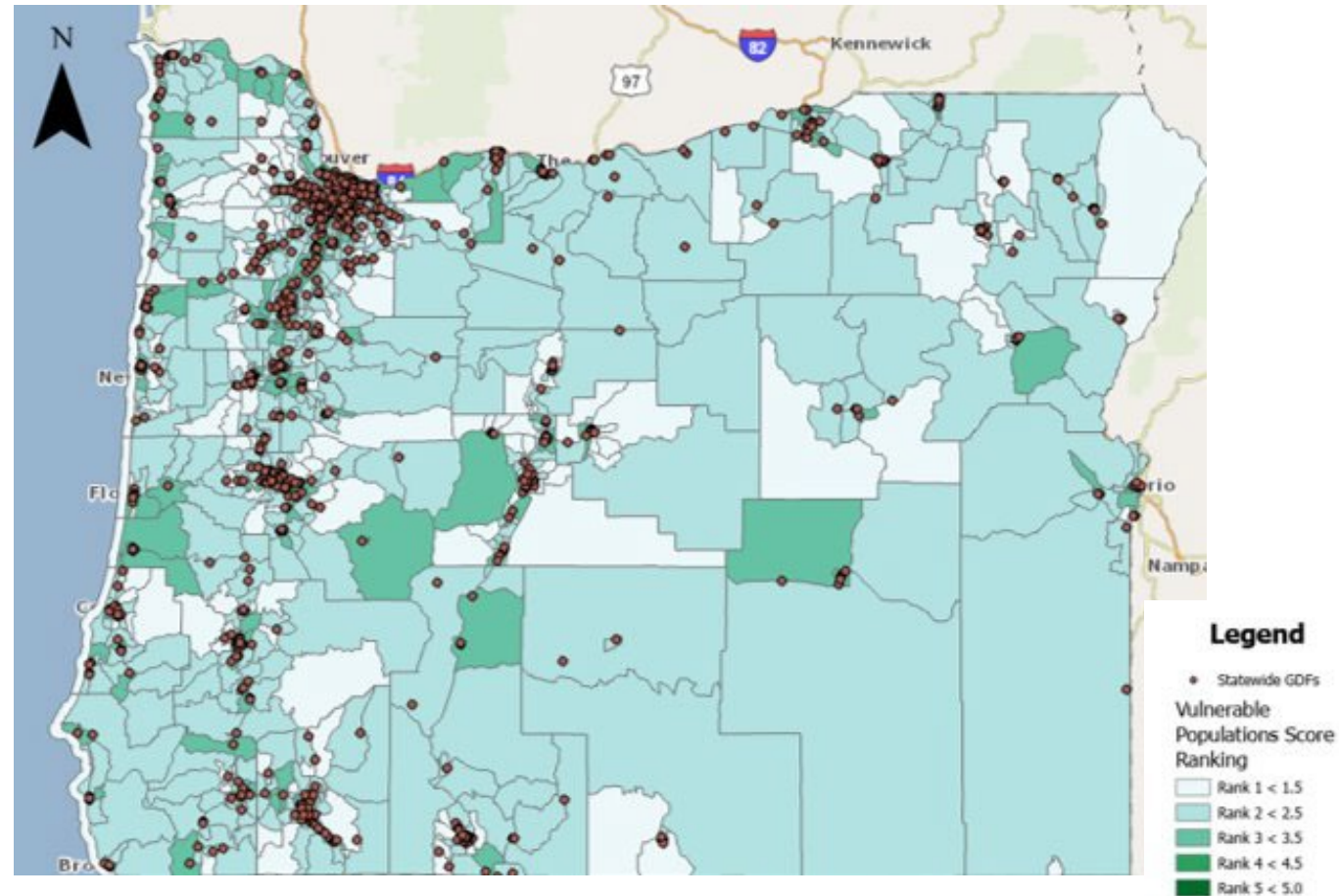
Several areas have ozone levels trending close to the allowable limit, including the metropolitan areas of Portland, Salem, and Medford.



Environmental Justice and Equity Impacts

Reducing vapor emissions helps protect the health of residents with the highest health burdens.

Areas with higher density of GDFs in Oregon often have a higher vulnerable population score.



