Regulation XIII – 
New Source Review

Working Group Meeting
June 11, 2020

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Meeting ID: 428 516 2364
Teleconference Dial-In: 1-669-900-6833
Agenda

- Previous Working Group Meeting Summary
- Stakeholder Comment Letters
- Staff Responses to Comment Letters from RFG and WSPA
- Staff Responses to Comment Letter from LADWP
Previous Working Group Meeting Summary

- Staff presented concepts for a Large Source Bank for NOx, SOx, and PM10
  - For facilities with a Potential to Emit (PTE) ≥ 4 tons/year, for each pollutant
  - Apply a source-specific discount based on adopted rules
  - South Coast AQMD would manage the Large Source Bank - fee for offsets
- Discussed discounting approach to ensure offsets are surplus
- Stakeholders commented to maintain the Open Market and suggested ways to make it more successful
- Staff will continue discussions of the Large Source Bank at future working group meetings
- Introduced stakeholder comment letters which will be discussed during this working group meeting
Stakeholder Comment Letters

- South Coast AQMD has received three comment letters pertaining to Regulation XIII
  - April 21, 2020 from the Regulatory Flexibility Group (RFG)
  - April 27, 2020 from the Western States Petroleum Association (WSPA)
  - May 7, 2020 from the Los Angeles Department of Water and Power (LADWP)
- Today’s working group meeting responds to the comment letters
- Comment letters are posted on South Coast AQMD’s Proposed Rules Page
Regulation XIII Comments from RFG and WSPA

- RFG and WSPA comment letters have similar comments regarding on interpreting and implementing Regulation XIII during permitting for NOx landing rules
- WSPA comment letter includes additional issues specific to Proposed Rule 1109.1
  - During the Proposed Rule 1109.1 working group meeting staff will address the comments that are more specific to that rulemaking
- Presentation today provides staff’s responses to the Regulation XIII comments
Overview of Regulation XIII Comments from RFG and WSPA

- Comment letters from RFG and WSPA focus on New Source Review (NSR) requirements for units that install Selective Catalytic Reduction (SCR)

- Comments focus on:
  - **Ammonia Limits**: Where, when, and how ammonia emission limits for SCR units will be established
  - **PM BACT**: Applicability of PM BACT requirements for modifications with SCR
Summary of RFG and WSPA Comments Regarding Ammonia Limits

<table>
<thead>
<tr>
<th>Ammonia Limits</th>
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<tr>
<td>Incorporation of ammonia limit in rules or during permitting</td>
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<tr>
<td>Consideration of BACT ammonia limit when establishing NOx BARCT emission limit</td>
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<tr>
<td>Ammonia limit must be based on current BACT, with consideration of the NOx BARCT emission limit</td>
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Incorporation of Ammonia Limit in Rules or During Permitting

Comment

• Ammonia limits must be addressed during rulemaking and not deferred to permitting

- An ammonia slip limit of 5 ppm for units installing new SCR systems was included in:
  - Rules 1146 and 1146.1 for boilers and process heaters;
  - Rule 1134 for turbines; and
  - Rule 1135 combustion equipment at electricity generating facilities

- During the rulemaking for Rule 1110.2 (engines) ammonia limits were not included
  - During the rulemaking process staff decided that the ammonia slip is a BACT issue and should be addressed during permitting
  - Staff intends to remove the ammonia slip limits in the rules where ammonia limits were included
NSR Requirements for Modifications with Increased Ammonia Emissions

- Modifications such as installations of new SCR systems can trigger NSR for ammonia emissions from the ammonia slip
  - Rule 1303 (a)(1) requires BACT to be employed if the ammonia emissions increase by 1 pound/day or more
  - Rule 1304 (c)(5) exempts offset requirements for sources modified solely to comply with air pollution control rules provided there is no increase in maximum rating
  - BACT for ammonia is 5 ppm
- Existing SCR units are not subject to NSR or the 5 ppm BACT limit unless they are modified
  - Staff only included ammonia limits in Rules 1146, 1146.1, 1134, and 1135 for new SCR systems
  - Staff intends to allow existing units to maintain existing permit limits for ammonia

