1

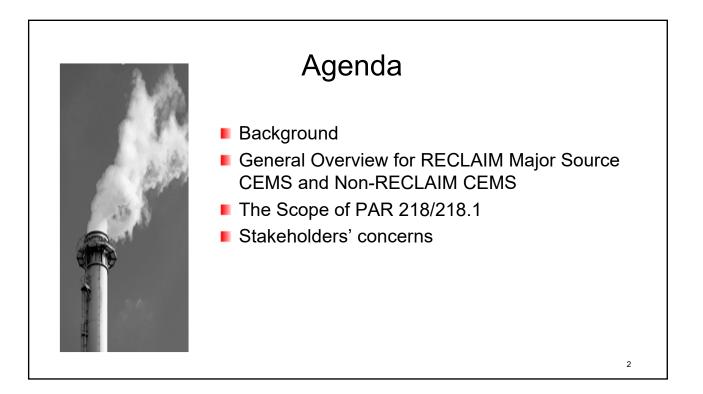
## Requirements for Continuous Emission Monitoring

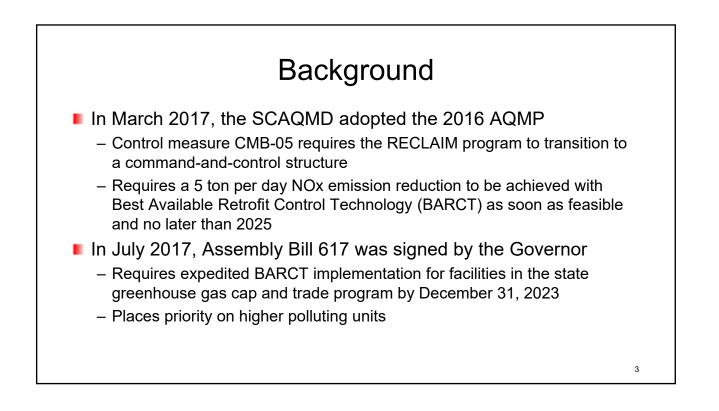
Proposed Amended Rules (PAR) 218 and 218.1 (Formerly Rulemaking for Proposed Rule 113)

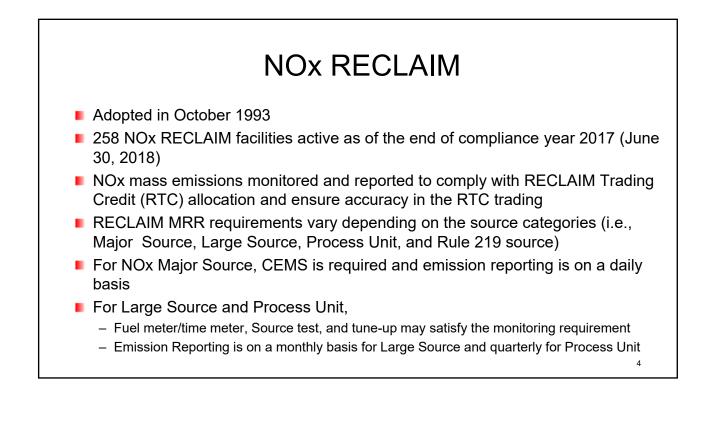
Working Group Meeting #1

March 13, 2019

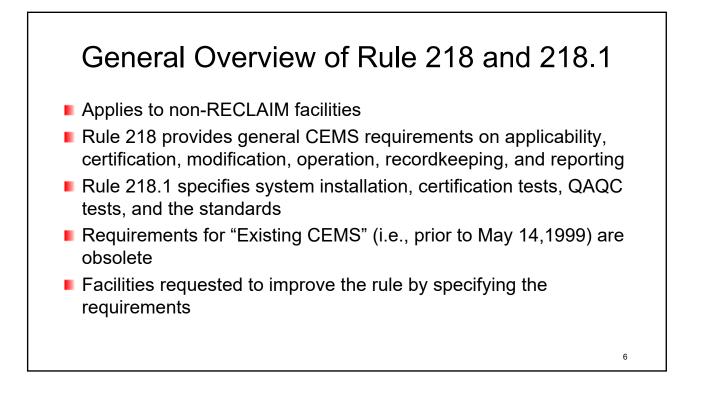
SCAQMD Headquarters Diamond Bar, California

