

# PROPOSED AMENDED RULE 1111 PUBLIC CONSULTATION

NOVEMBER 21, 2019

SAN BERNARDINO FIRE STATION # 91  
302 CALIFORNIA HIGHWAY 173  
LAKE ARROWHEAD, CA

## PAR 1111 - Current Rulemaking

### Background

- During the November 1, 2019 Board meeting, concerns were raised by installers from the San Bernardino Mountain area regarding:
  - Limited availability of compliant (14 ng/J NOx) furnaces for high altitude applications
  - Potential public health and safety issues resulting from the lack of available compliant furnaces

### Purpose

- To develop proposed amendments to Rule 1111 - Reduction of NOx Emissions from Natural Gas-Fired Fan-Type Central Furnaces in order to allow additional time for furnace manufacturers to develop high altitude kits and guidance for compliant 14 ng/J units.

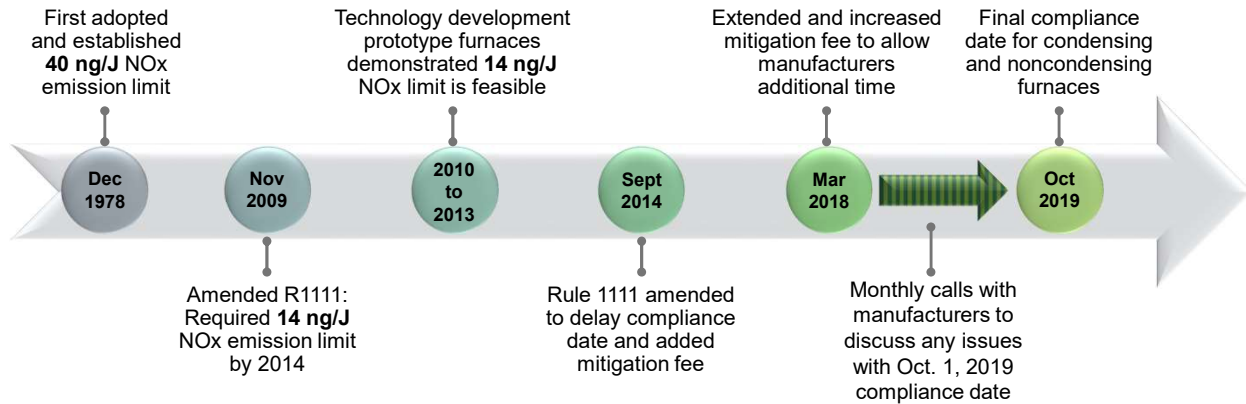
### Interim

- Enforcement discretion and interim product variances were put in place to ensure no gap in availability of high altitude furnaces during rulemaking

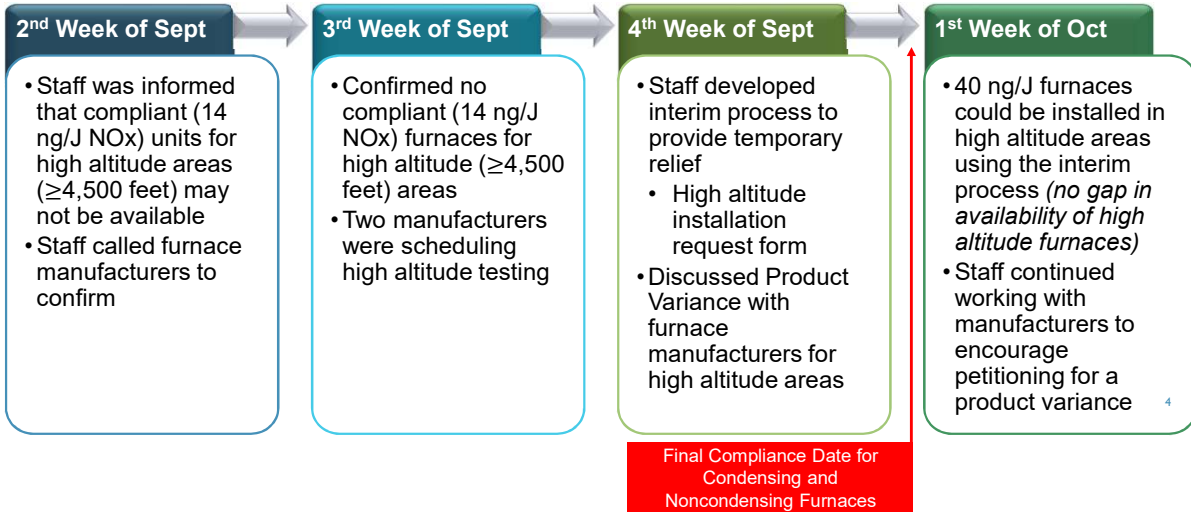
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# PAR 1111 - Background

