

BOARD MEETING DATE: September 1, 2017

AGENDA NO. 28

REPORT: Status Report on Regulation XIII – New Source Review

SYNOPSIS: This report presents the federal Final Determination of Equivalency for January 2015 through December 2015. As such, it provides information regarding the status of Regulation XIII – New Source Review in meeting federal NSR requirements and shows that SCAQMD’s NSR program is in final compliance with applicable federal requirements from January 2015 through December 2015.

COMMITTEE: Stationary Source, July 21, 2017, Reviewed

RECOMMENDED ACTIONS:
Receive and file the attached report.

Wayne Nasti
Executive Officer

LT:WCT:JDT

SUMMARY

SCAQMD’s New Source Review (NSR) Rules and Regulations are designed to comply with federal and state Clean Air Act requirements and ensure that emission increases from new and modified sources do not interfere with efforts to attain and maintain the federal and state air quality standards, while economic growth in the South Coast region is not unnecessarily impeded. Regulation XIII - New Source Review regulates and accounts for all emission changes (both increases and decreases) from the permitting of new, modified, and relocated stationary sources within the SCAQMD, excluding NO_x and SO_x sources that are subject to Regulation XX – Regional Clean Air Incentives Market (RECLAIM)¹.

¹ While the RECLAIM program is different than command-and-control rules for NO_x and SO_x and provides greater regulatory flexibility to businesses, its NSR requirements, as specified in Rule 2005, are designed to comply with the governing principles of NSR contained in the federal Clean Air Act (CAA) and the California State Health and Safety Code.

Rule 1315 – Federal New Source Review Tracking System, was adopted by the Board on February 4, 2011 to maintain SCAQMD’s ability to issue permits to major sources that require offsets, but obtain offset credits from the SCAQMD’s Priority Reserve under Rule 1309.1, and/or that are exempt from offsets under SCAQMD Rule 1304. Since these sources are not exempt from offsets under the federal Clean Air Act, SCAQMD provides offsets from the SCAQMD’s “internal bank” consisting primarily of “orphan shutdowns,” i.e. emissions from sources that shut down but did not apply for emission reduction credits. The purpose of this Determination of Equivalency is to show that there are sufficient offsets in the internal bank to cover sources using these offsets for the year in question and projected to be used for the following two years.

Rule 1315 requires that, commencing with calendar year 2010, and for each calendar year thereafter, the Executive Officer prepare a Preliminary Determination of Equivalency (PDE) and Final Determination of Equivalency (FDE), which cover NSR activities for twelve-month periods. The calendar year 2015 FDE is required to be reported to the SCAQMD Board at the September 2017 Governing Board meeting. In addition, Rule 1315 requires the Executive Officer to aggregate and track offsets debited from and deposited to SCAQMD’s offset accounts for specified periods between October 1, 1990 and December 31, 2005 and each calendar year from 2006 through 2030 for purposes of making periodic determinations of compliance. The last annual report submitted to the SCAQMD Board on March 3, 2017 presented the PDE for calendar year 2015 and demonstrated that SCAQMD’s NSR program continued to meet the federal offset requirements for calendar year 2015. Rule 1315 also requires that, commencing with calendar year 2011, and for each calendar year thereafter, the Executive Officer include in each FDE the cumulative net emission increase of each nonattainment air contaminant that occurred at major and minor facilities from February 4, 2011, the date of adoption of Rule 1315, through the end of the calendar year 2011 reporting period and through the end of each subsequent reporting period, and the projected cumulative net emission increases at the end of each of the two subsequent reporting periods, which for the calendar year 2015 FDE are calendar years 2016 and 2017.

This report, which presents the FDE covering the calendar year 2015 reporting period, and includes the net emission increase of each nonattainment air contaminant, demonstrates compliance with federal NSR requirements by establishing aggregate equivalence with federal offset requirements for sources that were not exempt from federal offset requirements, but were either exempt from offsets or obtained their offsets from SCAQMD pursuant to Regulation XIII.

The FDE for calendar year 2015 is summarized in Table 1. Additionally, the projections of SCAQMD’s federal offset account balances for January 2016 through December 2016 and January 2017 through December 2017, as specified and required pursuant to Rule 1315(e), are presented in Table 2. These results demonstrate that there

were, and project that there will be, adequate offsets available to mitigate all applicable emission increases during these reporting periods. This report, therefore, demonstrates that, for calendar years 2015 through 2017, SCAQMD's NSR program continues to meet and is projected to meet federal offset requirements and is equivalent to those requirements on an aggregate basis². Although the United States Environmental Protection Agency (U.S. EPA) designated the SCAQMD as being in attainment with the federal CO standard effective June 11, 2007, and the South Coast Air Basin as being in attainment with the federal PM10 standard effective July 26, 2013, the Coachella Valley has not attained the PM10 NAAQS. Therefore, SCAQMD will continue to track and report CO and PM10 (in the South Coast Air Basin) accumulated credits and account balances for informational purposes only.

