

BOARD MEETING DATE: January 6, 2023

AGENDA NO. 11

REPORT: Rule and Control Measure Forecast

SYNOPSIS: This report highlights South Coast AQMD rulemaking activities and public hearings scheduled for 2023.

COMMITTEE: No Committee Review

RECOMMENDED ACTION:
Receive and file.

Wayne Nastri
Executive Officer

SLR:MK:IM:AK:ZS

2023 MASTER CALENDAR

The 2023 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 an AQMP, either the 2016 AQMP or 2022 AQMP, when adopted, Toxics, AB 617 (for BARCT) or measures identified in an AB 617 Community Emission Reduction Plan (CERP), SIP to address comments or actions from U.S. EPA for a rule that is in an approved SIP, or Other. Rulemaking efforts that are noted for implementation of the 2016 AQMP or 2022 AQMP when adopted, 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. In 2023, there will be opportunities for in-person meetings as social distancing requirements are being lifted. Staff intends to continue to provide tele- and videoconferencing options where feasible to maximize public participation.

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.*

2023 MASTER CALENDAR

Month	Title and Description	Type of Rulemaking
February		
1148.2	<p>Notification and Reporting Requirements for Oil and Gas Wells and Chemical Suppliers</p> <p>Proposed Amended Rule 1148.2 will evaluate the applicability of well activities, improve notifications of well working activities, and address other issues.</p> <p><i>Michael Morris 909.396.3282; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AB 617 CERP
March		
219	<p>Equipment Not Requiring a Written Permit Pursuant to Regulation II</p>	SIP/ Other
222	<p>Filing Requirements for Specific Emission Sources Not Requiring a Written Permit Pursuant to Regulation II</p> <p>Proposed Amended Rule 219 will be updated to address comments from U.S. EPA and stakeholders about equipment exempt from permitting requirements, and include other revisions such as exceptions and recordkeeping requirements. Amendments to Rule 222 will be proposed in tandem to align with the proposed changes in Rule 219 and may include other editorial revisions.</p> <p><i>Kalam Cheung 909.396.3281; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	
1401.1	<p>Requirements for New and Relocated Facilities Near Schools</p> <p>Proposed Amended Rule 1401.1 will update the definition of school to incorporate early learning and developmental centers, including those for pre-kindergarten children, providing consistency with recently adopted and amended air toxics rules.</p> <p><i>Kalam Cheung 909.396.3281; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics
2306 ^{*+}	<p>New Intermodal Railyard Indirect Source Rule</p> <p>Proposed Rule 2306 will establish requirements for new intermodal railyards to minimize emissions from indirect sources associated with new railyards.</p> <p><i>Elaine Shen 909.396.2715; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP/ AB 617 CERP

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

2023 MASTER CALENDAR (Continued)

Month	Title and Description	Type of Rulemaking
April		
1110.3+ 1110.2	Emissions from Linear Generators Emissions from Gaseous - and Liquid-Fueled Engines Proposed Rule 1110.3 will establish emission standards and requirements for the linear generators. Rule 1110.2 will need to be amended to remove existing provisions for linear generators. <i>Michael Morris 909.396.3282; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	Other
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 along with potential control technologies to further reduce VOC emissions. <i>Michael Morris 909.396.3282; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	AQMP/ AB 617 CERP/ AB 617 BARCT
May	Title and Description	Type of Rulemaking
Reg III including 304 304.1 304.2	Fee Rules Equipment, Materials, and Ambient Air Analyses Analyses Fees Fees for Operations Supportive of Emissions Analyses Regulation III will incorporate the CPI adjustments to keep pace with inflation, pursuant to Rule 320, and proposed amendments may also include any other needed adjustments. Proposed Amended Regulation III will update annual emission fees, will seek to recover costs incurred by South Coast AQMD from operators responsible for large incidents requiring South Coast AQMD response, and other fees to ensure cost recovery. <i>Kalam Cheung 909.396.3281; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	Other

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2023 MASTER CALENDAR (Continued)

Month	Title and Description	Type of Rulemaking
May (Continued)		
1135 ⁺	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP/ AB 617 BARCT
1153.1 [#]	<p>Emissions of Oxides of Nitrogen from Commercial Food Ovens Proposed Amended Rule 1153.1 will establish NOx BARCT limits and expand the applicability to RECLAIM and former RECLAIM facilities. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP/ AB 617 BARCT
June	Title and Description	Type of Rulemaking
1405 [*]	<p>Control of Ethylene Oxide and Chlorofluorocarbon Emissions from Sterilization or Fumigation Processes Amendments needed to address ethylene oxide emissions from sterilization of medical equipment. <i>Kalam Cheung 909.396.3281; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics
Regulation XIII [#]	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP

