



# Proposed Amended Rule 1135

## Emissions of Oxides of Nitrogen from Electricity Generating Facilities

Working Group Meeting #4  
January 19, 2023

Join Zoom Webinar Meeting: <https://scaqmd.zoom.us/j/94648515982>

Webinar ID: 946 4851 5982

Teleconference Dial-In: 1-669-900-6833

# Agenda

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Summary of Last Working Group Meeting

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Current Status of PBGS Repower Projects

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Proposed Rule Language

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Next Steps

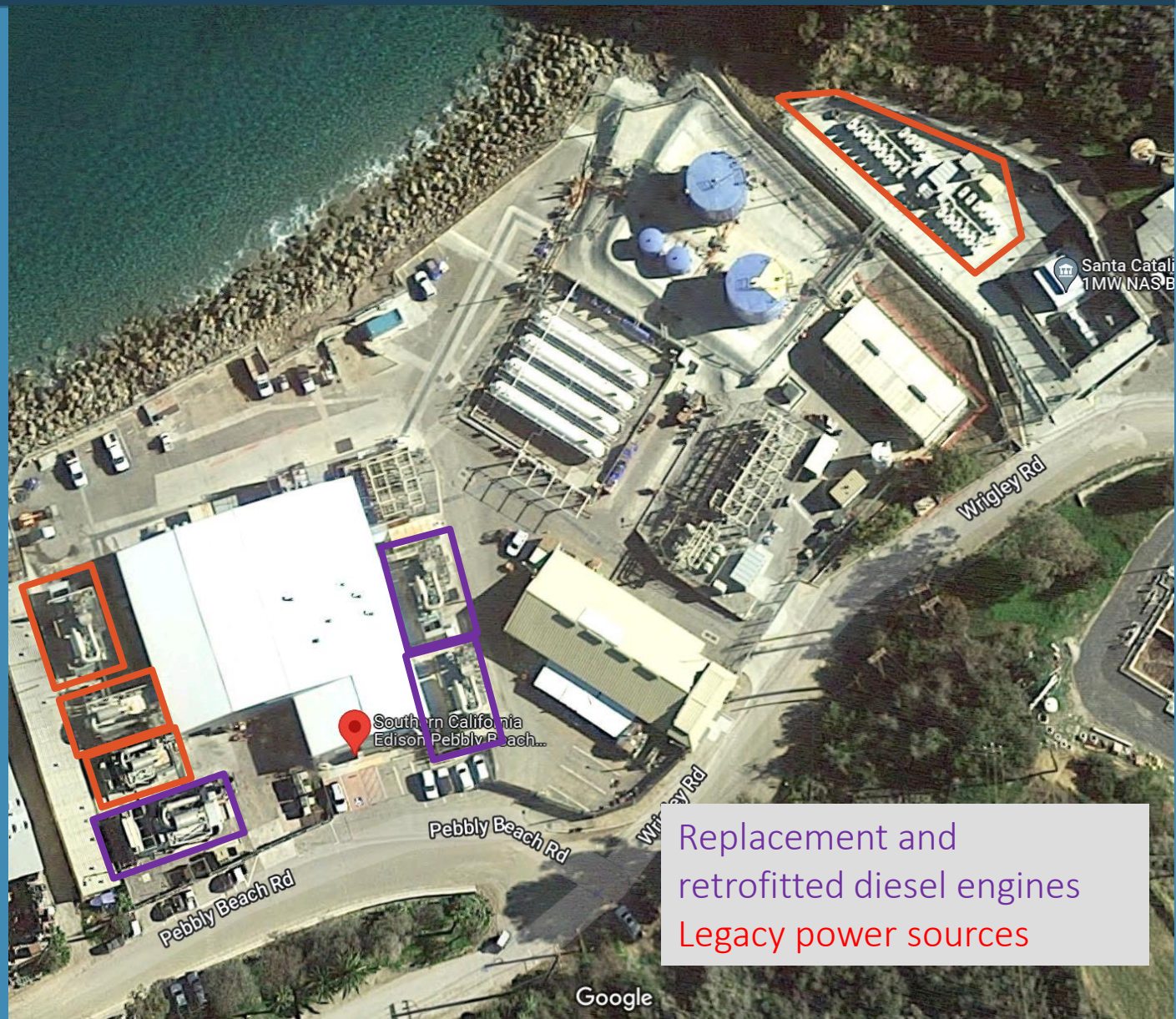
# Summary of Last Working Group Meeting

- Working Group Meeting #3 held on November 8, 2022
- Responded to The Public Advocates Office (Cal Advocates) at the California Public Utilities Commission (CPUC) comment letter
  - Prohibition to install new diesel engines should not be revised
  - Replacing Units 8 and 10 and retiring Unit 15 could reliably serve about 90% of forecasted load in 2025
  - South Coast AQMD's Best Available Retrofit Control Technology (BARCT) assessment is not limited to the existing footprint of PBGS
- BARCT Assessment
  - Proposed BARCT limit of 1.52 tons of NO<sub>x</sub> per year
- Clarification on Once-Through-Cooling (OTC) Units
  - Exemption only applies to OTC units listed under the OTC Policy