Table 1
Federal Offset Accounts FDE for January 2015 through December 2015

DESCRIPTION	VOC	NO _x	SO _x	CO	PM10
2014 Actual Ending Balance^a (tons/day)	98.89	26.13	3.39	12.33	14.59
2015 Discount of Credits for Surplus Adjustment ^b (tons/day)	-0.03	-3.04	0.00	0.00	0.00
2015 Actual Total Credits ^c (lb/day)	5,946	3,642	1,529	6,643	1,027
2015 Actual Total Debits ^c (lb/day)	-719	-838	0	-1,710	-115
2015 Sum of Actual Credits/Debits^c (lb/day)	5,227	2,804	1,529	4,933	912
2015 Sum of Actual Credits/Debits^c (tons/day)	2.61	1.40	0.76	2.47	0.46
2015 Actual Ending Balance^d (tons/day)	101.47	24.49	4.15	14.80	15.05

^a "2014 Actual Ending Balance" is from Table 1 of the 2015 PDE Report dated March 5, 2017.

^b This adjustment is surplus at the time of use discount, which is also discussed in Rule 1315(c)(4).

^c For an explanation of the sources of credits and debits please refer to page 9 of this report, as well as Rule 1315(c) and the February 4, 2011 Rule 1315 staff report. Credits are shown as positive and debits as negative, while the sums of credits/debits are shown as positive or negative, as appropriate.

^d "2015 Actual Ending Balance" equals the "2014 Actual Ending Balance," plus the "2015 Discount of Credits for Surplus Adjustment" and the "2015 Sum of Actual Credits/Debits."

² SCAQMD's NSR program is deemed to be equivalent to federal offset requirements. SCAQMD's ending offset account balances remained positive, indicating there were adequate offsets during this reporting period.

Table 2
Projections of SCAQMD's Federal Offset Account Balances for
January 2016 through December 2016, and
January 2017 through December 2017

DESCRIPTION	VOC	NO _x	SO _x	CO	PM ₁₀
2015 Actual Ending Balance^a (tons/day)	101.47	24.49	4.15	14.80	15.05
2016 Projected Discount of Credits for Surplus Adjustment ^b (tons/day)	-0.11	-1.16	0.00	-0.11	0.00
2016 Projected Starting Balance (tons/day)	101.36	23.33	4.15	14.69	15.05
2016 Total Projected Credits ^c (lb/day)	9,714	2,313	585	3,990	1,238
2016 Total Projected Debits ^c (lb/day)	-739	-391	0	-4,161	-115
2016 Sum of Projected Credits/Debits^c (lb/day)	8,975	1,922	585	-171	-1,123
2016 Sum of Projected Credits/Debits^c (tons/day)	4.49	0.96	0.29	-0.09	0.56
2016 Projected Ending Balance^d (tons/day)	105.85	24.29	4.44	14.60	15.61
2017 Projected Discount of Credits for Surplus Adjustment ^b (tons/day)	-0.14	-1.38	0.00	-0.12	0.00
2017 Projected Starting Balance (tons/day)	105.71	22.91	4.44	14.48	15.61
2017 Total Projected Credits ^c (lb/day)	9,731	2,393	622	4,034	1,123
2017 Total Projected Debits ^c (lb/day)	-781	-439	0.00	-4,993	-51
2017 Sum of Projected Credits/Debits^c (lb/day)	8,950	1,954	622	-959	1,072
2017 Sum of Projected Credits/Debits^c (tons/day)	4.48	0.98	0.31	-0.48	0.54
2017 Projected Ending Balance^e (tons/day)	110.19	23.89	4.75	14.00	16.15

^a "2015 Actual Ending Balance" is as shown in Table 1.

^b This adjustment is surplus at the time of use discount, which is also discussed in Rule 1315(c)(4).

^c For an explanation of the sources of credits and debits please refer to page 9 of this report, as well as Rule 1315(c) and the Rule 1315 staff report. Credits are shown as positive and debits as negative, while the sums of credits/debits are shown as positive or negative, as appropriate.

^d "2016 Projected Ending Balance" equals the "2015 Actual Ending Balance," plus the "2016 Projected Discount of Credits for Surplus Adjustment" and the "2016 Sum of Projected Credits/Debits."

^e "2017 Projected Ending Balance" equals the "2016 Projected Ending Balance" plus the "2017 Projected Discount of Credits for Surplus Adjustment" and the "2017 Sum of Projected Credits/Debits."