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2023 MASTER CALENDAR (Continued)

Month	Title and Description	Type of Rulemaking
August		
1159.1 [#]	Control of NO_x Emissions from Nitric Acid Tanks Proposed Rule 1159.1 will establish requirements to reduce NO _x emissions from nitric acid units that will apply to RECLAIM, former RECLAIM, and non-RECLAIM facilities. <i>Kalam Cheung 909.396.3281; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	AQMP/ AB 617 BARCT
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>Kalam Cheung 909.396.3281; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	Toxics
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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	Other
Regulation XX ^{*#}	RECLAIM Proposed Amended Regulation XX will address the transition of NO _x RECLAIM facilities to a command-and-control regulatory structure. <i>Michael Morris 909.396.3282; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	AQMP
September		
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>Michael Morris 909.396.3282; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	Other
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 NO _x 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>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	AQMP/ AB 617 BARCT

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2023 MASTER CALENDAR (Continued)

Month	Title and Description	Type of Rulemaking
September (Continued)		
2304* ⁺	Marine Port Indirect Source Rule Proposed Rule 2304 will establish requirements to reduce emissions from indirect sources related to marine ports. <i>Elaine Shen 909.396.2715; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	AQMP/ AB 617 CERP
October		
317	Clean Air Act Non-Attainment Fees Proposed amendments may be needed to modify CAA Section 185 fees for non-attainment. <i>TBD; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</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 Morris 909.396.3282; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	AQMP/ AB 617 CERP
1180	Refinery Fenceline and Community Air Monitoring Rule 1180 will be amended to consider expanding the target list of compounds to include compounds identified in the OEHHA’s updated priority list published in 2019. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	Other
1180.1	Non-Refinery 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>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	Other

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2023 MASTER CALENDAR (Continued)

Month	Title and Description	Type of Rulemaking
November		
1118 ^{*+}	Control of Emissions from Refinery Flares Proposed Amended Rule 1118 will seek to incorporate provisions to further reduce flaring at refineries, for clean service flares, and facility thresholds. Other amendments to improve clarity and to remove obsolete provisions. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	AQMP/ AB 617 CERP
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>Michael Morris 909.396.3282; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	Other/ AB 617 CERP
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>Kalam Cheung 909.396.3281; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	Toxics/ AB 617 CERP
December		
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>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	Other/ AB 617 CERP
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>Kalam Cheung 909.396.3281; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	Toxics
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>Elaine Shen 909.396.2715; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i>	AQMP/ AB 617 CERP

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2023 To-Be-Determined

2023	Title and Description	Type of Rulemaking
102	<p>Definition of Terms Proposed amendments may be needed to update and add definitions, and potentially modify exemptions. <i>TBD; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other
103	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other
209	<p>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>Kalam Cheung 909.396.3281; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other
223	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP
403	<p>Fugitive Dust Proposed Amended Rule 403 will seek to remove outdated provisions and add clarification of existing provisions to enhance compliance. <i>TBD; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other
403.1	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other
407 [#]	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AB 617 BARCT

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2023 To-Be-Determined (Continued)

2023	Title and Description	Type of Rulemaking
410	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other
425	<p>Odors from Cannabis Processing Proposed Rule 425 will establish requirements for control of odors from cannabis processing. <i>TBD; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other
430	<p>Breakdown Provisions Amendments to Rule 430 will need to be amended to 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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	RECLAIM/ Other
431.1 [#]	<p>Sulfur Content of Gaseous Fuels Proposed Amended Rule 431.1 will assess exemptions, including RECLAIM, and update other provisions, if needed. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AB 617 BARCT/ AB 617 CERP
431.2 [#]	<p>Sulfur Content of Liquid Fuels Proposed Amended Rule 431.2 will assess exemptions, including RECLAIM, and update other provisions, if needed. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AB 617 BARCT/ AB 617 CERP
431.3 [#]	<p>Sulfur Content of Fossil Fuels Proposed Amended Rule 431.3 will assess exemptions, including RECLAIM, and update other provisions, if needed. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AB 617 BARCT/ AB 617 CERP
444	<p>Open Burning Amendments may be needed to clarify existing provisions. <i>TBD; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other
445 [*]	<p>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>TBD; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP

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2023 To-Be-Determined (Continued)

2023	Title and Description	Type of Rulemaking
461	<p>Gasoline Transfer and Dispensing Amendments to Rule 461 may be needed to address potential regulatory gaps. <i>TBD; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other
461.1	<p>Gasoline Transfer and Dispensing for Mobile Fueling Operations Amendments to Rule 461.1 may be needed to address new information or to improve implementation since this is a newly adopted rule. <i>TBD; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other
462	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other
468 [#]	<p>Sulfur Recovery Units Proposed Amended Rule 468 will update SO_x 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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AB 617 BARCT
469 [#]	<p>Sulfuric Acid Units Proposed Amended Rule 469 will update SO_x 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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AB 617 BARCT
1101 [#]	<p>Secondary Lead Smelters/Sulfur Oxides Proposed Amended Rule 1101 will update SO_x 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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AB 617 BARCT

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2023 To-Be-Determined (Continued)

2023	Title and Description	Type of Rulemaking
1102	<p>Dry Cleaners Using Solvent Other Than Perchloroethylene Proposed amendments may be needed to address certain exempt compounds, VOC limits for certain applications, and other amendments to improve clarity. <i>Michael Morris 909.396.3282; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AB 617 CERP
1105 [#]	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AB 617 BARCT/ AB 617 CERP
1107	<p>Coating of Metal Parts and Products Proposed amendments may be needed to address certain exempt compounds, VOC limits for certain applications, and other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics/ Other
1108	<p>Cutback Asphalt Proposed amendments may be needed to address certain exempt compounds, VOC limits for certain applications, and other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics/ Other
1108.1	<p>Emulsified Asphalt Proposed amendments may be needed to address certain exempt compounds, VOC limits for certain applications, and other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics/ Other
1110.2* ^{+#}	<p>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 Morris 909.396.3282; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP/ AB 617 BARCT

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2023 To-Be-Determined (Continued)

2023	Title and Description	Type of Rulemaking
1110.4 1401 1470	<p>Emissions from Emergency Generators New Source Review of Toxic Air Contaminants Requirements for Stationary Diesel-Fueled Internal Combustion and Other Compression Ignition Engines Proposed Rule 1110.4 and Proposed Amended Rule 1470 will establish and revise rule provisions to reduce NO_x, CO, and PM emissions from emergency generators. Proposed Amended Rule 1401 will remove the exemption for emergency generators and therefore require a demonstration that risk thresholds are not exceeded in order to obtain a permit. <i>Michael Morris 909.396.3282; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics/ Other
1111	<p>Reduction of NO_x Emissions from Natural-Gas-Fired, Fan-Type Central Furnaces Proposed Amended Rule 1111 will implement the 2022 control measure requiring zero emission residential space heating. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP
1111.1	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP
1113	<p>Architectural Coatings Proposed amendments may be needed to address delisted compounds and other amendments to improve clarity and to remove obsolete provisions. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other
1114	<p>Petroleum Refinery Coking Operations Proposed Amended Rule 1114 will seek to add notification requirements when coke particles, liquid and/or gas is ejected from the coke drum during cutting. <i>TBD; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other
1119 [#]	<p>Petroleum Coke Calcining Operations – Oxides of Sulfur Proposed Amended Rule 1119 will update SO_x 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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AB 617 BARCT/ AB 617 CERP

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2023 To-Be-Determined (Continued)

2023	Title and Description	Type of Rulemaking
1121*	<p>Control of Nitrogen Oxides from Residential Type, Natural-Gas-Fired Water Heaters Proposed amendments may be needed to further reduce NOx emissions from water heaters. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP
1121.1	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP
1122	<p>Solvent Degreasers Proposed amendments may be needed to address certain exempt compounds, VOC limits for certain applications, and other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics/ Other
1124	<p>Aerospace Assembly and Component Manufacturing Operations Proposed amendments may be needed to address certain exempt compounds, VOC limits for certain applications, and other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics/ Other
1125	<p>Metal Container, Closure, and Coil Coating Operations Proposed amendments may be needed to address certain exempt compounds, VOC limits for certain applications, and other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics/ Other
1126	<p>Magnet Wire Coating Operations Proposed amendments may be needed to address certain exempt compounds, VOC limits for certain applications, and other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics/ Other
1128	<p>Paper, Fabric, and Film Coating Operations Proposed amendments may be needed to address certain exempt compounds, VOC limits for certain applications, and other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics/ Other