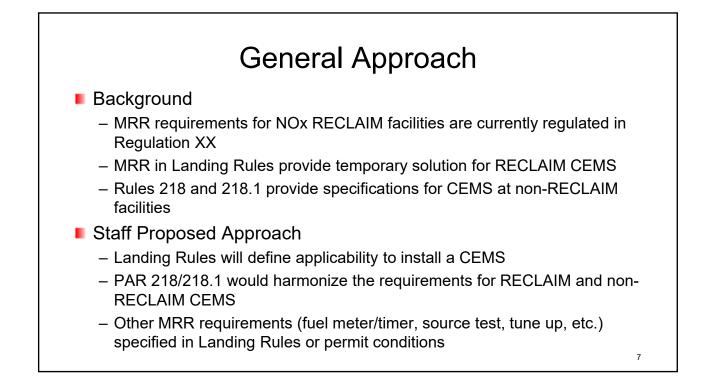


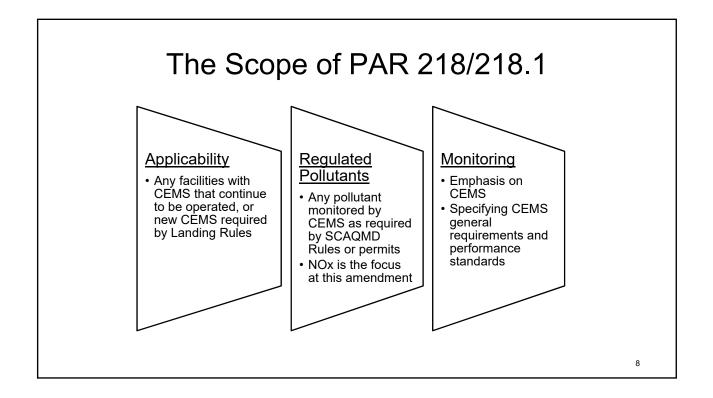


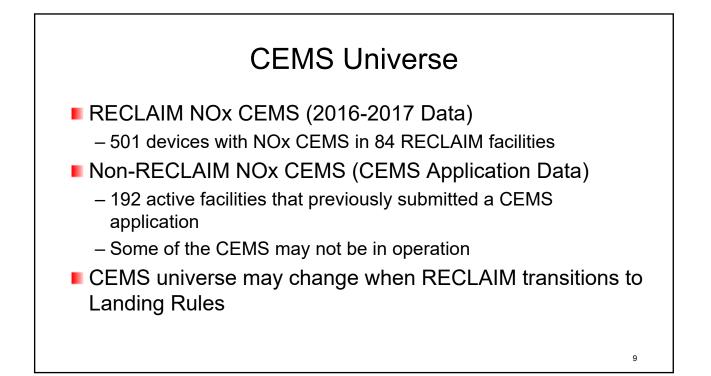


	Monitoring	Reporting	Recordkeeping
Major Source*	<ul> <li>CEMS</li> <li>CEMS QAQC (e.g., Daily calibration, Semi- annual or annual Relative Accuracy Test Audit (RATA), fuel meter Relative Accuracy Audit (RAA))</li> </ul>	<ul> <li>Daily, monthly, quarterly, and annual emissions</li> <li>RATA report</li> <li>Breakdown and emergency</li> <li>CEMS being non- operational &gt; 24 hours</li> </ul>	<ul> <li>Maintain &lt;15-minute data for at least 48 hours</li> <li>Maintain all other data for at least three years</li> </ul>