Table 3
Cumulative Net Emission Increase
(February 4, 2011 – December 31, 2015)

DESCRIPTION	VOC	NO _x	SO _x	CO	PM ₁₀
2014 Net Emission Increase^a (tons/day)	-12.82	-0.85	0.02	N/A	-0.28
2015 Increases in Potential to Emit ^b (tons/day)	2.23	1.24	0.26	N/A	0.67
2015 Decreases in Potential to Emit ^c (tons/day)	-3.72	-2.28	-0.96	N/A	-0.64
Cumulative Net Emission Increase^d (tons/day)	-14.31	-1.89	-0.68	N/A	-0.25
Rule 1315(g) Table B Threshold (through December of 2015 - tons/day)	6.30	0.53	0.14	N/A	0.90

^a “2014 Net Emission Increase” is from Table 3 of the FDE report dated September 2, 2016.

^b Increases in potential to emit that occur at major and minor facilities pursuant to Rule 1304 or Rule 1309.1.

^c Decreases in potential to emit that occur at major and minor facilities pursuant to Rule 1304 or Rule 1309.1.

^d “Cumulative Net Emission Increase” is the sum of the increases and decreases in the potential to emit that occur at major and minor facilities pursuant to Rule 1304 or Rule 1309.1 over the period of February 4, 2011, through December 31, 2015.

Table 4
Projections of Cumulative Net Emission Increase
January 2016 through December 2016, and
January 2017 through December 2017

DESCRIPTION	VOC	NO _x	SO _x	CO	PM ₁₀
2015 Net Emission Increase^a (tons/day)	-1.49	-1.04	-0.70	N/A	0.03
2016 Projected Emission Increase ^b (tons/day)	2.92	1.03	0.21	N/A	0.68
2016 Projected Emission Decrease ^b (tons/day)	-5.76	-1.33	-0.32	N/A	-0.70
2016 Projected Cumulative Net Emission Increase^c (tons/day)	-4.33	-1.34	-0.81	N/A	0.01
Rule 1315(g) Table B 2016 Threshold (tons/day)	7.58	0.61	0.18	N/A	1.09
2017 Projected Emission Increase ^d (tons/day)	2.83	1.02	0.22	N/A	0.58
2017 Projected Emission Decrease ^d (tons/day)	-5.88	-1.39	-0.36	N/A	-0.64
2017 Projected Cumulative Net Emission Increase^e (tons/day)	-7.38	-1.71	-0.95	N/A	-0.05
Rule 1315(g) Table B 2017 Threshold (tons/day)	8.85	0.68	0.21	N/A	1.29

^a “2015 Net Emission Increase” is the sum of the “2015 Increase in Potential to Emit” and “2015 Decrease in Potential to Emit” shown in Table 3.

^b “2016 Projected Emission Increase” and “2016 Projected Emission Decrease” are the averages of the 2011, 2012, 2013, 2014 and 2015 increases and decreases, respectively, in potential to emit.

^c “2016 Projected Cumulative Net Emission Increase” is the sum of the “2016 Projected Emission Increase” and “2016 Projected Emission Decrease” added to the “2015 Net Emission Increase.”

^d “2017 Projected Emission Increase” and “2017 Projected Emission Decrease” are the averages of the 2012, 2013, 2014, 2015 and projected 2016 increases and decreases, respectively, in potential to emit.

^e “2017 Projected Cumulative Net Emission Increase” is the sum of the “2017 Projected Emission Increase” and “2017 Projected Emission Decrease” added to the “2016 Projected Cumulative Net Emission Increase.”

BACKGROUND

SCAQMD originally adopted its New Source Review Rules and Regulations (NSR program) in 1976. U.S. EPA approved SCAQMD’s NSR program into California’s State Implementation Plan (SIP) initially on January 21, 1981 (46FR5965) and again on December 4, 1996 (61FR64291). Most recently, U.S. EPA approved SCAQMD’s May 3, 2002 Rule 1309.1 amendments into the SIP on June 19, 2006. The original program has evolved into the current version of the Regulation XIII rules in response to federal and state legal requirements and the changing needs of the local environment and

economy. Specific amendments to the NSR rules were adopted by SCAQMD's Board on December 6, 2002 to facilitate and provide additional options for credit generation and use. Rule 1315 was adopted and re-adopted on September 8, 2006 and August 3, 2007, respectively. Rule 1309.1 was amended and replaced on September 8, 2006 and August 3, 2007, respectively. On November 3, 2008, in response to a law suit filed by a group of environmental organizations, a California State Superior Court Judge in the County of Los Angeles invalidated the August 3, 2007 adopted Rule 1315 and amendments to Rule 1309.1, and prohibited SCAQMD from taking any action to implement Rule 1315 or the amendments to Rule 1309.1 until it had prepared a new environmental assessment under the California Environmental Quality Act (CEQA). On February 4, 2011 SCAQMD adopted a revised and enhanced version of Rule 1315, which included a new CEQA assessment. U.S. EPA approved Rule 1315 into the SIP, and this approval was upheld by the U.S. Court of Appeals for the Ninth Circuit Court in 2015.

