

BOARD MEETING DATE: January 7, 2022

AGENDA NO. 12

REPORT: Rule and Control Measure Forecast

SYNOPSIS: This report highlights South Coast AQMD rulemaking activities and public hearings scheduled for 2022, and provides a summary of implementation of the 2016 AQMP in 2021.

COMMITTEE: No Committee Review

RECOMMENDED ACTION:
Receive and file.

Wayne Natri
Executive Officer

SLR:SN:IM:AK:ZS

2022 MASTER CALENDAR

The 2022 Master Calendar provides a list of proposed or proposed amended rules for each month, with a brief description, and a notation in the third column indicating if the rulemaking is for the 2016 AQMP, Toxics, AB 617 (for Best Available Retrofit Control Technology (BARCT) or measures identified in a Community Emission Reduction Plan (CERP)), or Other. Rulemaking efforts that are noted for implementation of the 2016 AQMP, Toxics, and AB 617 are either statutorily required and/or are needed to address a public health concern. Projected emission reductions will be determined during rulemaking.

Staff continues to move forward with rulemaking, recognizing stakeholders' resource limitations due to COVID-19. To maintain social distancing while integrating public participation in the rulemaking process, staff is connecting with stakeholders using tele- and videoconferencing. Also, staff has increased the review time for working group materials to allow stakeholders additional time to prepare for meetings.

The following symbols next to the rule number indicate if the rulemaking will be a potentially significant hearing, will reduce criteria pollutants, or is part of the RECLAIM transition. Symbols have been added to indicate the following:

- * *This rulemaking may have a substantial number of public comments.*
- + *This rulemaking will reduce criteria air contaminants and assist toward attainment of ambient air quality standards.*
- # *This rulemaking is part of the transition of RECLAIM to a command-and-control regulatory structure.*

The following table provides a list of changes since the previous Rule Forecast Report.

1135	Emissions of Oxides of Nitrogen from Electricity Generating Facilities
Proposed Amended Rule 1135 will be added to November 2022 to address provisions for diesel internal combustion engines used for electric generation at Santa Catalina Island.	
1147.2	NOx Reductions from Metal Melting and Heating Furnaces
Proposed Rule 1147.2 is being moved from March to April 2022 to allow staff to work with stakeholders.	
1147	NOx Reductions from Miscellaneous Sources
Proposed amendments to Rule 1147 scheduled for March 2022 is no longer needed since proposed amendments to remove equipment to be regulated under Proposed Rule 1147.2 will be addressed in the amendments to Rule 1147 scheduled for April 2022.	

2022 MASTER CALENDAR

Month	Title and Description	Type of Rulemaking
February		
1134	Emissions of Oxides of Nitrogen from Stationary Gas Turbines Proposed Amended Rule 1134 will clarify NOx limits for recuperative gas turbines, revise startup and shutdown requirements, and update provisions for Continuous Emissions Monitoring Systems. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP/ AB 617 BARCT
March		
1115	Motor Vehicle Assembly Line Coating Operations Proposed Rule 1115 will address U.S. EPA RACT requirements for motor vehicle assembly line coating operations. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
April		
429	Start-Up and Shutdown Exemption Provisions for Oxides of Nitrogen Proposed amendments to Rule 429 will update startup and shutdown provisions for a variety of combustion equipment regulated under source-specific rules. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
1147 ^{*+ #}	NOx Reductions from Miscellaneous Sources Proposed Amended Rule 1147 will revise NOx emission limits to reflect BARCT for miscellaneous combustion sources and will apply to RECLAIM, former RECLAIM facilities, and non-RECLAIM facilities. Other revisions are to improve clarity and reflect categories that will be addressed in other rules. <i>Michael Krause 909.396.2706; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP/ AB 617 BARCT
1147.2 ^{*+ #}	NOx Reductions from Metal Melting and Heating Furnaces Proposed Rule 1147.2 will establish NOx emission limits to reflect BARCT for metal melting and heating furnaces and will apply to RECLAIM, former RECLAIM, and non-RECLAIM facilities. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP/ AB 617 BARCT

* Potentially significant hearing

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Part of the transition of RECLAIM to a command-and-control regulatory structure

2022 MASTER CALENDAR (*Continued*)

Month	Title and Description	Type of Rulemaking
May		
Reg. III 318	Fees – General Amendments Fees for Cost Recovery for Emissions Analyses Proposed amendments to Regulation III will incorporate the Consumer Price Index adjustment to reflect inflation pursuant to Rule 320. Other proposed amendments may be needed to update and add fees associated with existing programs and implementation of new or revised programs. Proposed Rule 318 will establish fees to recover costs when the South Coast AQMD conducts specific emissions analyses such as source tests or ambient monitoring that are associated with a specific owner or operator of a facility. <i>Ian MacMillan 909.396.3244; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
403.2 403	Fugitive Dust from Large Roadway Projects Fugitive Dust Proposed Rule 403.2 will establish requirements to minimize PM emissions and require additional public notification for large roadway construction projects. Amendments to Rule 403 may be needed to ensure requirements for fugitive dust sources are not duplicative and to update existing requirements. The associated handbook may also be revised. <i>Ian MacMillan 909.396.3244; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
June	Title and Description	Type of Rulemaking
218.2 218.3	Enhanced Requirements for Continuous Emission Monitoring System Enhanced Requirements for Continuous Emission Monitoring System Performance Specifications Proposed Amended Rules 218.2 and 218.3 are needed to include provisions when monitoring mass emission limits using a Continuous Emissions Monitoring Systems for non-RECLAIM and former RECLAIM facilities. Other amendments may be needed for clarity or to remove obsolete provisions. <i>Michael Krause 909.396.2706; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other