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

2023 To-Be-Determined (Continued)

2023	Title and Description	Type of Rulemaking
1130	<p>Graphic Arts Proposed amendments may be needed to address certain exempt compounds, VOC limits for certain applications, and other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics/ Other
1130.1	<p>Screen Printing Operations Proposed amendments may be needed to address certain exempt compounds, VOC limits for certain applications, and other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics/ Other
1133.3	<p>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>Michael Morris 909.396.3282; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP
1136	<p>Wood Products Coatings Proposed amendments may be needed to address certain exempt compounds, VOC limits for certain applications, and other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics/ Other
1138 ⁺	<p>Control of Emissions from Restaurant Operations Proposed Amended Rule 1138 will further reduce emissions from underfired charboilers. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP
1142	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other
1143	<p>Consumer Paint Thinners and Multi-Purpose Solvents Proposed amendments may be needed to address certain exempt compounds, VOC limits for certain applications, and other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics/ Other

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2023 To-Be-Determined (Continued)

2023	Title and Description	Type of Rulemaking
1144	<p>Metalworking Fluids and Direct-Contact Lubricants Proposed amendments may be needed to address certain exempt compounds, VOC limits for certain applications, and other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics/ Other
1145	<p>Plastic, Rubber, Leather, and Glass Coatings Proposed amendments may be needed to address certain exempt compounds, VOC limits for certain applications, and other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics/ Other
1146	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other
1146.1 [#]	<p>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>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other
1162	<p>Polyester Resin Operations Proposed amendments may be needed to address certain exempt compounds, VOC limits for certain applications, and other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics/ Other
1165	<p>Control of Emissions from Incinerators Proposed Rule 1165 will establish emission standards, source testing, and monitoring, recordkeeping, and reporting requirements for incinerators. <i>Michael Morris 909.396.3282; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP
1166	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other

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2023 To-Be-Determined (Continued)

2023	Title and Description	Type of Rulemaking
1171	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics/ Other
1174	<p>Control of Volatile Organic Compound Emissions from the Ignition of Barbecue Charcoal Proposed amendments may be needed to address certain exempt compounds, VOC limits for certain applications, and other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP/ Other
1176	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other/ AB 617 CERP
1186.1, 1191, 1192, 1193, 1194, 1195, 1196* +	<p>Fleet Rules Proposed amendments to Rules 1186.1, 1191, 1192, 1193, 1194, 1195, 1196 will seek to align South Coast AQMD fleet rules with CARB’s final Advanced Clean Fleets should it be adopted. <i>Vicki White 909.396.3436; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP/ Other
1403*	<p>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>Kalam Cheung 909.396.3281; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics
1404	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics/ AQMP
1405*	<p>Control of Ethylene Oxide and Chlorofluorocarbon Emissions from Sterilization or Fumigation Processes Amendments to address ethylene oxide emissions from facilities and provisions not considered in earlier amendment. <i>Kalam Cheung 909.396.3281; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics

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2023 To-Be-Determined (Continued)

2023	Title and Description	Type of Rulemaking
1411	<p>Recovery or Recycling of Refrigerants from Motor Vehicle Air Conditioners Proposed Amended Rule 1411 seeks amendments to coincide with Section 609 of the Clean Air Act. <i>TBD; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics
1415 1415.1	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Other
1420	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics
1420.1	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics
1420.2	<p>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>Kalam Cheung 909.396.3281; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics

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2023 To-Be-Determined (Continued)

2023	Title and Description	Type of Rulemaking
1420.3	<p>Emissions Standards for Lead from Firing Ranges Proposed Rule 1420.3 will establish requirements to address lead emissions from firing ranges. <i>Kalam Cheung 909.396.3281; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Others
1426.1	<p>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>Kalam Cheung 909.396.3281; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics
1430	<p>Control of Emissions from Metal Grinding Operations at Metal Forging Facilities Amendments to Rule 1430 may be needed to further reduce emissions and odors from metal grinding and metal cutting operations at metal forging facilities. <i>Kalam Cheung 909.396.3281; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AB 617 CERP
1450*	<p>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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics
1466	<p>Control of Particulate Emissions from Soils with Toxic Air Contaminants Amendments may be needed to residential cleanup projects. <i>Michael Morris 909.396.3282; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics
1466.1	<p>Control of Particulate Emissions from Demolition of Buildings 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: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics
1469	<p>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>Kalam Cheung 909.396.3281; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics

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2023 To-Be-Determined (Continued)