One element of SCAQMD's NSR program design is to offset emission increases in a manner at least equivalent to federal and state statutory NSR requirements. To this end, SCAQMD's NSR program implements the federal and state statutory requirements for NSR and ensures that construction and operation of new, relocated and modified stationary sources does not interfere with progress towards attainment of the National and State Ambient Air Quality Standards. SCAQMD's computerized emission tracking system is utilized to demonstrate equivalence with federal and state offset requirements on an aggregate basis. Specific NSR requirements of federal law are presented below.

Federal Law

The NSR requirements of federal law vary with respect to the area's attainment status and classification. Based on their classification in 2007, the South Coast Air Basin (SOCAB) and Salton Sea Air Basin (SSAB) must comply with the requirements for severe 17 and severe non-attainment areas, respectively, for ozone precursors (*i.e.*, VOC and NO_x). However, in May of 2010, the SOCAB was re-designated as an extreme non-attainment area for ozone. During the equivalency period, both the SOCAB and the SSAB complied with their respective requirements for ozone non-attainment and serious non-attainment for PM₁₀ and its precursors (*i.e.*, VOC, NO_x, and SO_x)³. SSAB is considered in attainment for CO. Although effective June 11, 2007, U.S. EPA designated the SOCAB as in attainment with federal CO standards, SCAQMD will continue to track and report CO accumulated credits and account balances for informational purposes only. Both SOCAB and SSAB are considered in attainment for SO₂ and NO₂; however, SO_x and NO_x are precursors to pollutants for which both

³ As of July 26, 2013, SOCAB was redesignated as in attainment for the federal 24-hour PM₁₀ standard and U. S. EPA approved a PM₁₀ maintenance plan. SCAQMD will continue to track and report PM₁₀ accumulated credits and account balances for informational purposes only in the SOCAB and for equivalency in the SSAB (Coachella Valley).

SOCAB and SSAB are designated as in nonattainment⁴. The Mojave Desert Air Basin (MDAB) is currently classified as in moderate nonattainment for ozone precursors (*i.e.*, VOC and NO_x) and as in attainment for NO₂, SO₂, and CO. Federal law requires the use of Lowest Achievable Emission Rate (LAER) and offsets for emissions of nonattainment pollutants (or their precursors) for new, modified, and relocated stationary sources, when the source is considered a major stationary source⁵ for the nonattainment pollutants (or their precursors). This report demonstrates compliance with the federal NSR offsets requirements.

OVERVIEW OF ANALYSIS METHODOLOGY

The two most important elements of federal nonattainment NSR requirements are LAER and emission offsetting for major sources. As set forth in SCAQMD's *Best Available Control Technology (BACT) Guidelines*, SCAQMD's BACT requirements are at least as stringent as federal LAER for major sources. Furthermore, the NSR emission offset requirements that SCAQMD implements through its permitting process ensure that sources provide emission reduction credits (ERCs) to offset their emission increases in compliance with federal requirements. As a result, these sources each comply with federal offset requirements by providing their own ERCs. However, certain sources are exempt from SCAQMD's offset requirements pursuant to Rule 1304 or qualify for offsets from SCAQMD's Community Bank (applications received between October 1, 1990 and February 1, 1996 only) or Priority Reserve, both pursuant to Rule 1309.1. SCAQMD has determined that providing offset exemptions and the Priority Reserve (as well as the previously-administered Community Bank) is important to the NSR program and the local economy while encouraging installation of BACT. Therefore, SCAQMD has assumed the responsibility of providing the necessary offsets for exempt sources, the Priority Reserve, and the Community Bank. This report examines deposits to and withdrawals from SCAQMD's emission offset accounts during calendar year 2015 and demonstrates programmatic equivalence on an aggregate basis with federal emission offset requirements for the sources exempt from providing offsets and the sources that receive offsets from the Priority Reserve or the Community Bank.

⁴ SO_x is a precursor to PM₁₀ and NO_x is a precursor to both PM₁₀ and ozone.