* *Potentially significant hearing*

+ *Reduce criteria air contaminants and assist toward attainment of ambient air quality standards*

Part of the transition of RECLAIM to a command-and-control regulatory structure

2022 MASTER CALENDAR *(Continued)*

Month	Title and Description	Type of Rulemaking
August		
1148.2	Notification and Reporting Requirements for Oil and Gas Wells and Chemical Suppliers Proposed amendments to Rule 1148.2 may be needed to expand the applicability of well activities, improve notifications of well working activities, add additional monitoring provisions, and to address other issues. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other/ AB 617 CERP
1153.1	Emissions of Oxides of Nitrogen from Commercial Food Ovens Proposed amendments to Rule 1153.1 are needed to establish NOx BARCT limits for the RECLAIM transition. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP/ AB 617 BARCT
September		
1178	Further Reductions of VOC Emissions from Storage Tanks at Petroleum Facilities Proposed Amended Rule 1178 will incorporate the use of more advanced early leak detection methods and improve leak detection and repair programs for storage tanks to further reduce VOC emissions. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AB 617 CERP
1426.1	Control of Hexavalent Chromium Emissions from Metal Finishing Operations Proposed Rule 1426.1 will reduce hexavalent chromium emissions from heated chromium tanks used at facilities with metal finishing operations that are not subject to Rule 1469. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Toxics
1466.1	Control of Particulate Emissions from Demolition of Building Proposed Rule 1466.1 will establish requirements to minimize PM emissions during the demolition of buildings that housed equipment and processes with metal toxic air contaminants and pollution control equipment. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Toxics

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2022 MASTER CALENDAR (Continued)

Month	Title and Description	Type of Rulemaking
October		
1159.1	Control of NOx Emissions from Nitric Acid Tanks Proposed Rule 1159.1 will establish requirements to reduce NOx emissions from nitric acid units that will apply to RECLAIM, former RECLAIM, and non-RECLAIM facilities. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP/ AB 617 BARCT
2202*	On-Road Motor Vehicle Mitigation Options Proposed Amended Rule 2202 will streamline implementation for regulated entities, as well as reduce review and administration time for South Coast AQMD staff. Concepts may include program components to facilitate achieving average vehicle ridership targets. <i>Vicki White 909.396.3436; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
2306	New Intermodal Railyard Indirect Source Rule Proposed Rule 2306 will establish requirements for new intermodal railyards to minimize emissions from indirect sources associated with new railyards. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP/ AB 617 CERP
Regulation XX*#	RECLAIM Proposed Amended Regulation XX will address the transition of RECLAIM facilities to a command-and-control regulatory structure. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP
November	Title and Description	Type of Rulemaking
1135	Emissions of Oxides of Nitrogen from Electricity Generating Facilities Proposed Amended Rule 1135 will modify provisions for electricity generating units at Santa Catalina Island to reflect a revised BARCT assessment. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP/ AB 617 BARCT
1151	Motor Vehicle and Mobile Equipment Non-Assembly Line Coating Operations Proposed Amended Rule 1151 will provide clarifications of current requirements and amend provisions to address implementation issues. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706 Socio: Shah Dabirian 909.396.3076</i>	Other
1445*	Control of Toxic Emissions from Laser Arc Cutting Proposed Rule 1445 will establish requirements to reduce hexavalent chromium and other metal toxic air contaminant particulate emissions from laser arc cutting. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Toxics

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2022 MASTER CALENDAR (*Continued*)

Month	Title and Description	Type of Rulemaking
November (Continued)		
1460	Control of Particulate Emissions from Metal Cutting and Shredding Operations Proposed Rule 1460 will establish housekeeping and best management practices to minimize fugitive particulate emissions from metal cutting and shredding operations. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
Regulation XIII [#]	New Source Review Proposed Amended Regulation XIII will revise New Source Review provisions to address facilities that are transitioning from RECLAIM to a command-and-control regulatory structure and to address comments from U.S. EPA. Additional rules under Regulation XIII may be needed to address offsets and other provisions under Regulation XIII. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP
December	Title and Description	Type of Rulemaking
1146.2 [#]	Emissions of Oxides of Nitrogen from Large Water Heaters and Small Boilers and Process Heaters Proposed Amended Rule 1146.2 will update the NOx emission limits to reflect BARCT. Other provisions may be added to facilitate the deployment of zero-emission units regulated under the proposed amended rule. <i>Michael Krause 909.396.2706; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP/ AB 617 BARCT
1180.1	Fenceline and Community Monitoring Proposed Rule 1180.1 will establish fenceline and community monitoring requirements for non-petroleum refineries and facilities that are not currently included in Rule 1180 – Refinery Fenceline and Community Air Monitoring. <i>Michael Krause 909.396.2706; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
2304	Marine Port Indirect Source Rule Proposed Rule 2304 will reduce emissions from indirect sources related to marine ports and is included in the rule calendar as a placeholder in case a Memorandum of Understanding to reduce emissions cannot be reached with the Ports of Los Angeles and Long Beach. <i>Ian MacMillan; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP

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2022 To-Be-Determined

Rule Number	Title and Description	Type of Rulemaking
102	Definition of Terms Proposed amendments may be needed to update and add definitions, and potentially modify exemptions. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
103	Definition of Geographical Areas Proposed amendments are needed to update geographic areas to be consistent with state and federal references to those geographic areas. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
209	Transfer and Voiding of Permits Proposed amendments may be needed to clarify requirements for change of ownership and permits and the assessment of associated fees. <i>Michael Krause 909.396.2706; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
219	Equipment Not Requiring a Written Permit Pursuant to Regulation II Proposed Amendments may be needed to address issues raised by U.S. EPA for approval in the State Implementation Plan or to identify sources that are currently exempt from permitting. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
222	Filing Requirements for Specific Emission Sources Not Requiring a Written Permit Pursuant to Regulation II Proposed Amendments may be needed to require certain equipment that is currently not permitted to register the equipment to gather information and emissions data. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
223	Emission Reduction Permits for Large Confined Animal Facilities Proposed Amended Rule 223 will seek additional ammonia emission reductions from large confined animal facilities by lowering the applicability threshold. Proposed amendments will implement BCM-04 in the 2016 AQMP. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP
317	Clean Air Act Non-Attainment Fees Proposed amendments may be needed to modify CAA Section 185 fees for non-attainment. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other

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2022 To-Be-Determined (Continued)

2021	Title and Description	Type of Rulemaking
403.1	Supplemental Fugitive Dust Control Requirements for Coachella Valley Sources Proposed Amended Rule 403.1 would clarify existing requirements for dust control and remove outdated provisions contained in supporting documents for Rule 403.1. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
407 [#]	Liquid and Gaseous Air Contaminants Proposed Amended Rule 407 will update SOx emission limits to reflect Best Available Retrofit Control Technology, if needed, remove exemptions for RECLAIM facilities, and update monitoring, reporting, and recordkeeping requirements. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AB 617 BARCT
410	Odors from Transfer Stations and Material Recovery Facilities Proposed Amended Rule 410 will clarify existing provisions. Additional provisions may be needed to address activities associated with diversion of food waste to transfer stations or material recovery facilities. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
425	Odors from Cannabis Processing Proposed Rule 425 will establish requirements for control of odors from cannabis processing. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
430	Breakdown Provisions Amendments to Rule 430 will be needed to amended remove exemptions for facilities that exit the RECLAIM program and update references to CEMS rules. Other amendments may be needed to address current policies from U.S. EPA regarding startup, shutdown, and malfunction requirements. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	RECLAIM Other
431.1 [#]	Sulfur Content of Gaseous Fuels Proposed Amended Rule 431.1 will assess exemptions, including RECLAIM, and update other provisions, if needed. <i>Michael Krause 909.396.2706; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AB 617 BARCT/ AB 617 CERP
431.2 [#]	Sulfur Content of Liquid Fuels Proposed Amended Rule 431.2 will assess exemptions, including RECLAIM, and update other provisions, if needed. <i>Michael Krause 909.396.2706; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AB 617 BARCT/ AB 617 CERP

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2022 To-Be-Determined (*Continued*)

2022	Title and Description	Type of Rulemaking
431.3 [#]	Sulfur Content of Fossil Fuels Proposed Amended Rule 431.3 will assess exemptions, including RECLAIM, and update other provisions, if needed. <i>Michael Krause 909.396.2706; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AB 617 BARCT/ AB 617 CERP
442.1 1107 1124 1136 1145 1171	Usage of Solvent Coating of Metal Parts and Products Aerospace Assembly and Component Manufacturing Operations Wood Products Coatings Plastic, Rubber, Leather, and Glass Coatings Solvent Cleaning Operations Proposed amendments will prohibit the sale, distribution, and application of materials that do not meet the VOC limits specified in Regulation XI rules and possible provisions to prohibit circumvention of VOC limits. Other provisions may be needed to address exempt compounds. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
444	Open Burning Amendments may be needed to clarify existing provisions. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
445 [*]	Wood Burning Devices Proposed Amended Rule 445 will address additional U.S. EPA requirements for Best Available Control Measures and potentially address ozone contingency measure requirements for the Coachella Valley. Amendments may be needed to revise the penalty structure for violations on No Burn Days during the wood burning season. <i>Ian MacMillan 909.396.3244; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP
462	Organic Liquid Loading Proposed Amended Rule 462 will incorporate the use of advanced techniques to detect fugitive emissions and Facility Vapor Leak. Other amendments may be needed to streamline implementation and add clarity. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
463	Organic Liquid Storage Proposed Amended Rule 463 will address the current test method and improve the effectiveness, enforceability, and clarity of the rule. Proposed amendments may also be needed to ensure consistency with Rule 1178. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other