Comparison Between CEMS Applicability for Rule 2012 and Landing Rules				
	Rule 2012 CEMS Applicability	Landing Rule CEMS Applicability	Changes When Transitioning to Landing Rules	
Industrial Boilers	<ul> <li>Heat input ≥40 MMBtu/hour but &lt;500 MMBtu/hour and annual heat input &gt;90 x 10<sup>9</sup> Btu/year; or</li> <li>Heat input ≥500 MMBtu/hour</li> </ul>	• Heat input ≥40 MMBtu/hour and	<ul> <li>Some CEMS in non- refinery may no longer be required when the heat input is no more than 200 x 10<sup>9</sup> Btu/year</li> </ul>	
Internal Combustion Engine	<ul> <li>≥1,000 bhp and operating</li> <li>&gt;2,190 hours/year</li> </ul>	Rule 1110.2         ≥1,000 bph; or         Multiple units (each ≥500 bhp) with combined rating ≥1,500 bhp and combined fuel usage ≥16 x	<ul> <li>Some RECLAIM facilities with an on-site aggregate horsepower rating ≥1500 hp would require CEMS under Rule 1110.2</li> </ul>	

10<sup>9</sup> Btu/year Rule 1135

Applicability remains the same for NOx source for ICE in EGF former RECLAIM facilities

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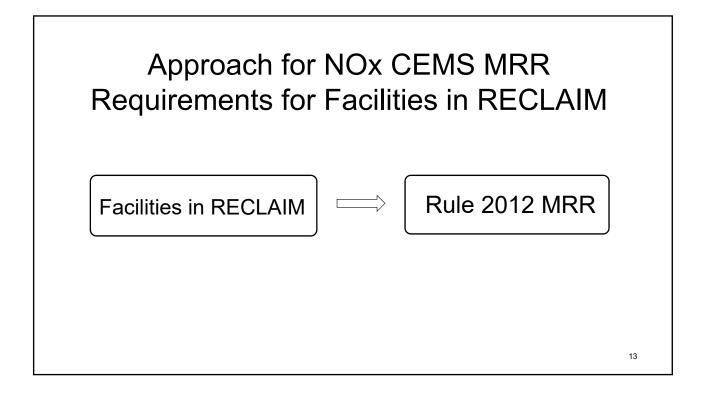
10

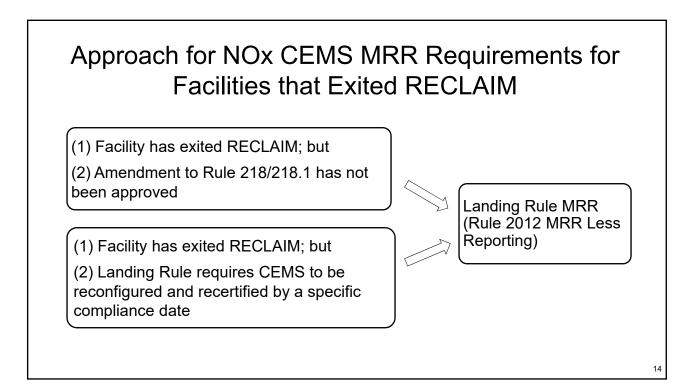
# Comparison Between CEMS Applicability for Rule 2012 and Landing Rules – cont.

	Rule 2012 CEMS Applicability	Landing Rule CEMS Applicability	Changes When Transitioning to Landing Rules
Gas Turbine	<ul> <li>≥2.9 megawatts excluding emergency standby equipment or peaking unit</li> </ul>	Rule 1135         Applicability remains the same for former RECLAIM NOx source         Rule 1134         ≥2.9 megawatts for non-RELAIM         Applicability remains the same for former RECLAIM NOx source	No change
			11

Comparison Between CEMS Applicability for Rule 2012 and Landing Rules – cont.