⁵ The major source thresholds for SO_x, SSAB and MDAB, based on their attainment status during the calendar year 2007 through 2010 reporting periods are summarized below:

Pollutant	SOCAB	SSAB	MDAB
VOC	10 tons/year	25 tons/year	100 tons/year
NO _x	10 tons/year	25 tons/year	100 tons/year
SO _x	100 tons/year	100 tons/year	100 tons/year
PM ₁₀	70 tons/year	70 tons/year	100 tons/year
CO	50 tons/year	100 tons/year	100 tons/year

SCAQMD's Offset Accounts

For the purposes of this report, federal debit and credit accounting for SCAQMD's offset accounts was conducted pursuant to the same procedures previously agreed to by U.S. EPA and as delineated in Rule 1315 and described in the staff report. Each of the pollutants subject to offset requirements has its own federal offset account.

SCAQMD's NSR program is considered to provide equivalent or greater offsets of emissions as required by federal requirements for each subject pollutant provided the balance of offsets left in SCAQMD's federal offset account for each pollutant remains positive, indicating that there were adequate offsets available.

Debit Accounting

SCAQMD tracks all emission increases that are offset through the Priority Reserve or the Community Bank, as well as all increases that are exempt from offset requirements pursuant to Rule 1304 – Exemptions. These increases are all debited from SCAQMD's federal offset accounts when they occur at federal major sources. For federal equivalency demonstrations, SCAQMD uses an offset ratio of 1.2-to-1.0 for extreme non-attainment pollutants (ozone and ozone precursors, *i.e.*, VOC and NO_x) and uses 1.0-to-1.0 for all other non-attainment pollutants (non-ozone precursors, *i.e.*, SO_x, CO, and PM₁₀) to offset any such increases. That is, 1.2 pounds are deducted from SCAQMD's offset accounts for each pound of maximum allowable permitted potential to emit VOC or NO_x increase at a federal source and 1.0 pound is deducted for each pound of maximum allowable permitted potential to emit SO_x, CO, or PM₁₀ at a federal source. A more detailed description of federal debit accounting is provided in the Rule 1315 staff report and Rule 1315(c)(2).

Furthermore, to comply with U.S. EPA's NSR Reform requirements applicable to extreme non-attainment areas for ozone, the SCAQMD tracks changes to facility-wide limits under Rule 1304 – Exemptions, and debits any increases from the federal offset accounts accordingly.

Credit Accounting

When emissions from a permitted source are permanently reduced (*e.g.*, installation of control equipment, removal of the source) and the emission reduction is not required by rule or law and is not called for by an AQMP control measure that has been assigned a target implementation date⁶, the permit holder may apply for ERCs for the pollutants reduced. If the permit holder for the source generating the emission reduction had previously received offsets from SCAQMD or has a "positive NSR balance" (*i.e.*, pre-1990 net emission increase), the quantity of SCAQMD offsets used or the amount of the positive NSR balance is subtracted from the reduction and "paid back" to SCAQMD's accounts prior to issuance of an ERC pursuant to Rule 1306. In certain other cases, permit holders do not always submit applications to claim ERCs or do not qualify to

⁶ Refer to Rule 1309(b) for a complete explanation of eligibility requirements.

obtain ERCs for their equipment shutdowns or other eligible emission reductions. These unclaimed reductions are referred to as “orphan shutdowns” and are deposited in SCAQMD’s offset accounts. ERCs provided as offsets by major sources in excess of the applicable federally-required offset ratio and all ERCs provided as offsets by minor sources not subject to federal offset requirements are also deposited in SCAQMD’s federal offset accounts. A more detailed description of federal credit accounting is provided in Rule 1315(c)(3)(A) and its staff report.

DETERMINATION OF EQUIVALENCY WITH FEDERAL OFFSET REQUIREMENTS

The federal offset requirements FDE for calendar year 2015 and the projections for calendar years 2016 and 2017 are summarized in Tables 1 and 2, respectively. The detailed listing of actual final withdrawals, deposits and sum of withdrawals and deposits are shown in Tables A and B of Attachment I to this letter.

These account balances shown in Tables A and B reflect the tracking sequence described under Rule 1315(c)(5).

CALIFORNIA ENVIRONMENTAL QUALITY ACT NET EMISSION INCREASES

Pursuant to Rule 1315(g)(1), net emission increases of nonattainment air contaminants at major and minor facilities are based on the sum of increases and decreases in potential to emit at major and minor facilities pursuant to Rule 1304 – Exemptions or Rule 1309.1 – Priority Reserve.

Increases in potential to emit for major and minor sources include potential to emit increases from the Priority Reserve or Community Bank pursuant to Rule 1309.1 and exemptions from the offset requirements of Rule 1303 – Requirements pursuant to Rule 1304 – Exemptions.

Decreases to potential to emit for major and minor sources include, but are not limited to, potential to emit reductions as a result of orphan shutdowns and/or orphan reductions.