1 South Coast AQMD BACT Guidelines – Overview, February 2019
Why Addressing Ammonia Emissions During Permitting is More Appropriate

<table>
<thead>
<tr>
<th>Ammonia Emissions from New SCRs are an NSR Issue</th>
<th>Ammonia Limits Can be Evaluated Case-by-Case During Permitting</th>
<th>Ammonia Limit in Rule Will be More Limiting</th>
<th>Less Stringent Ammonia Limit in Rule is Misleading</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Rule 1303 (a)(1) requires BACT if the ammonia emissions are ≥ 1 pound/day</td>
<td>• During permitting ammonia limit will be evaluated relative to the NOx limit in rule</td>
<td>• When the ammonia limit is specified in the rule, options are limited if the operator cannot achieve the ammonia limit</td>
<td>• A more stringent BACT ammonia limit will apply, regardless of a higher ammonia limit in a rule</td>
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<td>• BACT for ammonia emissions from SCR is 5 ppm</td>
<td>• Evaluation will consider the existing unit and limitations for achieving a 5 ppm ammonia limit</td>
<td>• Some exceptions may allow a higher ammonia limit than BACT (e.g., 5 ppm) during permitting</td>
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<td>• Ammonia limit must be achievable at time of permitting</td>
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Consideration of BACT Ammonia Limit When Establishing NOx BARCT Emission Limit

Rule development does consider BACT ammonia limits when establishing the NOx BARCT emission limit
- Technical feasibility analysis is based on a 5 ppm ammonia limit for a new SCR installation
- Costs for achieving 5 ppm ammonia is included in the cost-effectiveness analysis

Proposed Rule 1109.1 costs are based on EPA’s SCR cost-estimator model and cost information from affected refineries

Cost estimates for the SCR engineering and design include technologies to reduce ammonia slip
- Improved injection grids for better mixing of ammonia
- Ammonia feed control

Comment
- Ammonia limits must be addressed during rulemaking and not deferred to permitting
- Including ammonia limits will ensure that the implications of those limits are considered when setting the NOx BARCT standard
Technologies to Reduce Ammonia Slip

**Improved Injection Grids for Better Mixing**
- Increase the number injection points and location for ammonia reagent
- Allows for fine tuning and variation of ammonia injection rates
- Improves mixing and contact between ammonia/NOx for improved removal efficiency

**Ammonia Feed Control**
- Automated ammonia feed injection control based on either NOx concentration, flow rate, or other algorithm

**Ammonia Slip Catalyst**
- Oxidation catalyst generally platinum or other expensive metal
  - Potential to convert ammonia to NOx
  - Not traditionally used in refinery applications
Ammonia Limit Must be Based on Current BACT with Consideration of the NOx BARCT Emission Limit

- Ammonia BACT limit for SCR permitting project is based on current BACT at the time of permit issuance taking into consideration:
  - NOx emission limit in applicable rule
  - Class and category of the equipment which includes equipment size, fuel type, use, and any other relevant factors
  - Any unique circumstances that may limit the ability of the modified unit with SCR to achieve a 5 ppm ammonia limit
- If facilities install ammonia CEMS, staff can explore longer averaging times for ammonia

Comment
- Ammonia BACT limits for SCR must be based on levels that can be achieved with currently available technology for that class and category of source of equipment
- Must consider all relevant factors including the NOx BARCT standard to be achieved
Summary of RFG and WSPA Comments Regarding PM BACT on Basic Equipment for SCR Modifications