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2022 To-Be-Determined (Continued)

2022	Title and Description	Type of Rulemaking
468 [#]	Sulfur Recovery Units Proposed Amended Rule 468 will update SOx emission limits to reflect Best Available Retrofit Control Technology, if needed, remove exemptions for RECLAIM facilities, and update monitoring, reporting, and recordkeeping requirements. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AB 617 BARCT
469 [#]	Sulfuric Acid Units Proposed Amended Rule 469 will update SOx emission limits to reflect Best Available Retrofit Control Technology, if needed, remove exemptions for RECLAIM facilities, and update monitoring, reporting, and recordkeeping requirements. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AB 617 BARCT
1100	Implementation Schedule for NOx Facilities Proposed Amended Rule 1100 will establish the implementation schedule for Rule 1147 equipment at NOx RECLAIM and former NOx RECLAIM facilities. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	
1101 [#]	Secondary Lead Smelters/Sulfur Oxides Proposed Amended Rule 1101 will update SOx emission limits to reflect Best Available Retrofit Control Technology, if needed, remove exemptions for RECLAIM facilities, and update monitoring, reporting, and recordkeeping requirements. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AB 617 BARCT
1105 [#]	Fluid Catalytic Cracking Units Sox Proposed Amended Rule 1105 will update SOx emission limits to reflect Best Available Retrofit Control Technology, if needed, remove exemptions for RECLAIM facilities, and update monitoring, reporting, and recordkeeping requirements. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AB 617 BARCT/ AB 617 CERP
1110.2* ⁺⁺	Emissions from Gaseous- and Liquid-Fueled Engines Proposed amendments will address use of emergency standby engines at essential public services for Public Safety Power Shutoff programs. Proposed amendments may also be needed to incorporate possible comments by U.S. EPA for approval into the SIP and address monitoring provisions for new engines. <i>Michael Krause 909.396.2706; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP/ AB 617 BARCT
1111.1	Zero-Emission Residential Furnaces Proposed Rule 1111.1 may include provisions to encourage zero emission residential furnaces that goes beyond Rule 1111 for gas-fired furnaces. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP

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2022 To-Be-Determined (*Continued*)

2021	Title and Description	Type of Rulemaking
1113	Architectural Coatings Proposed amendments may be needed address delisted compounds and other amendments to improve clarity and to remove obsolete provisions. <i>Michael Krause 909.396.2706; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
1118*	Control of Emissions from Refinery Flares Proposed Amended Rule 1118 will incorporate revisions to further reduce flaring at refineries, provisions for clean service flares, and facility thresholds. Other amendments to improve clarity and to remove obsolete provisions. <i>Michael Krause 909.396.2706; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP/ AB 617 CERP
1119 [#]	Petroleum Coke Calcining Operations – Oxides of Sulfur Proposed Amended Rule 1119 will update SOx emission limits to reflect Best Available Retrofit Control Technology, if needed, remove exemptions for RECLAIM facilities, and update monitoring, reporting, and recordkeeping requirements. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AB 617 BARCT/ AB 617 CERP
1121*	Control of Nitrogen Oxides from Residential Type, Natural-Gas-Fired Water Heaters Proposed amendments may be needed further reduce NOx emissions from water heaters. <i>Michael Krause 909.396.2706; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP
1121.1	Zero Emission Residential Water Heaters Proposed Rule 1121.1 may include provisions to encourage zero emission water heaters that goes beyond Rule 1121 for gas-fired water heaters. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP
1133.3	Emission Reductions from Greenwaste Composting Operations Proposed Amended Rule 1133.3 will seek additional VOCs and ammonia emission reductions from greenwaste and foodwaste composting. Proposed amendments will implement BCM-10 in the 2016 AQMP. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP
1138	Control of Emissions from Restaurant Operations Proposed Amended Rule 1138 will further reduce emissions from char boilers. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP

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2022 To-Be-Determined (*Continued*)

