# PROPOSED AMENDED RULES 1146, 1146.1, 1146.2 & PROPOSED RULE 1100 WORKING GROUP #4

APRIL 12, 2018 SCAQMD DIAMOND BAR, CA

## Agenda

- Updates on Data Analysis
- □ Rule Applicability
- □ CEMS Requirements
- Additional Revisions

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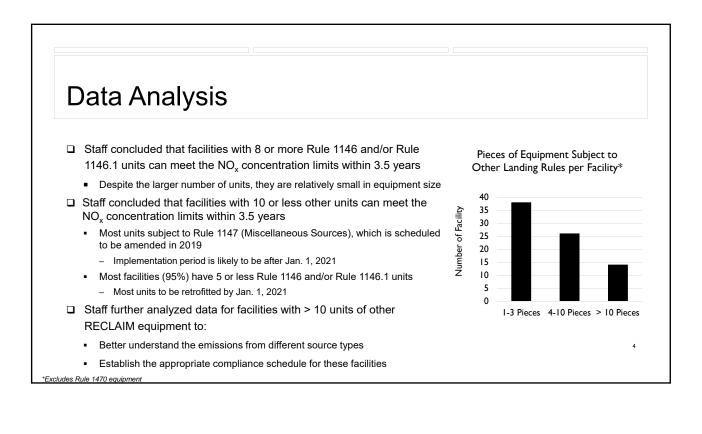
## Rule 1146 Series Rules

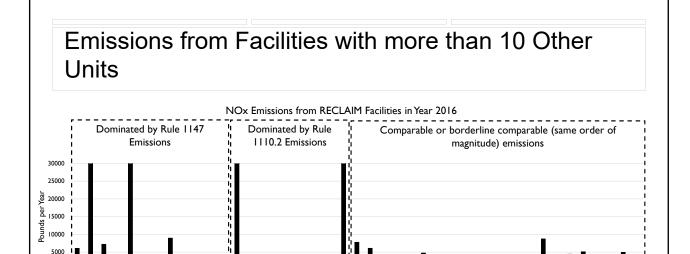
### □ Rule 1146 series rules – the first set of landing rules

- Remove RECLAIM exemptions
- Add provisions for RECLAIM facilities
- Will address facilities that will be transitioned under an industry specific rule separately
- Electricity Generating Facilities (EGFs), refineries, metal operations facilities, aggregate facilities

-	Possibly other industries (to be determined)
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Rule	Applicability	Size	
Rule     46	Boilers, steam generators, and process heaters	≥ 5 million Btu per hour	
Rule     46.	Boilers, steam generators, and process heaters	>2 and <5 million Btu per hour	]
Rule     46.2	Natural gas-fired water heaters, boilers, and process heaters	≤ 2 million Btu per hour	3





R219 & Others

1146 1146.1

R219 & Others

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Textile Mills

Others

R219 & 0

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1147

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Others

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R219 & Others 1146

Food Manufacturing

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R219 & Others

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R219 & Othen

Transportation Equipment Manufacturing

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1181 134 146

F

1110.2

Pipeline Transportation

R219 & Others

1110.2 1118.1 1146

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1146 1147

D

R219 & Others

R219 & Others

С

## Analysis of Facilities with more than 10 Other Units

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1146 1147

A

R219 & Others

1146 1147 1147 R219 & Others 1146 1147

Fabricated Metal Product Primary Metal Manufacturing

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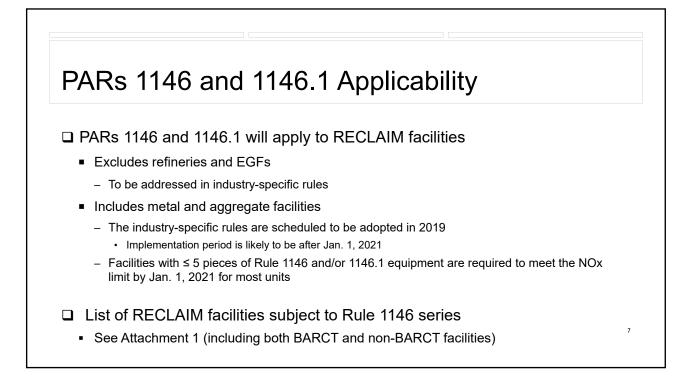
	Pieces of R1146/1146.1 Unit	Pieces of R1147 Unit
А	5	23
В	3 (two units eligible for defer compliance)	17
С	2	21
D	2 (both at BARCT)	8

#### □ Facilities Dominated by Rule 1110.2 Emissions

	Pieces of R1146/1146.1 Unit	Pieces of R1110.2 Unit
E	2 (both at BARCT)	10
F	5 (two units at BARCT)	10

- □ Facilities with > 10 other units can meet the emission limit within the 3.5 years timeframe
  - ≤ 5 pieces of Rule 1146 series equipment between 3-33 MMBtu/hr

