### PROPOSED AMENDED RULE 1111 PUBLIC WORKSHOP

NOVEMBER 14, 2019 SOUTH COAST AQMD DIAMOND BAR, CA

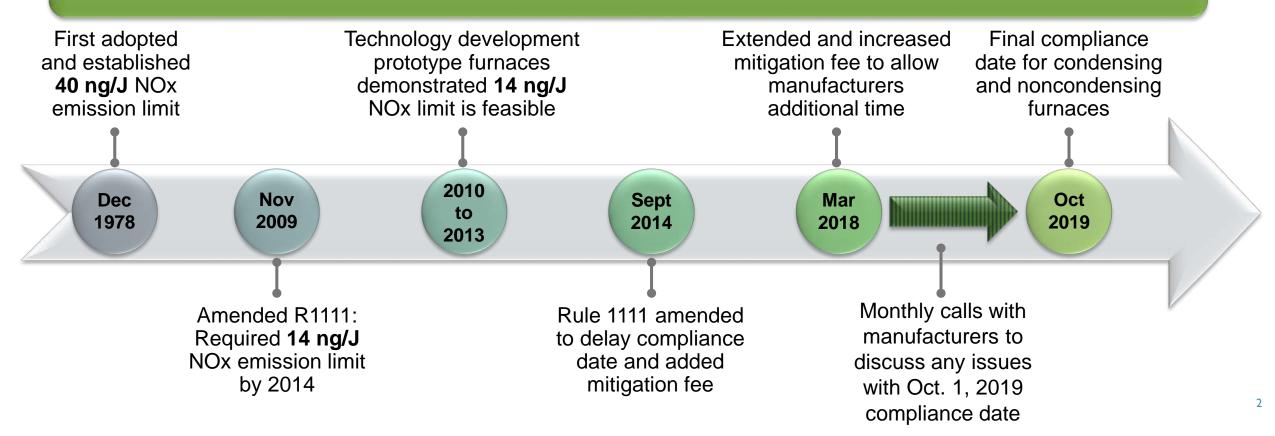
### PAR 1111 - Current Rulemaking

Background	<ul> <li>During the November 1, 2019 Board meeting, concerns were raised by installers from the San Bernardino Mountain area regarding:</li> <li>Limited availability of compliant (14 ng/J NOx) furnaces for high altitude applications</li> <li>Potential public health and safety issues resulting from the lack of available compliant furnaces</li> </ul>
Purpose	<ul> <li>To develop proposed amendments to Rule IIII - 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.</li> </ul>
Interim	<ul> <li>Enforcement discretion and interim product variances were put in place to ensure no gap in availability of high altitude furnaces during rulemaking</li> </ul>

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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

2 <sup>nd</sup> Week of Sept	3 <sup>rd</sup> Week of Sept	4 <sup>th</sup> Week of Sept	1 <sup>st</sup> Week of Oct
<ul> <li>Staff was informed that compliant (14 ng/J NOx) units for high altitude areas (≥4,500 feet) may not be available</li> <li>Staff called furnace manufacturers to confirm</li> </ul>	<ul> <li>Confirmed no compliant (14 ng/J NOx) furnaces for high altitude (≥4,500 feet) areas</li> <li>Two manufacturers were scheduling high altitude testing</li> </ul>	<ul> <li>Staff developed interim process to provide temporary relief</li> <li>High altitude installation request form</li> <li>Discussed Product Variance with furnace manufacturers for high altitude areas</li> </ul>	<ul> <li>40 ng/J furnaces could be installed in high altitude areas using the interim process (no gap in availability of high altitude furnaces)</li> <li>Staff continued working with manufacturers to encourage petitioning for a product variance</li> </ul>
		Final Compliance Date for	

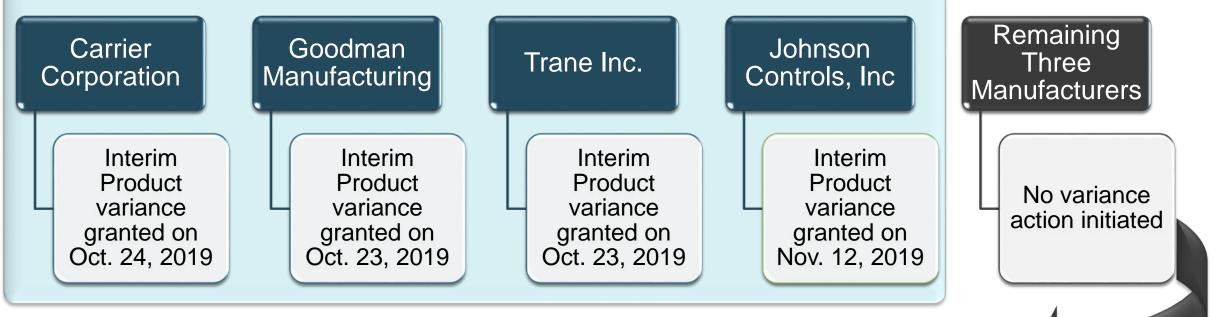
Final Compliance Date for Condensing and Noncondensing Furnaces

**REVISED** 

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### **Current Status of Product Variances**

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



No high altitude installation requests were received for these three manufacturers during interim process

### Comparison of Proposed Amended Rule 1111 and Variance

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

### Proposed Amended Rule 1111

➢Allow all manufacturers to sell non-compliant (40 ng/J NOx) units in high altitude (≥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

### 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

# **Upcoming Public Meetings**

- Stationary Source Committee
- Public Consultation (Lake Arrowhead)
- End of Public Workshop Comment Period
- Public Hearing

November 15, 2019 November 21, 2019 November 22, 2019 December 6, 2019

### Contacts

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