# RULE 1111 HIGH ALTITUDE STAKEHOLDER MEETING

JUNE 9, 2021

ZOOM MEETING: <u>HTTPS://SCAQMD.ZOOM.US/J/92042305264</u> MEETING ID: 920 4230 5264 CONFERENCE CALL: (669) 900-6833

### HIGH ALTITUDE INSTALLATION - KEY ISSUES

Product availability for high altitude installation – Especially for large size and downflow models

High altitude exemption

# HIGH ALTITUDE PRODUCT AVAILABILITY

#### ■ Manufacturers with 14 ng/J NOx furnaces available for elevations ≥7,500 feet



<sup>1</sup> Goodman will have all certified weatherized units available for installation at elevations up to 7,800 ft by October 1, 2021

## HIGH ALTITUDE PRODUCT AVAILABILITY - DOWN FLOW AND LARGE SIZE MODELS

#### **Downflow Models**

- No downflow models for altitude higher than 5,400 ft
- Low priority for development due to its small market

#### Large Size Models

- Two manufacturers expect to provide large size (100,000 btu/hr) models for high altitude by October 1, 2021
- Low priority for development due to small market
- Manufacturers suggest that with energy efficiency being highly improved, large size furnace would have even less demand

## HIGH ALTITUDE EXEMPTION

High altitude installation exemption Installers expressed concerns on product availability and requested that furnaces in high altitude areas be exempt due to small emission reductions



- The emission reductions forgone would be permanent and cumulative overtime
  - Estimating 0.03 tons per day in 30 years, and 0.05 tons per day in 50 years
- Furnace manufacturers have invested resources to complete high altitude testing
- All manufacturers have made progress and have variety of products at different elevations
- A general exemption raises concerns with equity and compliance
- Staff will continue discussion with manufacturers, distributors, and installers to assist in resolving the disconnect between entities

# STAFF RECOMMENDATIONS FOR HIGH ALTITUDE INSTALLATION

- No extension for exemption of condensing and non-condensing furnaces installed in high-altitude areas
- Provide exemption for condensing and non-condensing furnaces installed in highaltitude areas with a downflow configuration
- Will continue to meet with manufacturers, distributors, and installers to resolve any remaining issues

# CONTACTS

Proposed Amended Rule 1111	Yanrong Zhu Air Quality Specialist (909) 396-3289 <u>yzhu1@aqmd.gov</u>	Shawn Wang Air Quality Specialist (909) 396-3319 <u>swang@aqmd.gov</u>
	Gary Quinn, P.E. Program Supervisor (909) 396-3121 gquinn@aqmd.gov	Michael Krause Planning and Rules Manager (909) 396-2706 <u>mkrause@aqmd.gov</u>
General Questions	Susan Nakamura Assistant Deputy Executive Officer 909-396-3105 <u>snakamura@aqmd.gov</u>	