

# Final-Form Rulemaking: Control of VOC Emissions from Gasoline Dispensing Facilities (Stage I and Stage II)

Environmental Quality Board November 16, 2021

#### Background: Stage I and Stage II

- Stage II is a control measure used at gasoline dispensing facilities in the 5-county Philadelphia and 7-county Pittsburgh areas.
- Stage II systems were designed to mostly recover volatile organic compound (VOC) emissions that occur when vehicles refuel.
- The Stage I vapor recovery system controls emissions when the fuel truck delivers fuel.
- Stage II requirements, like leak testing, also help to control emissions when gasoline trucks make deliveries.



# Background: Stage I and Stage II

- Onboard Refueling Vapor Recovery (ORVR) systems act like a Stage II system on a vehicle by capturing vapors in a canister to be combusted later.
- Vehicles equipped with ORVR are incompatible with some Stage II systems and can cause VOC emissions to vent to the atmosphere.
- The Clean Air Act allows EPA to revise or waive Stage II requirements in moderate or above ozone nonattainment areas after EPA determines ORVR is in widespread use.
- EPA has determined that states can allow for the decommissioning of Stage II systems in moderate and worse nonattainment areas.



### Background: Stage I and Stage II

- Refueling emissions due to incompatibility is starting to increase emissions in both the Philadelphia and the Pittsburgh areas.
- DEP believes that Stage II requirements achieve emission reductions that were not considered in EPA's widespread use analysis.
- Proposed requirements keep beneficial elements of Stage II to hold fugitive emissions in check.
- The major items the final-form rulemaking includes:
  - Provides for the decommissioning of Stage II equipment
  - Two new leak tests and testing on an annual basis
  - Requires low polluting nozzles and hoses
  - Option to use new technology



#### **Public Comment Period**

- EQB adopted the proposed rulemaking on May 19, 2020.
- Published in the *Pennsylvania Bulletin* on September 26,
   2020 (50 Pa.B. 5236) opening the public comment period.
  - Virtual public hearings on October 27, 28, & 29, 2020
  - No witnesses provided testimony
- The public comment period closed on November 30, 2020.
  - Five commentators: retail gasoline marketing (3), a leak testing company, and an industry association.
- The Independent Regulatory Review Commission (IRRC) submitted comments on December 30, 2020.



#### **Public Comments**

- All public comments can be found in their original form on the Department's <u>eComment webpage</u>.
- The Department prepared a Comment and Response Document that accompanies this final-form rulemaking.



#### **General Comments**

- Pennsylvania Petroleum Association supported the proposed rulemaking, specifically its overall costeffectiveness.
- Other general comments:
  - DEP should include Federal testing requirements for all PA counties.
  - DEP should certify leak testers.
  - Enhanced conventional (ECO) nozzles will be difficult for consumers to operate, are much more expensive, and get stuck in vehicles.



#### Comments Asking for Clarification

**COMMENT**: IRRC asked how uncertified leak testers would be notified of the requirement to be certified with the Department.

**RESPONSE**: The rulemaking does not require certification for leak testers. The Regulatory Analysis Form erroneously indicated certification was needed. Those references have been removed.



#### Comments Asking for Clarification

**COMMENT**: A commentator stated that ECO nozzles could cause environmental harm by increasing spills. IRRC asked how the benefits of ECO nozzles outweigh the negative fiscal and environmental impacts.

**RESPONSE**: There are no negative environmental or fiscal impacts due to ECO nozzles. Preliminary studies indicate that ECO nozzles are out-performing their current performance standard. ECO nozzles cost more than conventional nozzles but ECO nozzles control emissions cost-effectively.

#### **Specific Section Comments**

- In § 121.1, IRRC asked that the definition "Stage II vapor recovery system" include the terms "Stage II vacuum assist vapor recovery system" and "Stage II vapor balance vapor recovery system."
- In § 129.82a(g) and (h), no clear timeline for when to begin performing once-in-every-12-month leak testing.
- In § 129.61a(o), commentators suggested that the CARB Executive Order required for low permeation hoses and enhanced conventional nozzles either be kept onsite or be made available electronically from another site.



# Changes from Proposed Rulemaking

- § 121.1 Added Stage II vacuum assist vapor recovery system and Stage II vapor balance vapor recovery system to Stage II vapor recovery system definition.
- § 129.61a(d)(v) Clarifies that vapor leak tests must begin within 1 year of the effective date of the regulation.
- § 129.61a, § 129.82, § 129.82a Allows CARB Executive Orders and other records to be electronically stored for onsite examination, in addition to paper records being kept onsite for examination by an inspector.



#### **Advisory Committee Review**

Advisory committees concurred with the Department's recommendation to present this final-form rulemaking to the EQB:

- April 8, 2021 Air Quality Technical Advisory Committee
- May 19, 2021 Small Business Compliance Advisory Committee
- June 1, 2021 Citizens Advisory Council Policy and Regulatory Oversight Committee
- June 15, 2021 Citizens Advisory Council



### Requested Action

The Department respectfully requests that the Board adopt this final-form rulemaking.





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