In addition, pursuant to Rule 1315(g)(2), projections of cumulative net emission increases at the end of the two subsequent reporting periods are based upon the average of the aggregate increase in potential to emit of each nonattainment air contaminant and the average of the aggregate emissions reductions of the same nonattainment air contaminant for the five reporting periods most recently included in a PDE or an FDE for each of the reporting periods commencing with the 2011 reporting period, whichever is fewer reporting periods. This calendar year 2015 FDE includes the fifth report of projections of cumulative net emission increases, and therefore the averages are based on the 2011, 2012, 2013, 2014 and 2015 increases in potential to emit and

emissions reductions. The purpose of Rule 1315(g) is to ensure that implementation of Rule 1315 does not cause emission increases beyond those analyzed in the CEQA document for Rule 1315.

Cumulative net emission increases and projected cumulative net emission increases must remain below the thresholds shown in Table B of Rule 1315 in order for the Executive Officer to be able to continue to issue permits to exempt sources pursuant to Rule 1304 or subject to Rule 1309.1 Priority Reserve.

CONCLUSIONS

The analysis presented in this report demonstrates the following:

- For calendar year 2015, SCAQMD's NSR program provides equivalent offsets to those required by federal NSR requirements and is equivalent to the federal requirements on an aggregate basis. This conclusion is based on the fact that the final ending offset account balances for this calendar year reporting period, as shown in Table 1, remained positive for all pollutants.
- SCAQMD's projected offset account balances for 2016 and 2017 are projected to remain positive. This means that the sum of the estimated deposits to and withdrawals from SCAQMD's offset accounts during 2016 and 2017 are projected to remain positive and, therefore, it demonstrates that SCAQMD's NSR program is equivalent to federal NSR requirements.
- From the date of adoption of Rule 1315 (February 4, 2011) to the end of calendar year 2015, both the cumulative net emission increase of each nonattainment air contaminant at major and minor facilities and the projected cumulative net emission increase for 2016 and 2017 remained below the thresholds identified in Table B of Rule 1315, and therefore the Executive Officer can continue to issue permits to construct and permits to operate that rely on further use of Rule 1304 exemptions or Rule 1309.1 Priority Reserve offsets to major and minor sources.

ATTACHMENTS

1. Detailed listing of actual debits, preliminary credits and sum of debits and credits
2. Board Meeting Presentation

ATTACHMENT 1

Detailed listing of actual debits, preliminary credits and sum of debits and credits

Table A
Total Actual Debits from SCAQMD's Federal Offset Accounts
(January 2015 through December 2015)

SCAQMD OFFSETS USED	VOC	NO_x	SO_x	CO	PM₁₀
Priority Reserve (lb/day)	-309	-658	0	0	0
Community Bank (lb/day)	0	0	0	0	0
Rule 1304 Exemptions (lb/day)	-290	-40	0	-1,710	-115
Sum Total of SCAQMD Offsets (lb/day)	-599	-698	0	-1,710	-115
1.2-to-1.0 Offset Ratio (lb/day)	-120	-140	N/A	N/A	N/A
Total Actual Debits to SCAQMD Account (lb/day)	-719	-838	0	-1,710	-115
Total Actual Debits to SCAQMD Account (tons/day)	-0.36	-0.42	0.00	-0.86	-0.06

Table B
Total Actual Credits to SCAQMD's Federal Offset Accounts
(January 2015 through December 2015)

CREDITS RECEIVED	VOC	NO_x	SO_x	CO	PM₁₀
Major Source Orphan Credits (lb/day)	311	676	168	2,180	46
Minor Source Orphan Credits (lb/day)	7,121	3,877	1,743	6,124	1,238
Total Orphan Credits (lb/day)	7,432	4,553	1,911	8,304	1,284
Adjustment to Actual Emissions ^a (lb/day)	-1,486	-911	-382	-1,661	-257
Discount of ERCs ^b (lb/day)	0	0	0	0	0
Creditable Minor Source ERC Use ^c (lb/day)	0	0	0	0	0
Creditable Major Source ERC Use (lb/day)	0	0	0	0	0
Total Actual Credits to SCAQMD Account (lb/day)	5,946	3,642	1,529	6,643	1,027
Total Actual Credits to SCAQMD Account (tons/day)	2.97	1.82	0.76	3.32	0.51

^a Adjustment of orphan shutdown and orphan reduction offset credits deposited in SCAQMD offset accounts to correct from potential emissions to actual emissions as discussed in Rule 1315(c)(3)(B)(i).

^b Prior to issuance of ERCs, they are discounted for NSR "Payback," which includes payback of NSR balance, Community Bank and Priority Reserve allocations, and offset exemptions, as discussed in Rule 1315(c)(3)(A)(v) and Rule 1306(c).