2021	Title and Description	Type of Rulemaking
1142	Marine Tank Vessel Operations Proposed Amended Rule 1142 will address VOC and hydrogen sulfide emissions from marine tank vessel operations, applicability, noticing requirements, and provide clarifications. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
1146	Emissions of Oxides of Nitrogen from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters Proposed amendments to Rule 1146 may be needed to incorporate comments from U.S. EPA. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
1146.1 [#]	Emissions of Oxides of Nitrogen from Small Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters Proposed amendments to Rule 1146.1 may be needed to clarify provisions for industry-specific categories and to incorporate comments from U.S. EPA. <i>Michael Krause 909.396.2706; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
1148.1*	Oil and Gas Production Wells Proposed Amendments to Rule 1148.1 may be needed to further reduce emissions from operations, implement early leak detection, odor minimization plans, and enhanced emissions and chemical reporting from oil and drilling sites. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other/ AB 617 CERP
1165	Control of Emissions from Incinerators Proposed Rule 1165 will establish emission standards, source testing, and monitoring, recordkeeping, and reporting requirements for incinerators. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP
1166	Volatile Organic Compound Emissions from Decontamination of Soil Proposed Amended Rule 1166 will update requirements, specifically concerning notifications and usage of mitigation plans (site specific versus various locations). <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
1168	Adhesive and Sealant Applications Amendments to Rule 1168 may be needed to address VOC limits for certain applications. Other amendments may also be needed. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other

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2022 To-Be-Determined (Continued)

2021	Title and Description	Type of Rulemaking
1171	Solvent Cleaning Operations Proposed Amendments to Rule 1171 may be needed to address certain exempt chemicals and compliance issues. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706 Socio: Shah Dabirian 909.396.3076</i>	Other
1173	Control of Volatile Organic Compound Leaks and Releases from Components at Petroleum Facilities and Chemical Plants Proposed Amended Rule 1173 will further reduce emissions from petroleum and chemical plants by requiring early leak detection approaches. <i>Michael Krause 909.396.2706; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other/ AB 617 CERP
1176	VOC Emissions from Wastewater Systems Proposed Amended Rule 1176 will clarify the applicability of the rule to include bulk terminals under definition of “Industrial Facilities,” and streamline and clarify provisions. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other/ AB 617 CERP
1180	Refinery Fenceline and Community Air Monitoring Amendments to Rule 1180 may be needed to provide additional clarity and if Proposed Rule 1180.1 is adopted, provisions may be needed to provide additional clarity. <i>Michael Krause 909.396.2706; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
1403*	Asbestos Emissions from Demolition/Renovation Activities Proposed Amended Rule 1403 will enhance implementation, improve rule enforceability, update provisions, notifications, exemptions, and align provisions with the applicable U.S. EPA National Emission Standard for Hazardous Air Pollutants (NESHAP) and other state and local requirements as necessary. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Toxics
1404	Hexavalent Chromium Emissions from Cooling Towers Amendments may be needed to provide additional clarifications regarding use of process water that is associated with sources that have the potential to contain chromium in cooling towers and address VOC emissions. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Toxics AQMP
1405	Control of Ethylene Oxide and Chlorofluorocarbon Emissions from Sterilization or Fumigation Processes Amendments may be needed to address ethylene oxide emissions from sterilization of medical equipment. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Toxics

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2022 To-Be-Determined (*Continued*)

2021	Title and Description	Type of Rulemaking
1415 1415.1	Reduction of Refrigerant Emissions from Stationary Air Conditioning Systems, and Reduction of Refrigerant Emissions from Stationary Refrigeration Systems Proposed Amended Rules 1415 and 1415.1 will align requirements with the proposed CARB Refrigerant Management Program and U.S. EPA's Significant New Alternatives Policy Rule provisions relative to prohibitions on specific hydrofluorocarbons. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Other
1420	Emissions Standard for Lead Proposed Amended Rule 1420 will update requirements to address arsenic emissions to close a regulatory gap between Rule 1420 and Rule 1407 - Control of Emissions of Arsenic, Cadmium, and Nickel from Non-Ferrous Metal Melting Operations. Other provisions may be needed to address storage and handling requirements, and revise closure requirements. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Toxics
1420.1	Emission Standards for Lead and Other Toxic Air Contaminants from Large Lead-Acid Battery Recycling Facilities Proposed Amendments are needed to update applicable test methods and provide clarifications regarding submittal of a source-test protocol. Additional amendments may be needed to address monitoring and post closure requirements. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Toxics
1420.2	Emission Standards for Lead from Metal Melting Facilities Proposed Amended Rule 1420.2 will update requirements to address arsenic emissions to close a regulatory gap between Rule 1420 and Rule 1407 - Control of Emissions of Arsenic, Cadmium, and Nickel from Non-Ferrous Metal Melting Operations. Additional amendments may be needed to address monitoring and post closure requirements. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Toxics
1435*	Control of Emissions from Metal Heat Treating Processes Proposed Rule 1435 will establish requirements to reduce point source and fugitive toxic air contaminants including hexavalent chromium emissions from heat treating processes. Proposed Rule 1435 will also include monitoring, reporting, and recordkeeping requirements. <i>Michael Krause 909.396.2706; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Toxics/ AB 617 CERP

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2022 To-Be-Determined (Continued)