Rule applies to manufacturers, distributors, sellers, and installers of residential and commercial natural gas-fired fan-type central furnaces

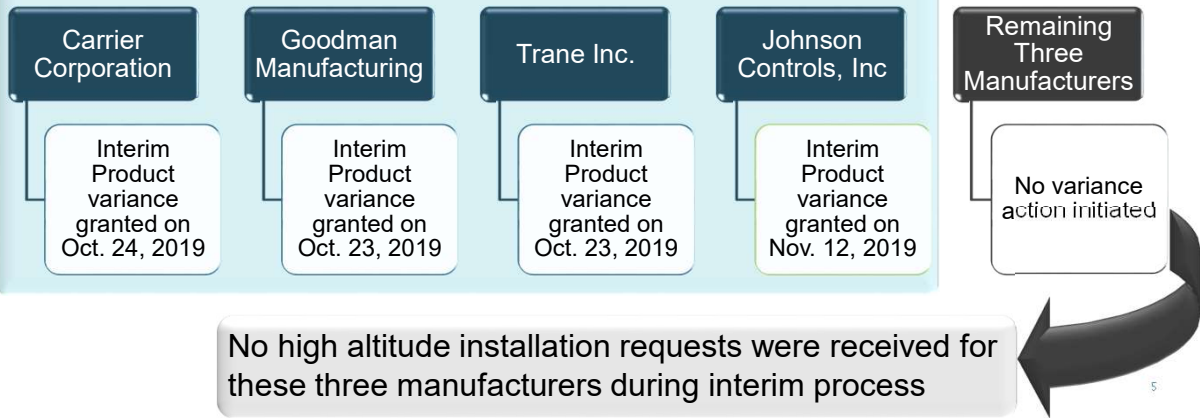


# High Altitude Installations



## Current Status of Product Variances

### Manufacturers with Product Variance or Petition for Product Variance



## Comparison of Proposed Amended Rule 1111 and Variance

	<b>Rule Amendment</b>	<b>Variance</b>
<b>Manufacturer Applicability</b>	✓ All furnace manufacturers	✓ Only those manufacturers who are granted a product variance
<b>Supply Chain Applicability</b>	✓ <b>Relief for entire supply chain</b>	
<b>Mitigation Fee</b>	✓ No Mitigation Fee	✓ Mitigation fee applies to those with product variance
<b>Elevation</b>	✓ ≥4,200 feet above sea level	✓ ≥4,500 feet above sea level*
<b>Recordkeeping</b>	✓ Required from manufacturer, distributor, and installer	✓ Required from manufacturer (to obtain from distributor and installer)
<b>Duration of Relief</b>	✓ October 1, 2020	✓ Different for each manufacturer or when there is a comparable available compliant (14 ng/l NOx) unit
<b>Approval</b>	✓ Governing Board	✓ Hearing Board

\* Additional conditions for units between 4,500 and 5,000 feet above sea level

## Status of High Altitude Kits and Guidance for Compliant Furnaces (14 ng/J)

- ❑ Process for high altitude furnaces
  - Test 14 ng/J furnaces at high altitudes (same units available at lower elevations)
  - Develop guidance for high altitude operation
  - Develop high altitude kits (e.g., gas valves for fuel/air ratio), if needed
- ❑ Four manufacturers testified during variance hearings that anticipate guidance/kits to be available between February to September 2020

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## Proposed Amended Rule 1111

- Allow all manufacturers to sell non-compliant (40 ng/J NO<sub>x</sub>) units in high altitude ( $\geq 4,200$  feet above sea level) areas until October 1, 2020
- Require manufacturers, distributors, and installers to track and report the sales and installations of 40 ng/J furnaces

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## Future Assessments

- Spring 2020, staff will hold a public meeting to gather input on development of:
  - Compliant 14 ng/J high altitude furnaces
  - Weatherized furnaces – compliance date October 1, 2020
  - Overall implementation of Rule 1111
- May 2020 provide an update to the Stationary Source Committee on information gathered from public meetings

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## Public Meetings

- |   |                   |
|---|-------------------|
| ✓ Public Workshop                       | November 14, 2019 |
| ✓ Stationary Source Committee           | November 15, 2019 |
| ☐ Public Consultation (Lake Arrowhead)  | November 21, 2019 |
| ☐ End of Public Workshop Comment Period | November 22, 2019 |
| ☐ Public Hearing                        | December 6, 2019  |

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