^c There is no creditable minor source ERC use for calendar year 2015.

Table C
Sum of Final Credits/Debits Activities in SCAQMD's Federal Offset
Accounts
(January 2015 through December 2015)

Description	VOC	NOx	SOx	CO	PM10
Total Actual Debits ^a (lb/day)	-719	-838	0	-1,710	-115
Total Actual Credits ^a (lb/day)	5,946	3,642	1,529	6,643	1,027
Sum of Actual Debits(-)/Credits(+)^a (lb/day)	5,227	2,804	1,529	4,933	912
Sum of Actual Debits(-)/Credits(+)^a (tons/day)	2.61	1.40	0.76	2.47	0.46

^a Debits are shown as negative and Credits as positive, while their sums are shown as negative or positive, as appropriate.



Status Report on Regulation XIII – New Source Review

Governing Board Meeting
September 1, 2017



NSR Status Report Overview

Purpose:

Demonstrate SCAQMD's NSR program meets federal NSR offset requirements for Major Sources, as required by EPA, that are exempt from offsets under SCAQMD's NSR rule



NSR Status Report History

- SCAQMD has produced Annual NSR Status Reports going back to 1990
- Around 2002-2004 EPA requested SCAQMD adopt a rule to memorialize equivalency demonstrations
- SCAQMD adopted Rule 1315 - Federal NSR Tracking System in 2006/2007 and adopted a revised Rule 1315 in February 2011
- EPA approved Rule 1315 into the SIP and it became effective on June 25, 2012



Rule 1315

Federal NSR Tracking System

- Rule 1315 established procedures to demonstrate equivalency with federal NSR offset requirements
 - Tracks debits from and credits to SCAQMD's federal internal offset account for each pollutant
 - Annual Preliminary Determination of Equivalency (PDE), Final Determination of Equivalency (FDE) and Projections
 - Balance of credits in SCAQMD's federal NSR offset account must remain positive
 - Cumulative Net Emission Increase must remain below Rule 1315(g) thresholds



SCAQMD's Federal NSR Offset Accounts

Final Determination of Equivalency (FDE)

(CY 2015)

DESCRIPTION	VOC	NOx	SOx	CO	PM10
2015 Final Ending Balance (tons/day)	98.89	26.13	3.39	12.33	14.59
2015 Total Credits (tons/day)	2.97	1.82	0.76	3.32	0.52
2015 Total Debits (tons/day)	-0.36	-0.42	0.00	-0.85	-0.06
2015 Total Discount of Credits for Surplus Adjustment (tons/day)	-0.03	-3.04	0.00	0.00	0.00
2015 Final Ending Balance (tons/day)	101.47	24.49	4.15	14.80	15.05



Cumulative Net Emission Increase February 4, 2011 – December 31, 2015

DESCRIPTION	VOC	NOx	SOx	CO	PM10
2014 Net Emission Increase (tons/day)	-12.82	-0.85	0.02	N/A	-0.28
2015 Increases in Potential to Emit (tons/day)	2.23	1.24	0.26	N/A	0.67
2015 Decreases in Potential to Emit (tons/day)	-3.72	-2.28	-0.96	N/A	-0.64
Cumulative Net Emission Increase (tons/day)	-14.31	-1.89	-0.68	N/A	-0.25
Rule 1315(g) Table B Threshold (tons/day)	6.30	0.53	0.14	N/A	0.90



SCAQMD's Projected Federal NSR Offset Accounts CY 2016

DESCRIPTION	VOC	NOx	SOx	CO	PM10
2015 Final Ending Balance (tons/day)	101.47	24.49	4.15	14.80	15.05
CY 2016 Total Projected Credits (tons/day)	4.86	1.16	0.29	1.99	0.62
CY 2016 Total Projected Debits (tons/day)	-0.37	-0.20	0.00	-2.08	-0.06
CY 2016 Total Projected Discount of Credits for Surplus Adjustment (tons/day)	-0.11	-1.16	0.00	-0.11	0.00
CY 2016 Projected Ending Balance (tons/day)	105.85	24.29	4.44	14.60	15.61

