NOx RECLAIM WORKING GROUP MEETING

DECEMBER 13, 2018 SCAQMD DIAMOND BAR, CA

Agenda

- Landing Rule Updates
 - Rule 1146 Series/PR 1100
 - PR 1118.1
 - PAR 1134
 - PR 1109.1
 - PAR 1110.2
 - PAR 113
- New Source Review
 - Discussion of Key Issue #2 Establishing baselines to determine NSR events

LANDING RULE UPDATES

Command-and-Control BARCT Rulemaking Status

PAR 1146, 1146.1 and 1146.2



Boilers, steam generators, and heaters

- Public Hearing: December 2018
- Amendments approved by the Board

PR 1118.1



Non-Refinery Flares

 Public Hearing: January 2019

PAR 1134



Gas Turbines

- Public Workshop: December 18, 2018
- Public Hearing: April 2019

Command-and-Control BARCT Rulemaking Status

PR 1109.1



Refineries

- Request for Proposal for third party verification of BARCT analysis:
- Governing Board Approval Release December 7, 2018
- Working Group Meeting held November 28, 2018
- Next Working Group Meeting scheduled for mid-January
- Continuing site visits
- Public Hearing: 2019

PAR 1110.2



Gaseous- and Liquid-Fueled Engines

- Initiated site visits, more to be scheduled
- Sent survey questionnaire
- Public Workshop: 1st Quarter 2019
- Public Hearing: 3rd Quarter 2019

PR 113

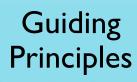


Monitoring, Reporting, and Recordkeeping

- Integrated MRR requirements for:
- Former RECLAIM
- Possibly non-RECLAIM
- Initiated preliminary analysis
- Comparing District and Federal requirements
- Conducted five site visits

UPDATE ON NEW SOURCE REVIEW

Key Issue #1 Summary (November 8 Working Group Meeting)





Federal

Requirements

No Backsliding

3 Questions:

Do ongoing Rule 2005 holding requirements need to be retained?

- Facilities that were permitted during RECLAIM are required to hold RTCs equal to their PTE year after year
- A programmatic demonstration can be done to show equivalency to the SIP-approved Rule 2005 requirement

Should an ongoing demonstration of an offsetting requirement be made for sources that were permitted during RECLAIM?

 No, RECLAIM NSR has a holding requirement but does not have ongoing offsetting requirements

Should current federal offsetting be demonstrated programmatically or individually by facility?

Future offsetting should be demonstrated programmatically

Summary of Three Key NSR Issues

For new sources
that are permitted
in RECLAIM,
what are the
offset obligations
as facilities
transition out of
RECLAIM?

For permits * issued without a NOx PTE, whe NOx PTE, when baseline be established to determine if an **NSR** event occurs after facilities transition out of RECLAIM?

How will the SCAQMD ensure that sufficient offsets are available to satisfy NSR requirements

Addressing Key Issue #2

Permitting under Regulation XIII

Regulation XIII versus RECLAIM NSR

Proposed pathway to transition sources to Regulation XIII

Permitting Under Regulation XIII

- Regulation XIII is SIP-approved Applies to the installation of any new source and to the modification of any existing source
- All new and modified permitted sources are reviewed under Regulation XIII
 - Regulation XIII acts as the "gatekeeper" to determine if a permit action results in an emission increase (NSR event)
 - Any emission increase must be offset (e.g., ERCs)
 - BACT and modeling is always required for new and modified sources

Permitting Under Regulation XIII (continued)

- When a facility submits a permit application for new or modified equipment, it will be evaluated for an emissions increase pursuant to Regulation XIII
- An emission increase would occur if:

Post-modification PTE (lbs/day) > Pre-modification PTE (lbs/day)

The emission increase is determined with a baseline PTE specified in <u>lbs/day</u>

Baseline PTEs Issued for Permits Over Specific Timeframes

 Baseline PTEs in RECLAIM permits depend on when past emission increases occurred

Pre-NSR

Permits issued Pre-1976

Post-NSR to Pre-RECLAIM Permits issued between
 1976 and 1993

During RECLAIM

Permits issued post-1993

Comparison of Non-RECLAIM and RECLAIM PTEs Over Specific Timeframes

	PTEs Non-RECLAIM	PTEs RECLAIM
Permits issued Pre-1976 (Pre-Regulation XIII NSR)	No PTE	Same
Permits issued 1976-1993 (Post-NSR to Pre-RECLAIM)	PTE in lbs/day	Same
Permits issued Post 1993 (During RECLAIM)		PTE lbs/hour
Permits issued Post 1993 (During RECLAIM)		No specified PTE (some cases)

Permits Issued Pre-NSR

Permitted Pre-NSR

- Sources that have never been subject to Regulation XIII or Rule 213 will have baseline emissions calculated pursuant to existing Regulation XIII provisions
- These sources have never had an NSR event through RECLAIM
- Regulation XIII has an established methodology to calculate emissions increases in lbs/day:

Post-modification PTE – Actual Emissions (lbs/day)

Baseline PTE

Permits Issued Post-NSR to Pre-RECLAIM

Permitted Post-NSR to Pre-RECLAIM

- Sources that have been subject to Regulation XIII or Rule
 213, but never had an NSR event during RECLAIM
- The baseline PTEs for these source have already been established pursuant to Regulation XIII
- Regulation XIII emission increase calculation in lbs/day:

Post-modification PTE— Pre-modification PTE (lbs/day)