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<th>Application of PM BACT on Basic Equipment for SCR Modifications</th>
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<tr>
<td>PM2.5 is regulated exclusively under Rule 1325</td>
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<tr>
<td>Other than Rule 1325, Regulation XIII does not regulate ammonia as a PM2.5 precursor</td>
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<tr>
<td>BACT requirement extends only to the source of the emission increase</td>
</tr>
<tr>
<td>Determination of emission increase must include consideration of NOx reductions</td>
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PM2.5 is Regulated Exclusively Under Rule 1325

- South Coast AQMD was required to adopt Rule 1325 to establish NSR requirements for PM2.5 to avoid federal sanctions
- Rule 1325 incorporates the federal minimum requirements for PM2.5 NSR
- Staff agrees that many of the provisions in Rule 1325 are exclusive to PM2.5 and do not apply to other portions of Regulation XIII such as:
  - NSR applicability test for PM2.5
  - Definition of a significant net increase in PM2.5 emissions
  - Definition of major modification for PM2.5

Comment

- PM created from ammonia slip is PM2.5
- PM2.5 is regulated exclusively under Rule 1325 and the remainder of Regulation XIII does not apply to PM2.5
- Application of PM2.5 threshold for SCR installations
PM2.5 is Regulated as PM10 Under Regulation XIII

- PM10 is a nonattainment pollutant under state standards and is regulated under Regulation XIII
- PM2.5 is a subset of PM10 and major source emission increases in PM2.5 are regulated as PM10 under Rule 1303
  - Even if a facility does not trigger NSR for PM2.5 under Rule 1325, NSR can be triggered based on PM10 emissions
- BACT and offsets for PM10 will apply well before any threshold for PM2.5 under Rule 1325 are reached
  - PM10 net emissions increase is 1.0 lb/day
  - PM2.5 net emissions increase is 55 lbs/day (10 tons/year)
- SB 288 prohibits adopting amendments that weaken NSR provisions that were in place on December 2002
Major Source Modification Will Trigger PM10 NSR Before PM2.5 NSR Requirements Under Rule 1325

- Unlikely a major source modification will trigger NSR under Rule 1325 for PM2.5 because NSR requirements for PM10 are more stringent
- Unlikely PM2.5 offsets would be required for a new facility
  - Offset not required unless PM2.5 emissions > 70 tons/year

### Higher Threshold for Net Increase
- Rule 1325 establishes a significant net increase for a major source modification at 55 lbs/day (10 tons/year)
- Trigger for PM10 net increase is 1.0 lb/day

### NSR Applicability Test
- Rule 1325 allows Baseline Actual-to-Projected Actual federal emissions test for PM2.5
- PM10 NSR applicability is based on a PTE-to-PTE emissions test

### Definition of Major Source Modification
- Includes exclusions for certain types of modifications
- PM10 NSR requirements are based on emission limits with no exclusions
Other than Rule 1325, Regulation XIII Does Not Regulate Ammonia as a PM2.5 Precursor

Comment

- Ammonia is regulated as a PM2.5 precursor under Rule 1325
- Regulation XIII regulates direct ammonia emissions and only Rule 1325 regulates ammonia as a precursor
- Rule 1303 does not regulate ammonia that results in an increase of secondary PM2.5 emissions

- There are two ammonia by-products from SCR
  - Directly emitted ammonia from the ammonia slip
  - Directly emitted PM10 emissions from the ammonium sulfate
- Pursuant to Rule 1303(a) increases of ammonia emissions are subject to BACT – for SCR ammonia slip is 5 ppm
- PM10 emissions are generated from ammonium sulfate emissions
Two Ammonia By-Products from SCR
Directly Emitted Ammonia – Ammonia Slip

- SCR uses a catalyst and ammonia reduce NOx to N₂ and H₂O
- Unreacted ammonia that passes through the catalyst is directly emitted – referred to as ammonia slip.
Directly Emitted PM10 Emissions

- Sulfur in fuel increases SO$_2$ emissions from boilers and heaters
- SO$_2$ is converted to SO$_3$ on SCR catalyst
- Unreacted ammonia reacts with SO$_3$ to form PM