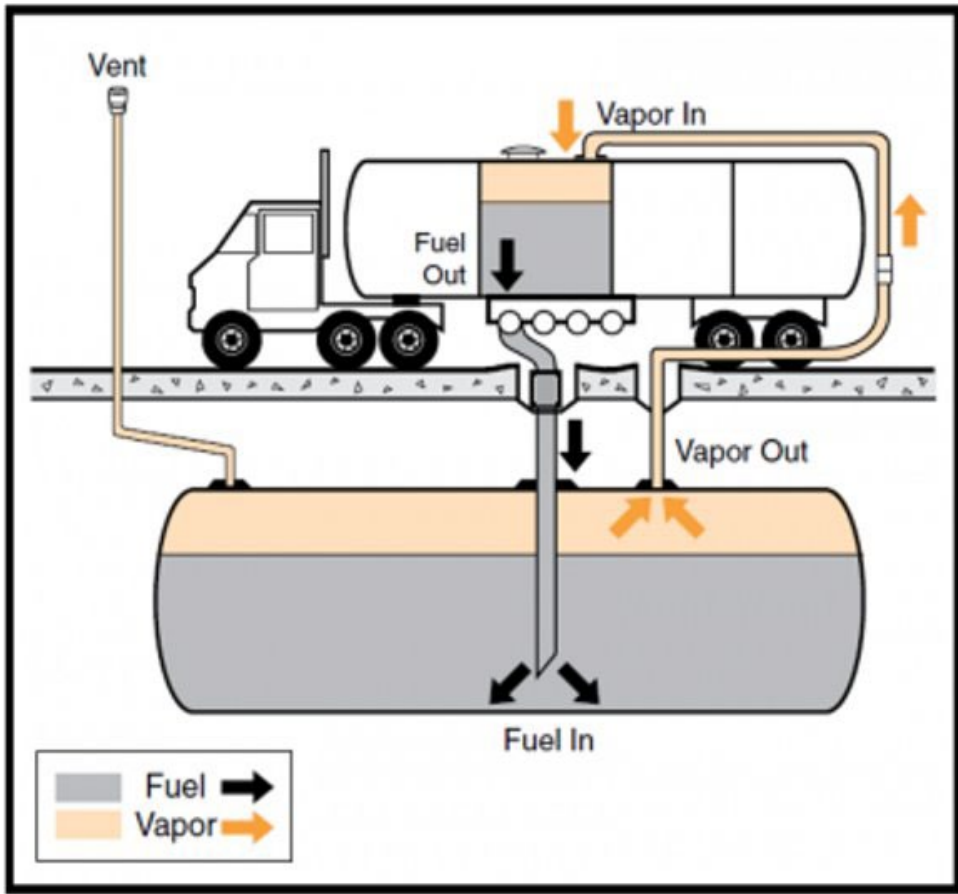
Note: darker colors indicate a higher vulnerable population score.