2023	Title and Description	Type of Rulemaking
1470.1	<p>Emissions from Emergency Standby Diesel Fueled Engines Proposed Rule 1470.1 seeks to reduce NO_x emissions from emergency standby internal combustion engines (ICEs) by replacing older ICEs and requiring the use of commercially available lower emission fuels, such as renewable diesel. <i>Michael Morris 909.396.3282; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP
1472	<p>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 Compliance Plans. <i>Michael Morris 909.396.3282; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	Toxics
1901	<p>General Conformity Proposed Amended Rule 1901 will establish a new General Conformity determination process for applicable projects receiving federal funding or approval. <i>TBD; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP
Regulation XX	<p>RECLAIM - Requirements for Oxides of Sulfur (SO_x) Emissions Amendments to Regulation XX rules to address SO_x requirements at RECLAIM facilities if there is consideration to transition SO_x RECLAIM to command-and-control regulatory structure. <i>Michael Morris 909.396.3282; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	RECLAIM/ Other
Regulation XXIII ^{*+}	<p>Facility-Based Mobile Sources Proposed rules within Regulation XXIII would reduce emissions from indirect sources (e.g., facilities that attract mobile sources). <i>Elaine Shen 909.396.2715; CEQA: Barbara Radlein 909.396.2716; Socio: Elaine Shen 909.396.2715</i></p>	AQMP/ AB 617 CERP

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2023 To-Be-Determined (Continued)

2023	Title and Description	Type of Rulemaking
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 or for a rule that was submitted into the SIP, compliance issues that are raised by the Hearing Board. 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 measures in the 2012, 2016 or 2022 AQMP (upon adoption). 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, U.S. EPA’s National Emission Standards for Hazardous Air Pollutants, or to address the lead National Ambient Air Quality Standard. 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

* *Potentially significant hearing*

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The following is a summary of implementation of the 2016 AQMP in 2022.

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 PM2.5 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 2022, a total of fourteen rules (Rules 1109.1, 1110.2, 1117, 1118.1, 1134, 1135, 1146, 1146.1, 1146.2, 1147, 1147.1, 1147.2, 1150.3, and 1179.1) were adopted/amended as part of the BARCT implementation. Subsequent amendments to Rules 218.1, 218.2, 429, 429.2, 1134 and 1135 occurred in 2022 to support existing approved rules impacting RECLAIM facilities as they transition out of the program. 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 NOx emissions by approximately 7.7 to 7.9 tpd upon final implementation, with 3.7 to 3.8 tpd expected by 2023. Two additional rules (Rules 1153.1, and 1159.1) are currently under development and are scheduled for Board consideration for amendment or adoption in calendar year 2023. Table 1 provides a complete list of rules that have been adopted as part of the 2016 AQMP implementation.

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	1.1	--
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	2.1	--

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	2018-2022	0.0	5.0	9.4***	13.4***

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
NO_x 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 NO_x REDUCTIONS			23.1	31.0	22.3 to 23.1	15.3 to 16.8

* 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 series, 1150.3, and 1179.1 (adopted from 2018 to 2021, with partial reductions of 3.7 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. Rulemaking is also currently under way for new rail yards and marine ports with the expectation for Board consideration in 2023. In 2022, two new rules, Rules 403.2 and 1460, were adopted seeking reduce fugitive particulate matter (PM) emissions, respectively, from construction piles, and metal shredding and recycling facilities.

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 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 2022.

TABLE 2
Estimated Emission Reductions Benefits From 2022 Incentive Programs

Program	# of Engines / Equipment / INF Stations	Estimated Emission Reductions NO_x (TPY)	Estimated Emission Reductions PM (TPY)	Award Amount
Carl Moyer	472	397.4	8.2	\$136,034,507
Carl Moyer (On-Road Solicitation from April 2022)	406	75.2	0.6	\$45,897,686
AB 617 CAPP Incentives	4	18.9	1.0	\$2,785,000
Lower-Emission School Bus*	N/A	N/A	N/A	N/A
FARMER Program	15	17.9	1.3	\$1,902,977
Volkswagen Mitigation	165	30.6**	N/A	\$18,764,653
VIP	128	38.6	0	\$19,885,000
Prop 1B	57	14.9	0	\$5,900,000
Replace your Ride	739	2.1	0.1	\$5,888,000
TOTAL	1,986	595.6	11.2	\$237,057,823

*No new LESBP solicitation in 2022

**Only NO_x reduction is required for VW Program.