2022	Title and Description	Type of Rulemaking
1450*	Control of Methylene Chloride Emissions Proposed Rule 1450 will reduce methylene chloride emissions from furniture stripping and establish monitoring, reporting, and recordkeeping requirements. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Toxics
1455	Control of Hexavalent Chromium Emissions from Torch Cutting and Welding Proposed Rule 1455 will establish requirements to reduce hexavalent chromium emissions from torch cutting and welding of chromium alloys. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Toxics
1469	Hexavalent Chromium Emissions from Chromium Electroplating and Chromic Acid Anodizing Operations Amendments to Rule 1469 may be needed to address potential changes with the CARB's Hexavalent Chromium Airborne Toxic Control Measure for Chrome Plating and Chromic Acid Anodizing Operations. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Toxics
1470	Requirements for Stationary Diesel-Fueled Internal Combustion and Other Compression Ignition Engines Proposed Amended Rule 1470 will include provisions to further reduce diesel particulate emissions from stationary diesel-fueled internal combustion engines. <i>TBD; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Toxics
1472	Requirements for Facilities with Multiple Stationary Emergency Standby Diesel-Fueled Internal Combustion Engines Proposed Amended Rule 1472 will remove provisions that are no longer applicable, update and streamline provisions to reflect the 2015 Health Risk Assessment Guidelines and assess the need for a Compliance Plans. <i>Michael Morris 909.396.3282; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Toxics
1480	Toxics Monitoring Proposed amendments to Rule 1480 may be needed to remove fee provisions if they are incorporated in Regulation III. <i>Michael Krause 909.396.2706; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	Toxics/ AB 617 CERP

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2022 To-Be-Determined (*Continued*)

2021	Title and Description	Type of Rulemaking
2306.1	Existing Intermodal Railyard Indirect Source Rule Proposed Rule 2306.1 will establish requirements for existing intermodal railyards to minimize emissions from indirect sources associated with these facilities. <i>Ian MacMillan 909.396.3244; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP/ AB 617 CERP
Regulation XXIII ⁺	Facility-Based Mobile Sources Proposed rules within Regulation XXIII would reduce emissions from indirect sources (e.g., mobile sources that visit facilities). <i>Ian MacMillan 909.396.3244; CEQA: Michael Krause 909.396.2706; Socio: Shah Dabirian 909.396.3076</i>	AQMP/ Toxics/ AB 617 CERP
Regulation II, III, IV, XIV, XI, XIX, XXIII, XXIV, XXX and XXXV	Various rule amendments may be needed to meet the requirements of state and federal laws, implement OEHHA's 2015 revised risk assessment guidance, changes from OEHHA to new or revised toxic air contaminants or their risk values, address variance issues, emission limits, technology-forcing emission limits, conflicts with other agency requirements, to abate a substantial endangerment to public health, additional reductions to meet SIP short-term measure commitments, to address issues raised by U.S. EPA or CARB for the SIP, compliance issues that are raised by the Hearing Board, or regulatory amendments needed as a result of the COVID-19 pandemic. Amendments to existing rules may be needed to address use of materials that contain chemicals of concern. The associated rule development or amendments include, but are not limited to, South Coast AQMD existing, or new rules to implement the 2012 or 2016 AQMP measures, and if adopted, 2022 AQMP measures. This includes measures in the 2016 AQMP to reduce toxic air contaminants or reduce exposure to air toxics from stationary, mobile, and area sources. Rule adoption or amendments may include updates to provide consistency with CARB Statewide Air Toxic Control Measures, or U.S. EPA's National Emission Standards for Hazardous Air Pollutants. Rule adoption or amendments may be needed to implement AB 617 including but not limited to BARCT rules, Community Emission Reduction Plans prepared pursuant to AB 617, or new or amended rules to abate a public health issue identified through emissions testing or ambient monitoring.	Other/ AQMP/ Toxics/ AB 617 BARCT/ AB 617 CERP

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The following is a summary of implementation of the 2016 AQMP in 2021.

Summary of 2016 AQMP Implementation

The 2016 AQMP was adopted in March 2017 and approved by CARB the same month. The 2016 AQMP included a comprehensive control strategy with specific control measures to attain upcoming ozone and PM_{2.5} National Ambient Air Quality Standards.

Staff continued working on fulfilling the Board directive for the 2016 AQMP and Control Measure CMB-05 to require facilities in the RECLAIM Program to implement BARCT. Adoption of these amendments are also needed to meet the requirements of AB 617. From 2018 to 2021, a total of twelve rules (Rules 1109.1, 1110.2, 1117, 1118.1, 1134, 1135, 1146, 1146.1, 1146.2, 1147.1, 1150.3, and 1179.1) were adopted/amended as part of the BARCT implementation. With the exception of Rule 1109.1, the total emission reductions resulting from these rules are about 5.9 tpd which are anticipated to be achieved by 2024 (reductions from Rule 1118.1 are allocated to CMB-03). Implementation of Rule 1109.1, adopted by the Board on November 5, 2021, is estimated to reduce NO_x emissions by approximately 7.7 to 7.9 tpd upon final implementation, with 3.7 to 3.8 tpd expected by 2023. Four additional rules (Rules 1147, 1147.2, 1153.1, and 1159.1) are currently under development and are scheduled for Board consideration for amendment or adoption in calendar year 2022. Table 1 provides a complete list of rules that have been adopted as part of the 2016 AQMP implementation.

