# NOx RECLAIM WORKING GROUP MEETING

FEBRUARY 14, 2019 SCAQMD DIAMOND BAR, CA













5	ie #1 Summary ber 8 Working Group Meeting)	
For new sources permitted in RECLAIM, what are the offset obligations as facilities transition out of RECLAIM?	<ul> <li>NSR requirements for RECLAIM facilities</li> <li>Facilities that were permitted after the start of RECLAIM and facilities with emission increases above their starting allocation have ongoing <u>holding</u> requirements to hold RTCs equal to their PTE year-to-year</li> <li>Facilities that existed at the start of RECLAIM only have to hold RTCs equal to their PTE for the first year</li> <li>NSR obligations for RECLAIM facilities after transitioning</li> <li>Rule 2005 only has an ongoing holding requirement for some facilities</li> <li>Equivalency to SIP commitment can be demonstrated programmatically</li> <li>RECLAIM NSR does not have an ongoing <u>offsetting</u> requirement</li> <li>Rule 2004 requirement to have sufficient RTCs for reconciliation of actual emissions is not an NSR requirement and will not be an ongoing obligation after RECLAIM</li> </ul>	8

5	e #2 Summary er 13 & January 10 Working Group Meetings)
After facilities transition out of RECLAIM, when and how will a pre-modification PTE be calculated to determine if NSR requirements are triggered?	<ul> <li>Regulation XIII will apply to the first modification post-RECLAIM</li> <li>Purpose of calculating a pre-modification PTE is to determine if there is an emissions increase, if so need</li> <li>BACT</li> <li>Offsets</li> <li>Modeling</li> <li>Pre-modification PTE needs to be calculated in lbs/day</li> <li>Hierarchy of methodologies will be used to calculate</li> <li>Pre-NSR equipment based on existing Regulation XIII approach (2-year average)</li> </ul>

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How will the SCAQMD ensure that sufficient offsets	<ul> <li>Under Regulation XIII, if facilities transition out of RECLAIM the only source of offsets is the open market</li> </ul>	
are available to	Two main questions:	
satisfy NSR requirements?	<ul> <li>Question 1: Can the open market support facilities that transition out of RECLAIM?</li> </ul>	
	Question 2: If there are not sufficient offsets in the open market, what are possible options?	

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#### Question 1: Can the open market support facilities that transition out of RECLAIM?

- Staff Response: The open market cannot support the estimated demand from RECLAIM facilities for future NSR events
  - Insufficient ERCs
    - Supply in the open market
    - Possible demand for ERCs
  - Limited availability

### ERCs in the Open Market

- Amount of open market ERCs has been on a downward trend for the previous ten years
- Very little change in the previous three years
- Total available NOx ERCs in the open market: ~800 lbs/day^



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### Possible NOx Offset Demand from RECLAIM

- New facilities (entered after inception of RECLAIM)
  - RTC hold required at the beginning of each compliance period
  - Amount of RTCs is equal to the post-modification PTE (i.e. pre-modification PTE = zero)
- Existing facilities (in RECLAIM at its inception)
  - RTC hold required only for the first year of operation
  - Amount of RTC hold equals increase in emission, not post-modification PTE
- Emission increases during the 5 year period from 2011–2015
  - Average annual: ~1,000 lbs/day
  - Maximum annual: ~ 2,500 lbs/day











### NOx Offsets in the SCAQMD Internal Bank

- SCAQMD internal bank currently has >40,000 lbs/day of NOx offsets
- Offsets are SIP approved
  - Real
  - Permanent
  - Enforceable
  - Quantifiable
  - Surplus (discounted annually to BARCT)
- Sufficient NOx offsets in the internal bank to "seed" Large NOx Source Internal Bank



## Rule 1315 (g) Thresholds for Internal Bank – Purpose and Implications

credits for the five prior years

- Rule 1315 (g) establishes annual thresholds for use of offsets from the internal bank
  - Purpose of thresholds is to ensure net emission increases do not exceed the maximum emissions analyzed in the CEQA document
  - Analysis included sources that would be eligible to receive permits under Rule 1309.1 and Rule 1304
  - Thresholds were established based on the net emission increases according to the projected growth in the 2007 Air Quality Management Plan (AQMP)
- If annual threshold is exceeded
  - Offsets cannot be issued from the internal bank permit moratorium
  - To resume issuing offsets from the internal bank, the cumulative net emission increase must be 10 percent below the corresponding threshold