Rulemaking Purpose

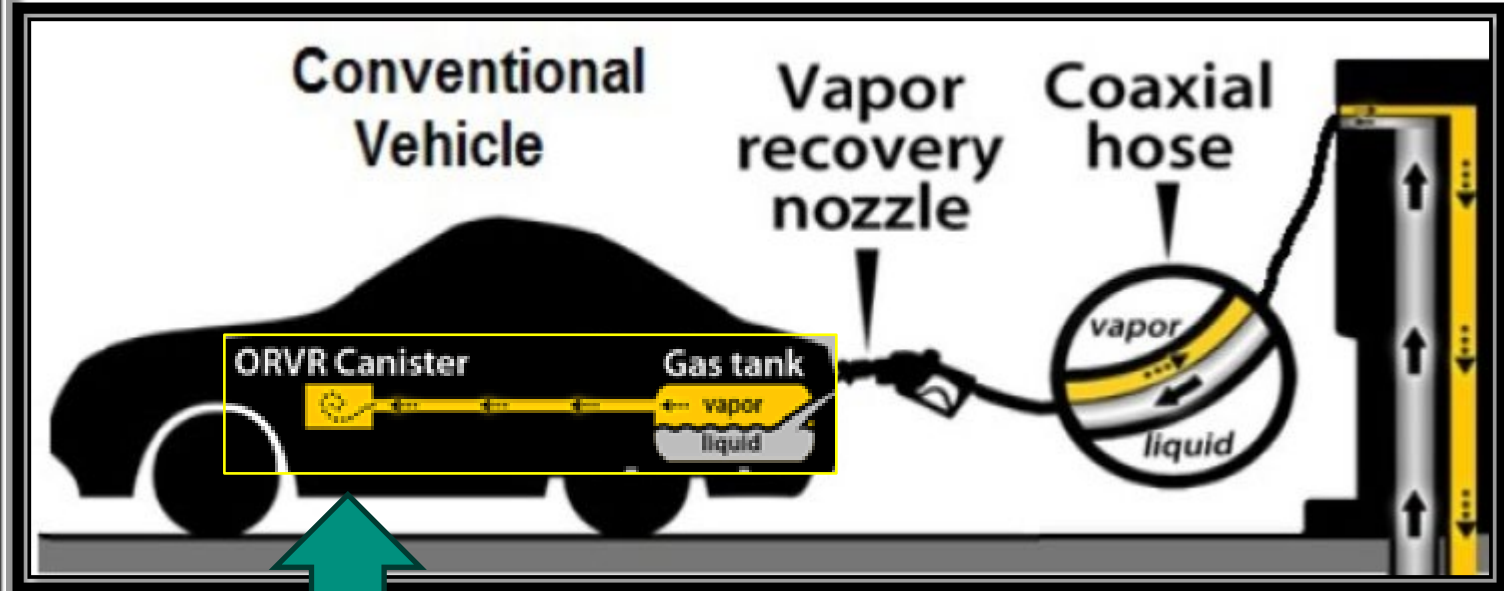
- Address forecasted emissions increase from gas stations (from incompatible equipment) in the current rules
- Review equipment/standards and reconsider baseline controls to reduce emissions and further improve air quality
- Increase consistency of requirements across the state

Gasoline Dispensing Facilities: Controls

Stage I Vapor Balance: Division 244



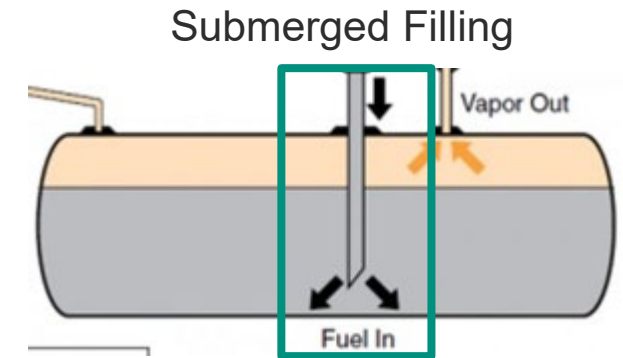
Stage II Vapor Recovery: Division 242



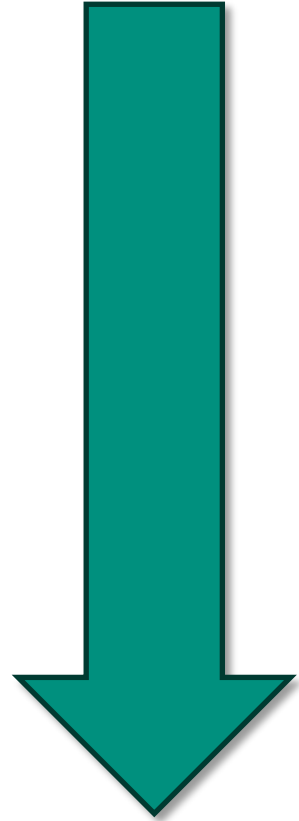
Onboard Refueling Vapor Recovery

Proposed Rule Applicability

- **GDF 1:** all gasoline storage tanks below 250 gallons
 - # Sources: Unknown
- **GDF 2:** a gasoline storage tank at 250 gallon+ capacity
 - # Sources: ~1,350
- **GDF 3:** facility with 120,000+ gallons annual throughput
 - # Sources: ~250
- **GDF 4:** facility with 600,000+ gallons annual throughput
 - # Sources: ~450
- **GDF 5:** facility with 1,000,000+ gallons annual throughput
 - # Sources: ~550