Baseline PTE

Baseline Calculations (continued)

Permitted During RECLAIM

- Sources with emission increases during RECLAIM that have been subject to Rule 2005
- These sources may have:
 - 1) Baseline PTE specified in lbs/day
 - 2) Baseline PTE specified in lbs/hr
 - 3) No specified PTE, only concentration limit
 - 4) No specified PTE or concentration limit
- These baseline PTEs need to be converted to lbs/day to determine emission increases pursuant to Regulation XIII

Baseline Calculations (continued)

- 1) Baseline PTE specified in lbs/day
 - No further action required

Permitted During RECLAIM

- 2) Baseline PTE specified in lbs/hr
 - Use hourly mass limit multiplied by daily throughput limit, if available
 - If not, use 24 hours per day

Permits Without Specified PTEs

Permitted
During
RECLAIM

- Some sources that were permitted during RECLAIM do not have specified PTEs in lbs/hr
- No specified PTE, only concentration limit
 - Applies to some large sources and process units
 - Mass rates based on concentration limits
- No specified PTE or concentration limit
 - Applies to some major sources that do not have an hourly mass limit
 - Mass rates based on continuous emissions monitoring systems (CEMS) data

Baseline Calculations (continued)

3) No specified PTE, only concentration limit

Permitted During RECLAIM

- Use the most stringent concentration limit or equivalent concentration from RECLAIM emission factor, multiplied by throughput limit, if available
- If not, maximum throughput limit and 24 hours per day
- NOx PTE can be back-calculated from another pollutant PTE

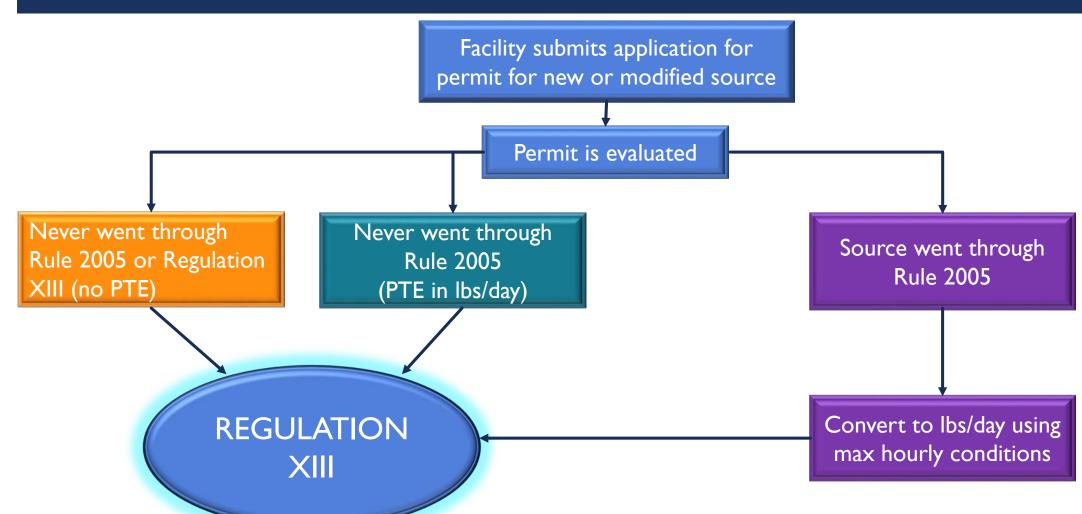
Baseline Calculations (continued)

Permitted During RECLAIM

4) No specified PTE or concentration limit

- Obtain maximum hourly emission rate from previous 12 month actuals prorated to maximum rated capacity and multiply by throughput limit, if available
- If not, multiply by maximum throughput limit and 24 hours per day
- Emission rate can be obtained from CEMS data

Overview of Establishing PTEs



When Will Permits Be Evaluated?

- When the facility submits a permit application to install new or modify existing equipment
- RECLAIM facilities will be issued new permits when they exit, but will retain existing NSR limits/conditions until next NSR event

Summary

- Baseline calculations will occur when a facility submits a permit application to determine if the facility has an emissions increase
- All permitting actions that result in an emissions increase will be subject to Regulation XIII
 - Baseline PTEs in lbs/hr will be converted to lbs/day
 - There is a baseline calculation methodology that covers all situations (e.g, for equipment without a PTE)
 - SIP-approved Regulation XIII will always be the "gatekeeper"

Update of Key Issue #3 - Ensuring Sufficient Offsets

How will the SCAQMD ensure that sufficient offsets are available to satisfy NSR requirements

- Discussed at October 2017 and April 2018 Working Group Meetings
 - Discussed concerns for availability of offsets in the open market
 - Discussed possible options for offsets
- Further discussion in subsequent meeting(s)
 - Identify potential sources of offsets after facilities transition out of RECLAIM?

NSR – Process Moving Forward

Continuing discussions with USEPA regarding RECLAIM NSR transition

Ensure all NSR, AQMP, and CAA requirements will be meet after sunset of RECLAIM program

Weekly calls with EPA

Periodic face-to-face meetings for more extensive discussions

Work with RECLAIM Working Group Meeting

Monthly RECLAIM Working Group Meetings will shift focus towards NSR

Continued discussions with stakeholders

Updates to Stationary Source Committee (SSC)

Quarterly presentation with quarterly RECLAIM update

Monthly written report

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Proposed Amended Rule 1134

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Proposed Amended Rule 1110.2

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New Source Review

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