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	Year	NOx
	2011	0.15
Demonstration of Rule 1315 (g) Table B	2012	0.25
	2013	0.35
NOx Thresholds	2014	0.45
	2015	0.53
Table B thresholds are established from 2011 to 2030	2016	0.61
for all five criteria pollutants (VOC, NOx, SOx, CO, and	2017	0.68
	2018	0.76
PM10)	2019	0.84
Comparison to annual thresholds is based on minor and	2020	0.92
major Rule 1309.1 and 1304 facilities that obtain offsets	2021	1.00
from the Internal Bank	2022	1.08
	2023	1.15
Net emission increases are calculated according to the	2024	1.27
cumulative increases and decreases from prior years	2025	1.39
1 5	2026	1.50
Annual cumulative increases and decreases are	2027	1.62
reported in the SCAQMD's Regulation XIII Annual	2028	1.73
Status Report	2029	1.85
	2030	1.96



## Considerations of SCAQMD Internal Bank NOx Thresholds

- If RECLAIM facilities were to use the internal bank, may need to reevaluate NOx thresholds
  - Thresholds were based on Rule 1309.1 and 1304 facilities
  - 2018 threshold is 0.76 tons per day
  - The projected 2018 cumulative emission increase and decrease is 2.06 tons/day below the threshold
- Potential demand for offsets from RECLAIM facilities could be 2,500 lbs/day (1.25 tons/day) (Slide 17)
- Significant repercussions if an annual threshold is exceeded permit moratorium

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# Concept for Large NOx Source Internal Bank (Continued)

#### Seeding the Large NOx Source Internal Bank

- Offsets from SCAQMD Internal Bank
- Possible RTC conversion to ERCs

#### **Offset Generation**

 Generation of offsets from Large NOx Sources (PTE > 4 tons/year) would go back to the Large NOx Source Internal Bank

## Concept for Large NOx Source Internal Bank (Continued)

#### Access

- All former RECLAIM would have access
  - Includes small RECLAIM emitters (NOx PTE less than 4 tons/year)
- Access will also be given to all other sources that are not eligible to use the existing internal bank per Rules 1304 and 1309.1
  - These facilities would have been in RECLAIM had the program continued

#### Fees

All facilities would pay fees to obtain offsets





- Maintain RECLAIM NSR pursuant to Rule 2005
- Continue using RTCs to satisfy RECLAIM NSR requirements
- Would eliminate baseline issues, offset supply issues, and concerns about backsliding
- Generation of RTCs would be based on shutdowns
- RECLAIM facilities would have to reconcile emissions





Contacts		
General RECLAIM Questions	estions New Source Review	
•Gary Quinn, P.E. Program Supervisor 909-396-3121 gquinn@aqmd.gov	<ul> <li>Michael Morris</li> <li>Planning and Rules Manager</li> <li>909-396-3282</li> <li>mmorris@aqmd.gov</li> </ul>	•Lizabeth Gomez Air Quality Specialist 909-396-3103 Igomez@aqmd.gov
• Kevin Orellana Program Supervisor 909-396-3492 korellana@aqmd.gov	•Kevin Orellana Program Supervisor 909-396-3492 korellana@aqmd.gov	•Melissa Gamoning Assistant Air Quality Specialist 909-396-3115 mgamoning@aqmd.gov

Contacts			
Propo	osed Rule 1109.1	Proposed Amended Rule 1134	
•Heather Farr Program Supervisor 909-396-3672 hfarr@aqmd.gov	•Sarady Ka Air Quality Specialist 909-396-2331 ska@aqmd.gov	Michael Morris     Planning and Rules Manager     909-396-3282     mmorris@aqmd.gov	
•Jong Hoon Lee Air Quality Specialist 909-396-3903 jhlee@aqmd.gov		• Uyen-Uyen Vo Air Quality Specialist 909-396-2238 uvo@aqmd.gov	

### Contacts

Proposed Amended Rule 1110.2

- Kevin Orellana Program Supervisor 909-396-3492 korellana@aqmd.gov
- Rudy Chacon Air Quality Specialist 909-396-2726 rchacon@aqmd.gov

Proposed Rule 113

- •Gary Quinn, P.E. Program Supervisor 909-396-3121 gquinn@aqmd.gov
- Yanrong Zhu Air Quality Specialist 909-396-3289 yzhu I @aqmd.gov

Rule 1135

- Michael Morris Planning and Rules Manager 909-396-3282 mmorris@aqmd.gov
- Uyen-Uyen Vo Air Quality Specialist 909-396-2238 uvo@aqmd.gov

Contacts		
Rules I	146, 1146.1, 1146.2	Rule 1118.1
• Gary Quinn, P.E.	• Lizabeth Gomez	•Heather Farr
Program Supervisor	Air Quality Specialist	Program Supervisor
909-396-3121	909-396-3103	909-396-3672
gquinn@aqmd.gov	Igomez@aqmd.gov	hfarr@aqmd.gov
•Kalam Cheung, Ph.D.	• Shawn Wang	•Steve Tsumura
Program Supervisor	Air Quality Specialist	Air Quality Specialist
909-396-3281	909-396-3319	909-396-2549
kcheung@aqmd.gov	swang@aqmd.gov	stsumura@aqmd.gov