Refinery fuel gas contains sulfur species which convert to SOx (mostly SO$_2$)
BACT Requirement Extends Only to the Source of the Emission Increase

- Installation of the SCR is considered a modification of the combustion unit
  - Rule 1303 (a)(1) applies to a modified source that results in an emission increase
  - The combustion unit is a modified source due to the installation of SCR
  - Staff has discussed this issue and your interpretation of “actual modification” with U.S. EPA

- Sulfur in the refinery fuel gas is the source of SO₂ emissions which the SCR catalyst converts the SO₂ to SO₃
  - Ammonia in the catalyst combines with SO₃ to form ammonium sulfate which is PM

Comment
- Scope of PM BACT is limited to the SCR unit and should not extend to the combustion source
- BACT should only apply to the control equipment (new source) and not the basic equipment
- “Actual modification” is installation of SCR, and combustion source is not being modified
Determination of Emission Increase Must Include Consideration of NOx Reductions

- To date, U.S. EPA has never allowed modeling of emissions to be used in netting exercises.
- U.S. EPA commented that modeling of emissions in netting cannot be used for NSR applicability.
  - NOx reductions are relied upon in the SIP and those reductions are not eligible for netting.
  - NSR applicability is based on emission rates at the stack and is not feasible for netting.
- U.S. EPA commented that modeling has been used for interpollutant trading for offsets.
  - Approach may be more appropriate for offsetting.

Comment
- The determination of whether or not a PM “emission increase” has occurred must include consideration of the NOx reduction.
- Modeling should be allowed to determine whether there is an overall PM increase in atmosphere.
Discussions with U.S. EPA Regarding Applicability of BACT for Basic Equipment When Installing Control Equipment

- U.S. EPA provided the following comments regarding the application of BACT for co-pollutants as a results of the installation of the SCR
  - U.S. EPA agrees with staff that BACT is applicable to all emissions for which there is a significant increase in emissions (e.g., above BACT thresholds)
  - If the project will result in an increase of a regulated pollutant above the NSR threshold, BACT/LAER is applicable
  - BACT is applied to the pollutant and not the unit
  - BACT/LAER analysis conducted on a case-by-case basis and achieved in practice
- Staff will be working on a BACT/LAER analysis for PM emissions from SCR
- Staff presented an additional concept to U.S. EPA for the evaluation of a net increase in PM (next slide)
  - Approach focuses on the timing and location of the formation of PM emissions before and after installation of SCR system
Evaluation of the Net Increase in PM Discussed with U.S. EPA

Sulfur content in fuel will be the limiting factor for PM emissions in both cases.

- Staff presented concept to U.S. EPA
- U.S. EPA does not agree with this approach because the regulations apply to emissions formed and measured in the stack.
May 7, 2020
Comment Letter from Los Angeles Department of Water & Power (LADWP)
Summary of LADWP Comment Letter

- LADWP is concerned that South Coast AQMD will adopt Baseline Actual-to-PTE test for determining NSR applicability
- LADWP believes Baseline Actual-to-Projected Actual test can be used for determining NSR applicability for several different reasons (next slide)
Overview of LADWP’s Key Points

<table>
<thead>
<tr>
<th>Key Points for Using Baseline Actual-to-Projected Actual for NSR Applicability</th>
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<tr>
<td><strong>SCAQMD is authorized to issue NSR permits for major sources under a “delegation agreement” with U.S. EPA</strong></td>
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<tr>
<td><strong>Allowed since July 1992 for Electricity Generating Facilities (EGFs) pursuant to federal regulations</strong></td>
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<tr>
<td><strong>Not backsliding under SB 288 because Rules 1325 and 1714 include a Baseline Actual-to-Projected Actual applicability test</strong></td>
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<td><strong>Federal CAA Section 110(l) does not preclude adopting a Baseline Actual-to-Projected Actual applicability test</strong></td>
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<tr>
<td><strong>Actual Emissions-to-PTE applicability test has adverse regulatory and permitting impacts without corresponding air quality gains</strong></td>
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SCAQMD is Authorized to Issue NSR Permits for Major Sources Under a “Delegation Agreement” with U.S. EPA