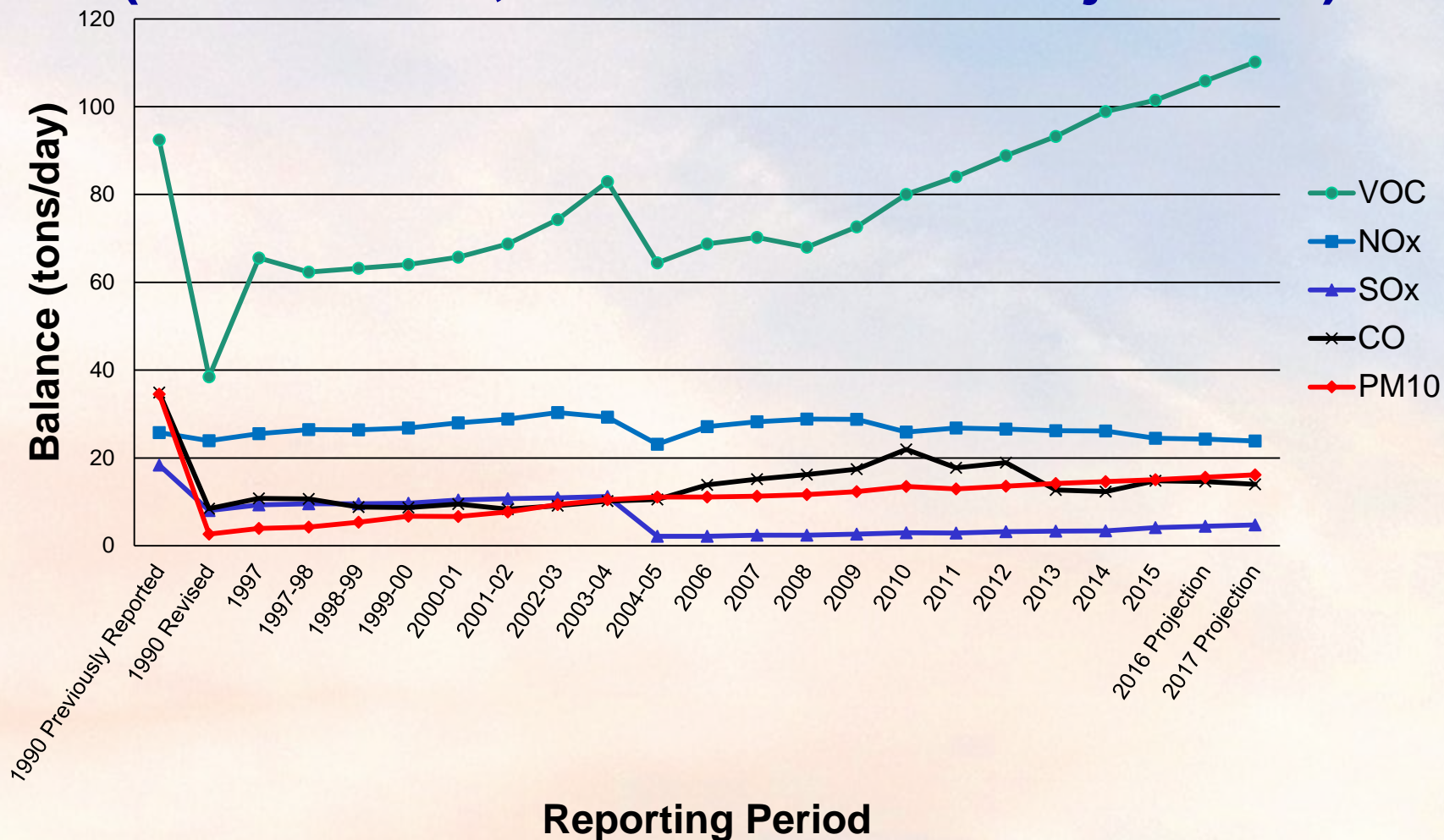


SCAQMD's Projected Federal NSR Offset Accounts CY 2017

DESCRIPTION	VOC	NOx	SOx	CO	PM10
CY 2016 Projected Ending Balance (tons/day)	105.85	24.29	4.44	14.60	15.61
CY 2017 Total Projected Credits (tons/day)	4.89	1.20	0.31	2.02	0.56
CY 2017 Total Projected Debits (tons/day)	-0.39	-0.22	0.00	-2.50	-0.02
CY 2017 Total Projected Discount of Credits for Surplus Adjustment (tons/day)	-0.14	-1.38	0.00	-0.12	0.00
CY 2017 Projected Ending Balance (tons/day)	110.19	23.89	4.75	14.00	16.15



SCAQMD's Federal Offset Account Balances (1990 – 2015, and 2016-2017 Projections)





Conclusions

- The Final Determination of Equivalency for CY 2015 shows SCAQMD's NSR program continued to be at least equivalent to the federal NSR offset requirements
- For CYs 2016 and 2017 it is also projected that SCAQMD's NSR program will continue to be at least equivalent to the federal NSR offset requirements
- The Cumulative Net Emission Increase for CY 2015 remained below the thresholds identified in Table B of Rule 1315(g)(4)
- Next Preliminary Determination of Equivalency for CY 2016 will be presented to the Governing Board in February 2018