<sup>□</sup> Facilities Dominated by Rule 1147 Emissions



### Continuous Emission Monitoring (CEMS) Requirements

Continuous Emission Monitoring (CEMS) Applicability Threshold

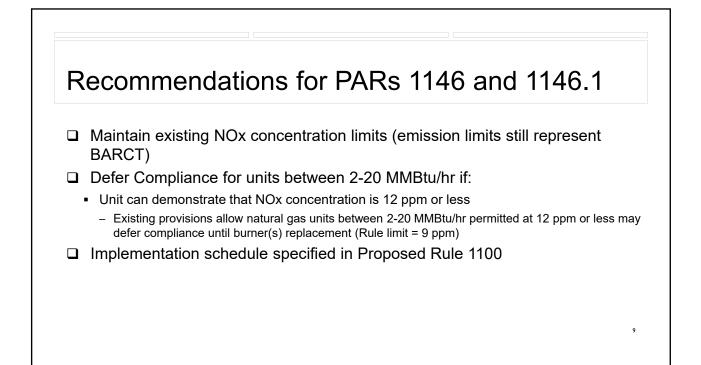
	Rule     46	RECLAIM
Size	40 MMBtu/hr	40 MMBtu/hr
Fuel Usage	200 Billion Btu per year	90 Billion Btu per year

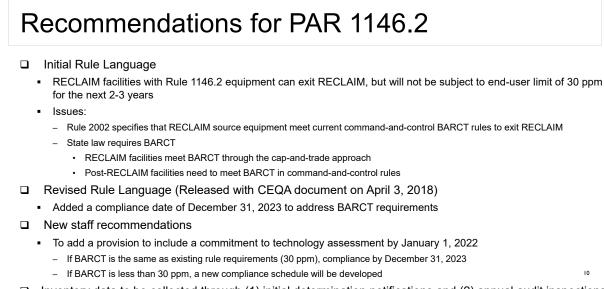
□ Evaluated 2015 / 2016 fuel usage data for units ≥ 40 MMBtu/hr at RECLAIM facilities

Ten units reported fuel usage between 90 and 200 billion Btu per year

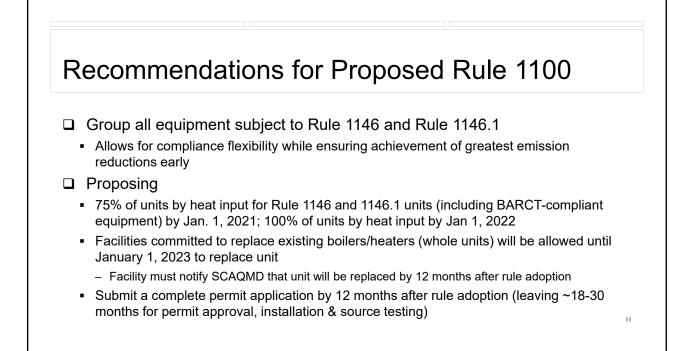
Staff has been in communication with EPA regarding aligning the CEMS applicability thresholds to Rule 1146 for facilities transitioning from RECLAIM to command and control

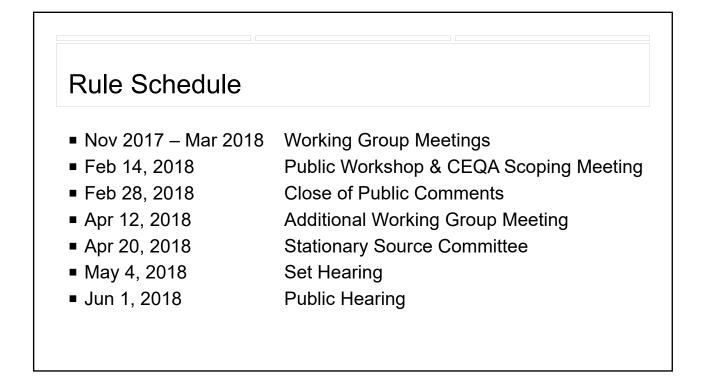
- Rule 1146 is SIP-approved
- Staff is recommending that post-RECLAIM facilities to be subject to the same CEMS applicability threshold as non-RECLAIM facilities (200 billion Btu per year)
- Any modification to MRR approaches would constitute a significant Title V permit revision and would trigger public notification requirements and EPA approval
  - Title V MRR requirements may need to be addressed separately





□ Inventory data to be collected through (1) initial determination notifications and (2) annual audit inspections





Contacts		
	Kalam Cheung, Ph.D.	
	Program Supervisor	
	(909)396-3281	
	<u>kcheung@aqmd.gov</u>	
	Gary Quinn, P.E.	
	Program Supervisor	
	(909)396-3121	
	<u>gquinn@aqmd.gov</u>	
	Kevin Orellana	
	Program Supervisor	
	(909)396-3492	13
	korellana@aqmd.gov	