

BOARD MEETING DATE: January 10, 2025

AGENDA NO. 19

REPORT: Rule and Control Measure Forecast

SYNOPSIS: This report highlights South Coast AQMD rulemaking activities and public hearings scheduled for 2025 and provides a summary of implementation of the 2016 and 2022 AQMPs in 2024.

COMMITTEE: No Committee Review

RECOMMENDED ACTION:
Receive and file.

Wayne Natri
Executive Officer

SLR:MK:IM:JA:ZS

2025 MASTER CALENDAR

The 2025 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.

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.

2025 MASTER CALENDAR

Month	Title and Description	Type of Rulemaking
February¹		
1111* ⁺	<p>Reduction of NO_x Emissions from Natural-Gas-Fired, Fan-Type Central Furnaces</p> <p>Proposed Amended Rule 1111 will require zero-emission NO_x limits on new installations of applicable residential and commercial furnaces based on future effective dates, along with alternative compliance options.</p> <p style="text-align: right;"><i>Heather Farr 909.396.3672; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	AQMP
1121* ⁺	<p>Control of Nitrogen Oxides from Residential Type, Natural-Gas-Fired Water Heaters</p> <p>Proposed Amended Rule 1121 will require zero-emission NO_x limits on new installations of applicable small water heaters based on future effective dates, along with alternative compliance options.</p> <p style="text-align: right;"><i>Heather Farr 909.396.3672; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	AQMP
March		
1445*	<p>Control of Toxic Emissions from Laser and Plasma Arc Metal Cutting</p> <p>Proposed Rule 1445 will establish requirements to reduce hexavalent chromium and other metal toxic air contaminant particulate emissions from laser arc cutting.</p> <p style="text-align: right;"><i>Kalam Cheung 909.396.3281; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics / AB 617 CERP

¹ At the December 2024 Stationary Source Committee meeting, it was recommended to move the February items, PAR 1111 and PAR 1121, to the April Board Meeting. The Governing Board will consider this recommendation at the January 2025 Board Meeting.

* *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

2025 MASTER CALENDAR (Continued)

Month	Title and Description	Type of Rulemaking
May		
1171	<p>Solvent Cleaning Operations Proposed Amended Rule 1171 will seek to phase out two toxic compounds, pCBtF and tBAC, and consider interim VOC limits for certain coatings that are being reformulated as well as other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics / AB 617 CERP
Regulation III	<p>Fees Regulation III, which is comprised of Rules 301, 303, 304, 304.1, 306, 307.1, 308, 309, 311, 313, 314, 315, and 316, will be amended to increase most fees to be consistent with the California Consumer Price Index as established in Rule 320 and other possible fee revisions. <i>Kalam Cheung 909.396.3281; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	Other
June		
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>Kalam Cheung 909.396.3281; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	AQMP
462	<p>Organic Liquid Loading Proposed Amended Rule 462 will incorporate the use of advanced techniques to detect fugitive emissions and vapor leaks. Other amendments may be needed to streamline implementation and add clarity. <i>Michael Morris 909.396.3282; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	AQMP
1124	<p>Aerospace Assembly and Component Manufacturing Operations Proposed Amended Rule 1124 will seek to phase out two toxic compounds, pCBtF and tBAC, and consider interim VOC limits for certain coatings that are being reformulated as well as other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics / Other

