Draft Rule 4308
(Boilers, Steam Generators, and Process Heaters—0.075 MMBtu/hr to less than 2.0 MMBtu/hr)
August 22, 2013
webcast@valleyair.org

Agenda
• Project Summary
• Background
• Draft Amendments Under Consideration
• Public Comments
• Next Steps & Comment Deadline
• Adjourn

Project Summary
• Draft rule amendments would:
  – Make requirements of Rule 4308 more stringent for instantaneous water heaters
  – Fulfill a commitment from the 2012 PM2.5 Plan
  – Benefit public health by reducing NOx
    • Improved ozone and PM2.5 levels
  – Improve rule clarity
Background

- Rule 4308 is a point-of-sale rule for boilers, steam generators, and process heaters 0.075-2.0 MMBtu/hr
- Applies to any person who supplies, sells, or installs these units
- Last amended December 17, 2009
  - Incorporated a 20 ppmv NOx emission limit for most natural gas-fired units

Background

- Instantaneous Water Heater:
  - A tankless water heater that only generates hot water as it is needed
  - Improved energy and water efficiency from tank-style/storage water heaters
- District estimates there are approximately 609 instantaneous units 0.075-0.4 MMBtu/hr in the Valley

Draft Amendments

- Lower the NOx emission limit from 55 ppmv to 20 ppmv for instantaneous water heaters with a rated heat input of 0.075-0.4 MMBtu/hr
- Units are readily available throughout the state and San Joaquin Valley
- Consistent with other air districts’ rules for similar sources
  - South Coast AQMD (effective January 1, 2012)
  - Bay Area AQMD (effective January 1, 2013)
  - Ventura County APCD (effective January 1, 2014)
- Compliance date: January 1, 2015
Supporting Analyses

- Emission Reductions:
  – 0.73 tons per year NOx
- Price Differential:
  – Savings of $45 to increased cost of $489
- Cost Effectiveness:
  – Range: $18,062 to $47,727
- Socioeconomic Impacts:
  – No significant impacts expected

Other Draft Amendments

- Clarify rule applicability
  – Exemption for hot water pressure washers
  – Remove redundant language
  – Remove expired language
  – Add clarifying language
    • Definitions
    • Consistency

Request for Additional Information

- Staff requests feedback on:
  – Information to further refine the inventory of instantaneous units in the Valley
  – Affected trade organizations
  – Any new DOT, OSHA, safety, or other requirements that would result from draft amendments
Open Discussion

Please come to podium
State name and affiliation
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Next Steps…

• Review comments and amend draft rule and staff report as appropriate
• Public hearing tentatively scheduled for October 17, 2013

Comment Period

Closes September 9, 2013 at 5:00 PM
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Thank you for attending today’s workshop

District Website
www.valleyair.org