


**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



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**Agenda**

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



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**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



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### 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



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### 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



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### 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



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### 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

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### Other Draft Amendments

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

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### 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

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## Open Discussion

Please come to podium  
State name and affiliation

webcast@valleyair.org



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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



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## 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](http://www.valleyair.org)



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