# Current Status of PBGS Repower Projects

- Southern California Edison (SCE) installed a catalyst block for Unit 15 to attempt to comply with South Coast AQMD Rule 1470
- Multiple test results proved the catalyst block was ineffective at reducing particulate matter emissions to  $\leq 0.01$  g/bhp-hr
- SCE will pursue replacement of Unit 15 with a Tier 4 Final-certified diesel engine
- South Coast AQMD is requesting the consideration of propane engines to replace Unit 15



Replacement and retrofitted diesel engines  
Legacy power sources

A photograph of an industrial facility, likely a refinery or chemical plant. The image features a prominent tall, cylindrical distillation column on the left, surrounded by a complex network of metal scaffolding, ladders, and pipes. In the background, other industrial structures, including a large cylindrical tank and a building with a corrugated metal roof, are visible under a clear blue sky. A semi-transparent black rectangular box is overlaid on the right side of the image, containing white text.

# Proposed Rule Language

# Definitions (c)

## New or modified definitions in PAR 1135 include:

### (9) ELECTRIC GENERATING UNIT

- Added near-zero and zero-emission electric generating unit to the definition of an electric generating unit
- Includes all prime power internal combustion equipment on Santa Catalina Island

### (21) SANTA CATALINA ISLAND NEAR-ZERO EMISSION (NZE) ELECTRIC GENERATING UNIT

- Any electric generating unit located on Santa Catalina Island that produces NO<sub>x</sub> emissions greater than 0.01 lb/MW-hr but less than or equal to 0.07 lb/MW-hr

### (22) SANTA CATALINA ISLAND ZERO-EMISSION (ZE) ELECTRIC GENERATING UNIT

- Any electric generating unit located on Santa Catalina Island that produces NO<sub>x</sub> emissions less than 0.01 lb/MW-hr



# Emission Limits for Boilers and Gas Turbines (d)(1)

## Emission Limits for Boilers and Gas Turbines

Boilers and gas turbines that do not meet the NO<sub>x</sub> emission limits

- Prohibition deadline extended from January 1, 2024 to April 1, 2024
- Provides additional time for facilities to finalize the installation of controls



# Prohibitions on Santa Catalina Island Clauses (d)(2)(A)(i) and (d)(2)(A)(ii)

## Electric Generating Units on Santa Catalina Island

### Previous rule language

- Prohibition deadline of January 1, 2024 for diesel internal combustion engines

### Proposed rule language

- Extended prohibition for diesel internal combustion engines to July 1, 2025
  - Requested by SCE in comment letter submitted July 15, 2022
  - Added due to issues following Unit 15 catalyst block installation
- Added prohibition of non-NZE or non-ZE electric generating units after July 1, 2025





# Emission Limits on Santa Catalina Island

## Clauses (d)(2)(A)(iii) and (d)(2)(A)(iv)

### Electric Generating Units on Santa Catalina Island

#### Previous rule language

- Interim limits:
  - 50 tons NOx by January 1, 2024
  - 45 tons NOx by January 1, 2025
- NOx mass emission limit 13 tons per year on and after January 1, 2026

#### Proposed rule language

- Removed first interim limit
- Second interim limit retained to ensure progress towards compliance
- Based on BARCT assessment:
  - NOx mass emission limit reduced to 1.6 tons per year on and after January 1, 2026