	Rule 2012 CEMS Applicability	Landing Rule CEMS Applicability	Changes When Transitioning to Landing Rules
Furnace, oven, dryer, heater, incinerator, test cell and any solid, liquid or gaseous fueled equipment	<ul> <li>Heat input ≥40 MMBtu/hour but &lt;500 MMBtu/hour and annual heat input &gt;90 x 109 Btu/year; or</li> <li>Heat input ≥500 MMBtu/hour</li> </ul>	CEMS applicability in	To be determined
Refinery FCCU, refinery tail gas unit	• Any	1	
Kiln or Calciner	<ul> <li>Process ≥10 tons/hour and &gt;21,9000 tons/year, except brick kilns</li> </ul>		
Other equipment as defined in Rule 2012 such as equipment burning, incinerating solid fuels or materials, existing Nox CEMS, etc.)	• Any		





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## Approach for NOx CEMS MRR Requirements for Facilities that Exited RECLAIM – cont. (1) Facility has exited RECLAIM; (2) Amendment to Rule 218/218.1 has been aproved; and (1) Facility has exited RECLAIM; (2) Amendment to Rule 218/218.1 has been approved; and (3) CEMS is ready to be recertified upon completion of all the changes to the source and CEMS

## **Key Concerns** EPA Excess emission should be reported (currently not by RECLAIM and non-Title V facilities) Stakeholders Monitoring: Should there be changes and new requirements for data availability and partial hours - There are divided opinions on what averaging method to use in PR 113 (i.e., Rolling Hourly Average vs. fixed hourly average) What triggers CEMS recertification, and if CEMS recertification required for data averaging method change - Suggest to allow off-line QAQC testing during non-operation period Suggest to allow 1-2 days for Ammonia Injection Grid (AIG) annual tuning without variance (the unit at tuning has to be on-line for NOx measurement) 16

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# Key Concerns- cont.

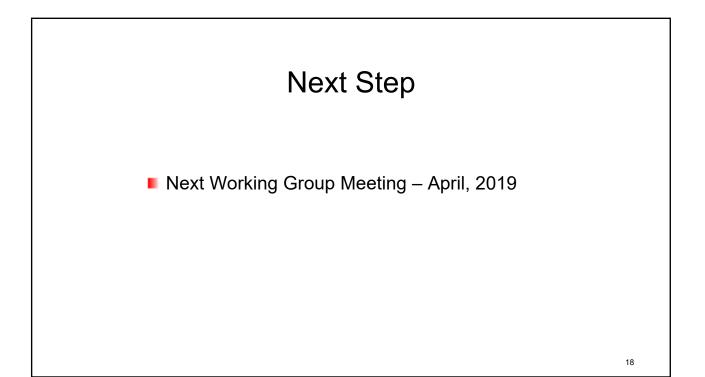
## **Stakeholders**

Recordkeeping and Reporting:

- Will RTU and Strip Charts still be required
- What will be the changes to recordkeeping and reporting requirements
- Suggest to use Part 60 type of reporting: Report breakdown and deviation when it happens, then semiannually report summary of the deviation and emission data and tests; Provide an exemplary report form

#### Other Concerns:

- What would be the requirements for startup and shut down emissions
- Former RECLAIM facilities should be exempted from any violation involved in CEMS mass calculation before PR 113 is adopted
- Others??



## Staff Contacts Rule 113 Development

- Yanrong Zhu Air Quality Specialist (909) 396-3289 <u>yzhu1@aqmd.gov</u>
- Gary Quinn, P.E. Program Supervisor (909) 396-3121 gquinn@aqmd.gov

# General and Landing Rule Contacts

## **General RECLAM Questions**

- Gary Quinn, P.E. Program Supervisor (909) 396-3121 gquinn@aqmd.gov
- Kevin Orellana
   Program Supervisor
   (909) 396-3492
   korellana@aqmd.gov

## Rules 1146, 1146.1,1146.2

 Lizabeth Gomez Air Quality Specialist (909) 396-3103
 <u>Igomez@aqmd.gov</u>

#### Rule 1110.2

 Kevin Orellana Program Supervisor (909) 396-3492 <u>korellana@aqmd.gov</u> 19

# General and Landing Rule Contacts – cont.

Rule 1135

 Uyen-Uyen Vo Program Supervisor (909) 396-2238 <u>uvo@aqmd.gov</u> Rule 1134

 Michael Morris Planning and Rules Manager (909) 396-3282 <u>mmorris@aqmd.gov</u>

Proposed Rule 1109.1

 Sarady Ka Air Quality Specialist (909) 396-2331 <u>ska@aqmd.gov</u>