Proposed Rules: Controls and Applicability



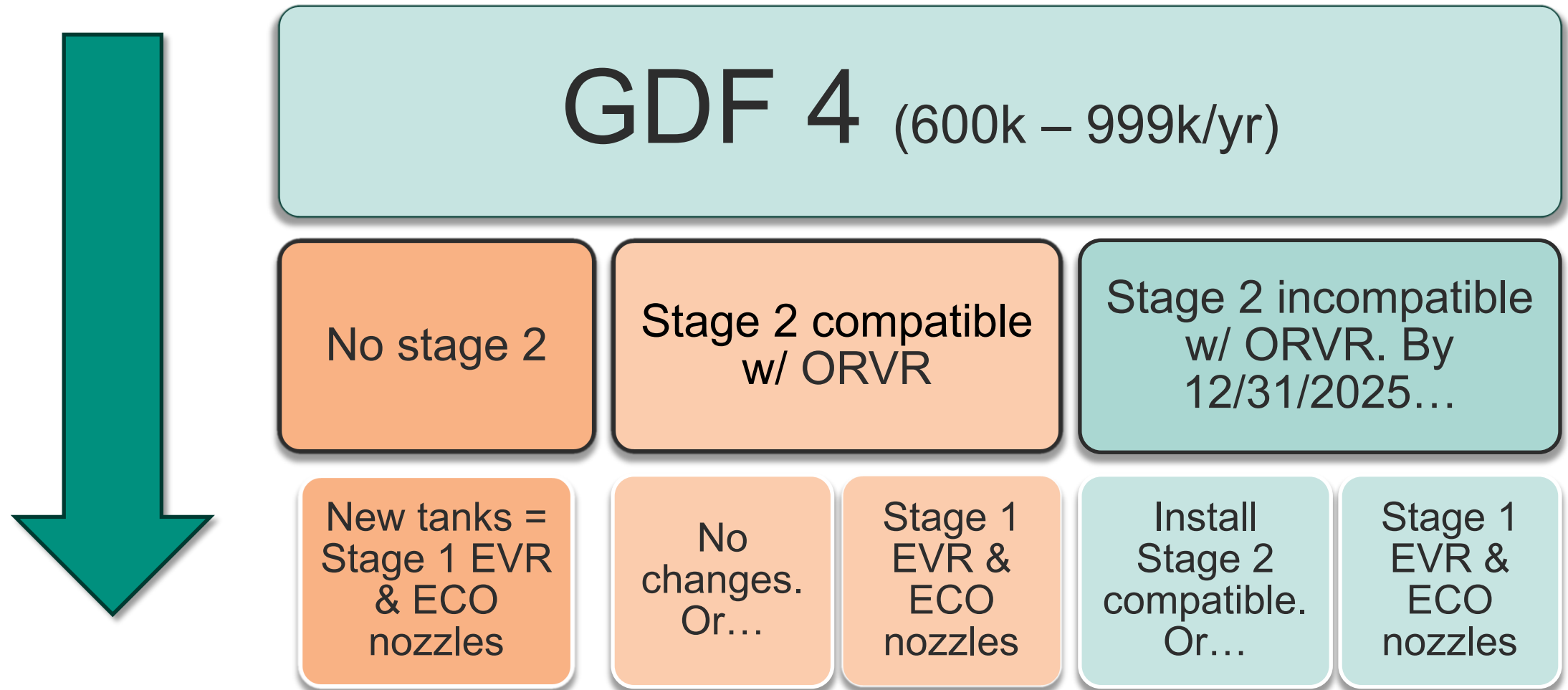
GDF 3 (120k – 599k/yr)

**New tank install requires
Stage 1 Vapor Balance**

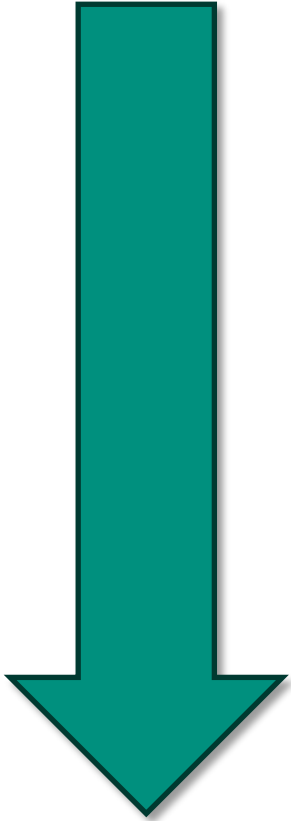
All new tanks
must be dual-
point

Existing tanks:
No equipment
changes

Proposed Rules: Controls and Applicability



Proposed Rules: Controls and Applicability



GDF 5 (1mil+/yr)