#### Annual NOx interim limits

~~(1) 50 tons by January 1, 2024~~

**(2) 45 tons by January 1, 2025**

#### Annual NOx mass emission limit

~~13 tons~~  
**1.6 tons on and after January 1, 2026**

# Monitoring, Recordkeeping, and Reporting for Electric Generating Units (e)(3)

## Monitoring, Recordkeeping, and Reporting

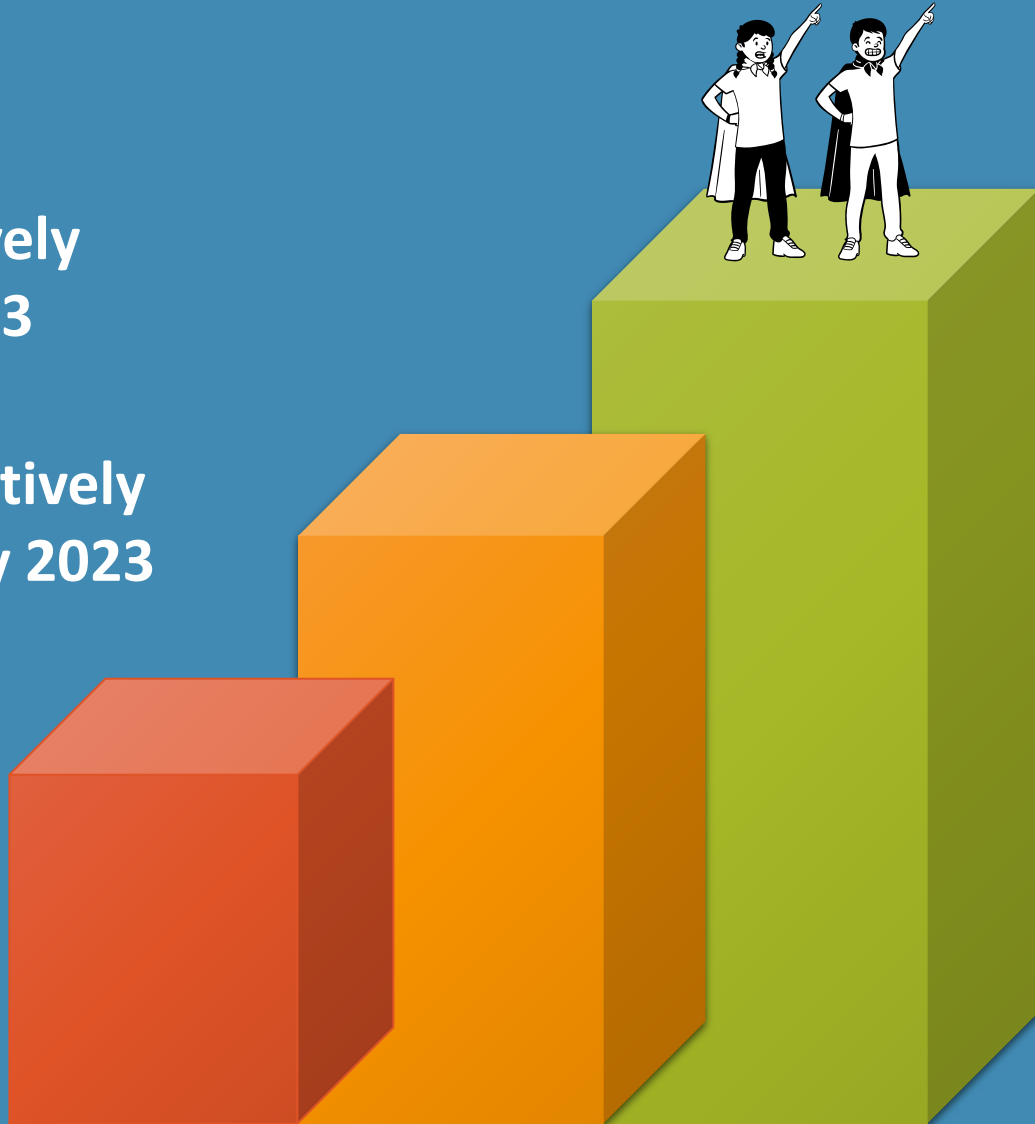
### Proposed rule language

- Included monitoring and recordkeeping requirements for electric generating units  $\leq 0.4$  MW
  - Added method to determine compliance based on tracking total annual MW-hr of each unit
- Owner or operator shall maintain records of all data onsite for a minimum of five years and made available to the Executive Officer upon request
- Any electric generating unit exceeding 0.4 MW shall install a Continuous Emissions Monitoring Systems (CEMS)
  - Excludes ZE electric generating units



# Next Steps

- 3** Public Hearing tentatively scheduled for May 2023
- 2** Public Workshop tentatively scheduled for February 2023
- 1** Ongoing meetings with stakeholders



# Staff Contacts

## Rule Development

**Belinda Huy**

[bhuy@aqmd.gov](mailto:bhuy@aqmd.gov)

(909) 396-3171

**Isabelle Shine**

[ishine@aqmd.gov](mailto:ishine@aqmd.gov)

(909) 396-3064

**Michael Morris**

[mmorris@aqmd.gov](mailto:mmorris@aqmd.gov)

(909) 396-3282

## RECLAIM

**Isabelle Shine**

[ishine@aqmd.gov](mailto:ishine@aqmd.gov)

(909) 396-3064

## General Questions

**Michael Krause**

[mkrause@aqmd.gov](mailto:mkrause@aqmd.gov)

(909) 396-2706

**For more information:**

[PAR 1135 Proposed Rules  
Web Page](#)

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