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Table 1
2016 AQMP Emission Reductions (tons per day) by Measure/Adoption Date

Control Measure #	Control Measure Title	Adoption Date	AQMP Commitment		Reduction in Approved Measure	
			2023	2031	2023	2031
VOC EMISSIONS*						
CTS-01	Further Emission Reductions from Coatings, Solvents, Adhesives, and Sealants [R1168]	2017	1.0	2.0	1.4	--
FUG-01	Improved Leak Detection and Repair	--	2.0	2.0	--	--
CMB-01	Transition to Zero and Near-Zero Emission Technologies for Stationary Sources	--	1.2	2.8	--	--
CMB-03	Emission Reductions from Non-Refinery Flares [R1118.1]	2018	0.4	0.4	0.014	--
ECC-02	Co-Benefits from Existing Residential and Commercial Building Energy Efficiency Measures	2018	0.07	0.3	0.07	--
ECC-03	Additional Enhancements in Reducing Existing Residential Building Energy Use	--	0.2	0.3	--	--
BCM-10	Emission Reductions from Greenwaste Composting	--	1.5	1.8	--	--
MSC-02	Application of All Feasible Measures	TBD	TBD	TBD	0.88**	
TOTAL VOC REDUCTIONS			6.4	9.6	2.4	--

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Table 1 (Continued)
2016 AQMP Emission Reductions (tons per day) by Measure/Adoption Date

Control Measure #	CONTROL MEASURE TITLE	Adoption Date	AQMP Commitment		Reduction in Approved Measure	
			2023	2031	2023	2031
PM2.5 EMISSIONS						
BCM-01	Further Emission Reductions from Commercial Cooking	--	0.0	3.3	--	--
BCM-04	Emission Reductions from Manure Management Strategies [NH3]	--	0.26	0.2	--	--
BCM-10	Emission Reductions from Greenwaste Composting [NH3]	--	0.1	0.1	--	--
TOTAL PM2.5 REDUCTIONS			TBD	3.3	--	--
Control Measure #	CONTROL MEASURE TITLE	Adoption Date	AQMP Commitment		Reduction in Approved Measure	
			2023	2031	2023	2031
NOx EMISSIONS*						
CMB-01	Transition to Zero and Near-Zero Emission Technologies for Stationary Sources	--	2.5	6.0	--	--
CMB-02	Emission Reductions from Replacement with Zero or Near-Zero NOx Appliances in Commercial and Residential Applications [R1111]	2018	1.1	2.8	0.01	--
CMB-03	Emission Reductions from Non-Refinery Flares [R1118.1]	2018	1.4	1.5	0.2	--
CMB-04	Emission Reductions from Restaurant Burners and Residential Cooking	--	0.8	1.6	--	--
CMB-05	Further NOx Reductions from RECLAIM Assessment	2018-2021	0.0	5.0	9.4***	11.7***

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Table 1 (Continued)
2016 AQMP Emission Reductions (tons per day) by Measure/Adoption Date

Control Measure #	CONTROL MEASURE TITLE	Adoption Date	AQMP Commitment		Reduction in Approved Measure	
			2023	2031	2023	2031
NOx EMISSIONS (CONTINUED)						
ECC-02	Co-Benefits from Existing Residential and Commercial Building Energy Efficiency Measures	2018	0.3	1.1	0.3****	--
ECC-03	Additional Enhancements in Reducing Existing Residential Building Energy Use	--	1.2	2.1	--	--
MOB-03	Emission Reductions at Warehouse Distribution Centers	2021	TBD	TBD	0.7 to 1.5*****	1.5 to 3.0*****
MOB-04	Emission Reductions at Commercial Airports	2019	TBD	TBD	0.5	0.37
MOB-10	Extension of the SOON Provision for Construction/Industrial Equipment	Ongoing	1.9	1.9	*****	TBD
MOB-11	Extended Exchange Program	Ongoing	2.9	1.0	<0.1	TBD
MOB-14	Emission Reductions from Incentive Programs	Ongoing	11	7.8	11.2	TBD
TOTAL NOx REDUCTIONS			23.1	31.0	22.3 to 23.1	13.6 to 15.1

* SIP commitments in the 2016 AQMP for VOC and NO_x use a summer planning inventory, whereas expected emission reductions shown in this table are based on annual average inventories estimated during development of specific rules/measures. Annual average inventories for VOC and NO_x are generally lower than summer planning inventories, hence this table shows conservatively low emission reductions relative to SIP commitments.

** Includes emission reductions from Rule 1113 amendment adopted in February 2016, which was not reflected in the 2016 AQMP emission inventory.

*** Reflects emission reductions from Rules 1109.1, 1110.2, 1117, 1134, 1135, 1146 series, 1147.1, 1150.3, and 1179.1 (adopted from 2018 to 2021, with partial reductions of 3.7

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tpd and 5.8 tpd by 2023 and 2031, respectively for Rule 1109.1). The specific emission reductions by 2023/2031 vary depending on the implementation schedule of each rule.