Comment
• South Coast AQMD’s NSR program is an EPA delegated program instead of a fully EPA approved program, therefore all NSR permits need to be coordinated with U.S. EPA

- South Coast AQMD’s Nonattainment NSR program is an approved program under Regulation XIII
- Changes to federal NSR that affect Regulation XIII must be incorporated in Regulation XIII and submitted to CARB and U.S. EPA for approval
  - Changes to federal NSR that affect sources regulated under Regulation XIII will not apply until Regulation XIII is amended
  - For example, South Coast AQMD never amended Regulation XIII to incorporate federal revisions for EGFs that would allow use of a Baseline Actual-to-Projected Actual applicability test, so that federal NSR applicability test is not applicable to EGFs
Allowed Since July 1992 for EGFs Pursuant to Federal Regulations

- U.S. EPA did allow EGFs to use a Baseline Actual-to-Projected Actual applicability test in 1992
  - Regulation XIII was never amended to allow EGFs to use Baseline Actual-to-Projected Actual applicability test
- Current NSR applicability test for all facilities for VOC, NOx, PM10, SOx, and CO is PTE-to-PTE (Rule 1306(d))
- U.S. EPA has approved Regulation XIII, including the PTE-to-PTE applicability test

Comment
- July 1992 Federal NSR Regulations allowed a Baseline Actual-to-Projected Actual NSR applicability for EGFs
- “…this test has applied for many years to electric generating facilities in the SCAB through SCAQMD’s NSR delegated program”
Not Backsliding Under SB 288 Because Rules 1325 and 1714 Include a Baseline Actual-to-Projected Actual Applicability Test

Comment

• Using Baseline Actual-to-Projected Actual is not backsliding under SB 288 because Rules 1325 and 1714 have incorporated this applicability test

- SB 288 prohibits backsliding of NSR requirements that were in place as of December 30, 2002
- On December 30, 2002, the Regulation XIII applicability test was PTE-to-PTE for all facilities for VOC, NOx, PM10, SOx, and CO
- Rule 1325 was adopted in 2011 for PM2.5 and Rule 1714 was adopted in 2010 for greenhouse gases (GHGs)
  - Both rules were new, for new pollutants after December 30, 2002
  - Both rules did not make Regulation XIII less stringent, because there were no provisions on December 2002
  - Adoption and implementation of these rules, including their NSR applicability test, is not backsliding under SB 288
Federal CAA Section 110(l) Does Not Preclude Adopting a Baseline Actual-to-Projected Actual NSR Test

At the June 13, 2019 Regulation XX Working Group Meeting, staff presented that Baseline Actual-to-Projected Actual is one of the NSR applicability tests allowed by 2002 NSR Reform:

- Staff did not pursue a Baseline Actual-to-Projected Actual applicability test because it could result in backsliding under SB 288
- Staff did not cite Section 110(l) as a reason for not pursuing a Baseline Actual-to-Projected Actual NSR applicability test

Comment:
- Baseline Actual-to-Projected Actual test preserves status quo air quality and does not constitute a relaxation under CAA 110(l)
Actual-to-PTE NSR Applicability Test Has Adverse Regulatory and Permitting Impacts Without Corresponding Air Quality Gains

**Comment**
- Use of a Baseline Actual Emissions-to-PTE NSR applicability will impose considerable resource burdens to implement these NSR permitting requirements while having de minimis air quality and environmental impacts

- More major source modifications will be subject to NSR under an Actual-to-PTE applicability test compared to a PTE-to-PTE applicability test
- Staff’s preference is to maintain PTE-to-PTE
- Staff’s understanding was that there were two options under the 2002 NSR Reform rules:
  - Baseline Actual-to-Projected Actual
  - Baseline Actual-to-PTE
- As discussed in previous working group meetings, staff concluded that a Baseline Actual-to-Projected Actual applicability test would have issues with SB 288
- As a result, staff moved towards an Actual-to-PTE NSR applicability test
Revisiting Retaining the PTE-to-PTE Applicability Test with U.S. EPA