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

2025 MASTER CALENDAR *(Continued)*

Month	Title and Description	Type of Rulemaking
3rd Quarter		
2304*+ 316.1	<p>Commercial Marine Ports – Container Terminals Fees for Rule 2304</p> <p>Proposed Rule 2304 will establish requirements to reduce emissions from container terminals located at commercial marine ports and the mobile sources attracted to these facilities. Proposed Rule 316.1 will establish fees to recover the South Coast AQMD’s anticipated cost of implementing Proposed Rule 2304.</p> <p style="text-align: center;"><i>Elaine Shen 909.396.2715; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	AQMP / AB 617 CERP
445*	<p>Wood Burning Devices</p> <p>Proposed Amended Rule 445 will address additional U.S. EPA requirements for Best Available Control Measures, including lowering the curtailment threshold.</p> <p style="text-align: center;"><i>Kalam Cheung 909.396.3281; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	AQMP
1107	<p>Coating of Metal Parts and Products</p> <p>Proposed Amended Rule 1107 will seek to phase out two toxic compounds, pCBtF and tBAC, and consider interim VOC limits for certain coatings that are being reformulated as well as other amendments to improve clarity.</p> <p style="text-align: center;"><i>Heather Farr 909.396.3672; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics / Other
1133.3	<p>Emission Reductions from Greenwaste Composting Operations</p> <p>Proposed Amended Rule 1133.3 will seek additional VOC and ammonia emission reductions by requiring composting of chipped and ground greenwaste and other best management practices.</p> <p style="text-align: center;"><i>Michael Morris 909.396.3282; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	AQMP
1138+	<p>Control of Emissions from Restaurant Operations</p> <p>Proposed Amended Rule 1138 will address U.S. EPA requirements to be no less stringent than other air districts.</p> <p style="text-align: center;"><i>Elaine Shen 909.396.2715; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	AQMP
4th Quarter		
404	<p>Particulate Matter – Concentration</p> <p>Proposed Amended Rule 404 seeks to address operations of air curtain incinerators with new provisions and requirements.</p> <p style="text-align: center;"><i>Michael Morris 909.396.3282; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	Other

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2025 MASTER CALENDAR (Continued)

Month	Title and Description	Type of Rulemaking
4th Quarter (Continued)		
1136	<p>Wood Products Coatings Proposed Amended Rule 1136 will seek to phase out two toxic compounds, pCBtF and tBAC, and consider interim VOC limits for certain coatings that are being reformulated as well as other amendments to improve clarity. <i>Heather Farr 909.396.3672; CEQA and Socio: Barbara Radlein 909.396.2716</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 will seek further emission reductions from an updated BARCT analysis. <i>Michael Morris 909.396.3282; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	AQMP / 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 seeks further emission reductions from an updated BARCT analysis. <i>Michael Morris 909.396.3282; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	AQMP / Other
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 and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics
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 and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics

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2025 MASTER CALENDAR (Continued)

Month	Title and Description	Type of Rulemaking
4th Quarter (Continued)		
1435*	<p>Control of Toxic Air Contaminant Emissions from Metal Heating Operations 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 and Socio: Barbara Radlein 909.396.2716</i></p>	AQMP / AB 617 CERP
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 and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics / Other
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 reconcile Regulation XIII with 2002 NSR Reform. Additional rules under Regulation XIII may be needed to address offsets and other provisions under Regulation XIII. <i>Michael Morris 909.396.3282; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	AQMP
Regulation XX**	<p>RECLAIM Proposed Amended Regulation XX will address the transition of NOx RECLAIM facilities to a command-and-control regulatory structure. <i>Michael Morris 909.396.3282; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	AQMP

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2025 To-Be-Determined

2025	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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</i></p>	Other
403	<p>Fugitive Dust Proposed Amended Rule 403 will seek to remove outdated provisions and clarify existing provisions to enhance compliance. <i>TBD; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	Other
403.1	<p>Supplemental Fugitive Dust Control Requirements for Coachella Valley Sources Proposed Amended Rule 403.1 will clarify existing requirements for dust control and remove outdated provisions contained in supporting documents for Rule 403.1. <i>TBD; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	Other
407 [#]	<p>Liquid and Gaseous Air Contaminants Proposed Amended Rule 407 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 and Socio: Barbara Radlein 909.396.2716</i></p>	AB 617 BARCT
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 and Socio: Barbara Radlein 909.396.2716</i></p>	Other

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2025 To-Be-Determined (Continued)

2025	Title and Description	Type of Rulemaking
425	<p>Odors from Cannabis Processing Proposed Rule 425 will establish requirements for control of odors from cannabis processing. <i>TBD; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	Other
430	<p>Breakdown Provisions Amendments to Rule 430 will be needed 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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</i></p>	AB 617 BARCT / AB 617 CERP
444	<p>Open Burning Amendments may be needed to clarify existing provisions. <i>Michael Morris 909.396.3282; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	Other
444.1	<p>Air Curtain Incinerators Proposed Rule 444.1 may be needed to address the operations of air curtain incinerators with provisions and requirements. <i>Michael Morris 909.396.3282; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	Other
461	<p>Gasoline Transfer and Dispensing Amendments to Rule 461 may be needed to address potential regulatory gaps. <i>TBD; CEQA and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</i></p>	AB 617 BARCT

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2025 To-Be-Determined (Continued)