Stage 1 EVR & ECO
by 12/31/2029

Only applies to dual-
point tanks

Public Comments

- 26 public comments received
 - 18 did not suggest changes to the rules
- 19 opposed the rulemaking
 - 8 appear to misunderstand the proposed rules
 - 7 took issue with cost
- 3 supported the rulemaking

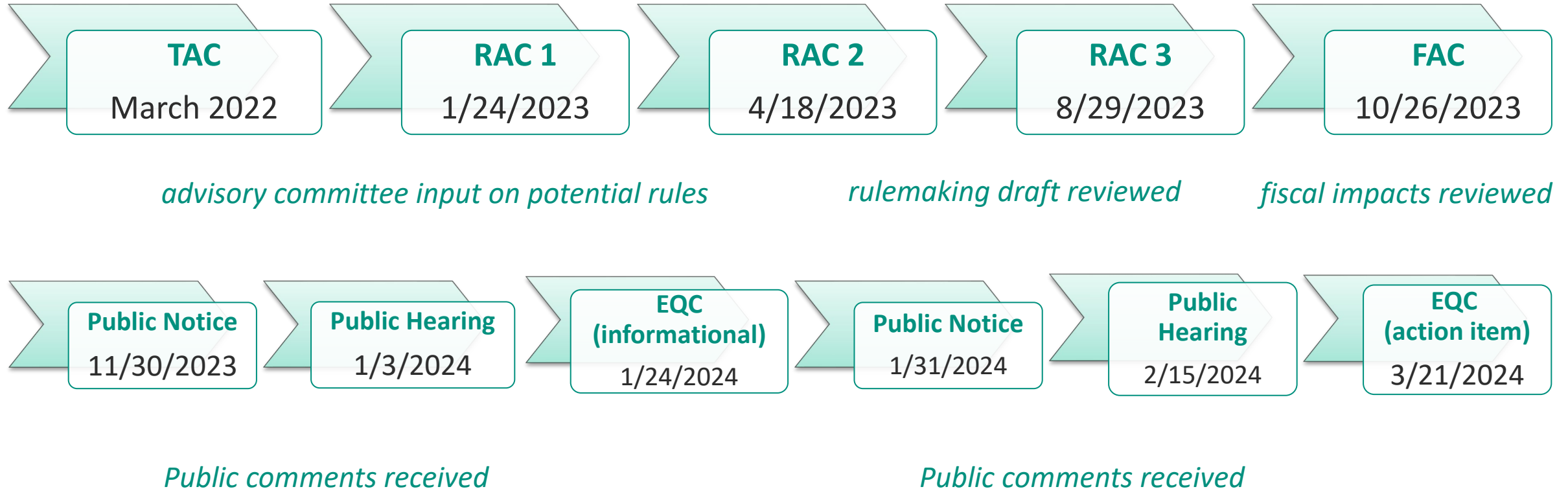
Proposed Rules: Changes from Comment

- Stage II vapor recovery. Incompatible must change to S2 compatible or S1 EVR
 - Extend due date for changes one year: 12/31/2025
 - Decommissioning must follow set procedures
- Stage 2 equipment repair timelines to mirror current Stage 1 requirements
- Update fiscal impacts: station staff review rules/permits from \$18/hr to \$28

Proposed Rules: Changes from Comment

- Clarify SIP areas not to expand
- Remove various 'DEQ approval' of alternatives to align with SIP/EPA guidance
- Update definitions for clarity and consistency: Stage 1, VB, VR, EVR, dual point S1 VB
- Various typos and clarifications
- Add PEI RP300 vapor installation to the existing note
- Add requirement for all components to be compatible with gasoline

Rulemaking Process and Timeline



DEQ Recommendation

“I move that the commission adopt the proposed rules in Attachment A and D as part of chapter 340 of the Oregon Administrative Rules; And

Approve incorporating these rule amendments into the Oregon Clean Air Act State Implementation Plan under OAR 340-200-0040; And

Direct DEQ to submit the State Implementation Plan revision to the U.S. Environmental Protection Agency for approval.”

Title VI and alternative formats

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