- Comments raised by LADWP prompted staff to revisit NSR Reform Rules and associated documents related to the NSR applicability test
- Staff took a closer look at:
  - NSR Reform Rules
  - The 2003 Technical Support Document for NSR Reform Rules and Response to Comments
- During the May 28, 2020 conference call with U.S. EPA staff discussed retaining the PTE-to-PTE applicability test for major source modifications
U.S. EPA’s Response and Possible Path Forward

- U.S. EPA disagreed with staff’s presentation of retaining PTE-to-PTE applicability test
- Staff presented an alternative applicability test for major source modifications that could:
  - Retain the PTE-to-PTE applicability test and add the federal applicability test; and
  - This approach would comply with SB 288, because it would retain current applicability requirements
- Approach would be based on a two-tiered approach (next slide)
- Staff has discussed concept with U.S. EPA and CARB
Proposed NSR Applicability Test for Major Source Modifications

Does major source modification result in an emission increase for PTE-to-PTE?

Yes -> Applicable to NSR

No

Does major source modification result in an emission increase based on Baseline Actual-to-Projected Actual?

Yes -> Applicable to NSR

No

NSR is not Applicable

- First applicability test is PTE-to-PTE
- Not backsliding under SB 288 since PTE-to-PTE applicability test is layered with the federal applicability test
- Still incorporates the Baseline Actual-to-Projected Actual applicability test consistent with NSR Reform rules
Next Steps for Proposed NSR Applicability Test

- Staff will continue work with U.S. EPA and CARB
- Staff will refine the federal applicability test and provide more details in a future working group meeting
- Need to ensure the applicability test is:
  - Permittable
  - Enforceable
  - Clear and provides guidance for compliance demonstration, including monitoring, recordkeeping, and reporting and ramifications if projected actual emissions are exceeded
Proposed NSR Applicability Test for Minor Sources and New Major Sources

- Minor source modifications will retain PTE-to-PTE
- New sources (major and minor) will retain Actual-to-PTE
- Staff is also proposing to allow major source modifications for recently permitted units to continue to use a PTE-to-PTE applicability test, with no second tier (federal applicability test)
- NSR Reform rules do allow major source modifications for recently permitted units to use a PTE-to-PTE applicability test if:
  - The recently permitted unit has existed for less than 24 months from the date the unit first operated
# Summary of Proposed Major Source NSR Applicability Test

<table>
<thead>
<tr>
<th>New or Modified Major Emission Sources</th>
<th>Current Regulation XIII Applicability Test</th>
<th>Proposed Change to Applicability Test</th>
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<tbody>
<tr>
<td>New major emission source</td>
<td>Actual-to-PTE</td>
<td>Actual-to-PTE</td>
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<tr>
<td>Modification to existing pre-NSR major emission source</td>
<td>Actual-to-PTE</td>
<td>Actual-to-PTE</td>
</tr>
<tr>
<td>Modification to existing post-NSR major emission source (Need approval from U.S. EPA and CARB)</td>
<td>PTE-to-PTE</td>
<td>1st Tier: PTE-to-PTE 2nd Tier: Federal applicability test¹</td>
</tr>
<tr>
<td>Modifications to existing post-NSR major emission source, for new recently permitted unit within past 24 months</td>
<td>PTE-to-PTE</td>
<td>PTE-to-PTE</td>
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¹ More details regarding federal applicability test (Baseline Actual-to-Projected Actual) will be discussed in future Working Group Meetings

**Note:** No changes to the NSR applicability test for minor sources
# Contacts

<table>
<thead>
<tr>
<th>General RECLAIM Questions</th>
<th>New Source Review</th>
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