There may be partial overlap between the emission reductions shown and those achieved from the RECLAIM shave as described in the 2015 amendment of Rule 2002. In addition, part of these emission reductions resulting from non-RECLAIM facilities satisfy commitments for CMB-01 and CMB- 02.

**** A linear extrapolation was used to estimate emission reductions from ECC-02 which are co- benefits from the adoption of State policies, such as SB350 and Title 24.

***** SIP credit subject to EPA's approval.

***** Estimated reductions for MOB-10 included in MOB-14.

South Coast AQMD has also taken several actions to implement the facility-based mobile source measures in the 2016 AQMP to achieve further reductions from mobile sources. On May 4, 2018, the Board directed staff to pursue both regulatory and voluntary approaches for some of the Basin's largest indirect sources: marine ports, commercial airports, warehouses/distribution centers, railyards, and new and re-development. MOUs with commercial airports were adopted at the December 6, 2019 Board meeting, with a projected NO_x emission reduction of 0.52 and 0.37 tpd in 2023 and 2031, respectively. Rule 2305 (Warehouse Indirect Source Rule) was adopted in May 2021 to reduce NO_x and diesel emissions associated with warehousing activities, with estimated NO_x reductions of 1.5 to 3 tpd by 2031. In August 2021, the Board directed staff to pursue a MOU with the Ports of Los Angeles and Long Beach for another four months, begin internal research on port Indirect Source Rule (ISR) concepts in December 2021 if a draft MOU (or draft MOUs) is/are not ready for full execution by all parties, and pivot fully to developing an ISR in February 2022 if an MOU or MOUs is/are not fully executed. Rulemaking is also currently under way for new rail yards.

A key element of the 2016 AQMP is to make private and public funding available to help further the development and deployment of advanced cleaner technologies such as zero emission and near-zero emission technologies, and also achieve co-benefits from existing programs (e.g., climate and energy efficiency). On January 4, 2019, Board awarded funding to 27 emission reduction incentive projects, totaling over \$47 million (with funding from several South Coast AQMD mitigation and penalty funds) to support the 2016 AQMP goals. Of the 27 projects, 16 would implement commercially available zero or near-zero control technologies or support infrastructure for implementation of cleaner fuels. These projects are anticipated to result in approximately 88 tons per year of NO_x and 2 tons per year of PM_{2.5} emissions reductions in the Basin, with the majority of the projects implemented in environmental justice communities. Additionally, 11 stationary and mobile source technology

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demonstration projects were also included in this funding program. Upon successful demonstration and deployment, these projects have the potential to provide additional long-term NO_x and VOC emission reductions. The awarded projects are consistent with the commitments in various 2016 AQMP control measures including MOB-14, CMB-02, CMB-04, and ECC-03. To estimate the benefits of zero and near-zero emission technology in the residential and commercial sectors, staff has developed an emissions tool to estimate changes in criteria and GHG emissions and costs associated with upgrades in residential and commercial appliances. The Net Emissions Analysis Tool (NEAT), has been developed to assist in implementing control measures CMB-02 and ECC-03, which seek emission reductions with zero and near-zero NO_x appliances in commercial and residential applications, and integrate energy efficiency enhancements with criteria pollutants (e.g., NO_x) and greenhouse gas emission reduction co-benefits.

In addition, South Coast AQMD continues the implementation of ongoing mobile source programs such as Surplus Off-Road Opt-In for NO_x (SOON), the extended exchange program, and incentive programs (e.g., Carl Moyer) specified in the 2016 AQMP control measures MOB-10 (Extension of the SOON Provision for Construction/Industrial Equipment), MOB-11 (Extended Exchange Program), and MOB-14 (Emission Reductions from Incentive Programs). The Mobile Source Incentive Programs listed in Table 2 includes the number of affected mobile source equipment and emission reductions in tons per year (tpy) for projects approved in year 2021.

TABLE 2
Estimated Emission Reductions Benefits From 2021 Incentive Programs

Program	# of Engines / Equipment / INF Stations	Estimated Emission Reductions NO_x (TPY)	Estimated Emission Reductions PM (TPY)	Award Amount
Carl Moyer	163	231.9	4.1	\$39,664,068
AB 617 CAPP Incentives	239	123.5	6.0	\$37,762,509
Lower-Emission School Bus	178	34.1	4.8	\$46,983,000
FARMER Program	2	5.8	0.3	\$711,736
Volkswagen Mitigation	107 (First Come First Serve)	--*		\$8,974,476
	38 (Competitive)	12.2	--**	\$2,361,126
VIP	30	19.6	0.1	\$1,300,000
Prop 1B	307	101.8	0	\$32,825,000
Replace your Ride	865	2.5	0.1	\$7,014,500
TOTAL		531.4	15.4	\$177,596,415

*Emission reduction values pending evaluation from this FCFS solicitation.

**Only NO_x reduction is required for VW Program.

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