2025	Title and Description	Type of Rulemaking
469 [#]	<p>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 and Socio: Barbara Radlein 909.396.2716</i></p>	AB 617 BARCT
1101 [#]	<p>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 and Socio: Barbara Radlein 909.396.2716</i></p>	AB 617 BARCT
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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</i></p>	AB 617 BARCT / AB 617 CERP
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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics / Other
1110.2* ^{+ #}	<p>Emissions from Gaseous- and Liquid-Fueled Engines Proposed amendments will address use of emergency standby engines, 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 and Socio: Barbara Radlein 909.396.2716</i></p>	AQMP / AB 617 BARCT

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2025 To-Be-Determined (Continued)

2025	Title and Description	Type of Rulemaking
1110.4	<p>Emissions from Emergency Generators Proposed Rule 1110.4 will establish and revise rule provisions to reduce NO_x, CO, and PM emissions from emergency generators. <i>Michael Morris 909.396.3282; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	Other / 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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</i></p>	AB 617 BARCT / AB 617 CERP
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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics / Other

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2025 To-Be-Determined (Continued)

2025	Title and Description	Type of Rulemaking
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 and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics / Other
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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics / Other
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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics / Other
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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics / Other

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2025 To-Be-Determined (Continued)

2025	Title and Description	Type of Rulemaking
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 and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics / Other
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 and Socio: Barbara Radlein 909.396.2716</i></p>	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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</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 regulation. <i>Sang-Mi Lee: 909.396.3169; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	AQMP / Other
1401	<p>New Source Review of Toxic Air Contaminants Proposed Amended Rule 1401 will amend Table 1 to include new toxic air contaminants identified by California Office of Environmental Health Hazard Assessment (OEHHA). <i>Kalam Cheung 909.396. 3281; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics / 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 and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics

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2025 To-Be-Determined (Continued)

2025	Title and Description	Type of Rulemaking
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 and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics / AQMP
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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics

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2025 To-Be-Determined (Continued)

2025	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 and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics / Other
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 and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics
1455	<p>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 and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics / AB 617 CERP
1466	<p>Control of Particulate Emissions from Soils with Toxic Air Contaminants Amendments may be needed for residential cleanup projects. <i>Michael Morris 909.396.3282; CEQA and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics
1470	<p>Requirements for Stationary Diesel-Fueled Internal Combustion and Other Compression Ignition Engines Proposed Amended Rule 1470 seeks to reduce NOx emissions from stationary internal combustion engines (ICEs) by replacing older ICEs with alternative cleaner technology. <i>Michael Morris 909.396.3282; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	AQMP / Toxics
1470.1	<p>Emissions from Emergency Standby Diesel-Fueled Engines Proposed Rule 1470.1 seeks to reduce NOx 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 and Socio: Barbara Radlein 909.396.2716</i></p>	AQMP / Toxics

* 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

2025 To-Be-Determined (Continued)

2025	Title and Description	Type of Rulemaking
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 latest OEHHA Health Risk Assessment Guidelines and assess the need for Compliance Plans. <i>Michael Morris 909.396.3282; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	Toxics
1480.1	<p>Ambient Monitoring and Sampling of Gaseous Toxic Air Contaminants Proposed Rule 1480.1 will establish requirements to conduct monitoring and sampling for those facilities identified as significant high-risk level. <i>Heather Farr 909.396.3672; CEQA and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</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 and Socio: Barbara Radlein 909.396.2716</i></p>	RECLAIM / Other
Regulation XXIII* ⁺	<p>Facility-Based Mobile Sources Proposed rules within Regulation XXIII would reduce emissions from indirect sources and the mobile sources attracted to these facilities. <i>Elaine Shen 909.396.2715; CEQA and Socio: Barbara Radlein 909.396.2716</i></p>	AQMP / AB 617 CERP

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2025 To-Be-Determined (Continued)

2025	Title and Description	Type of Rulemaking
Regulation II, III, IV, V, VII, VIII, XI, XIV, XIX, XXIII, XXIV, XXX and XXXV	<p>Various rule amendments may be needed to meet the requirements of state and federal laws; implement OEHHA’s latest risk assessment guidance; incorporate changes from OEHHA to new or revised toxic air contaminants or their risk values; address variance issues, emission limits, technology-forcing emission limits, and conflicts with other agency requirements; abate substantial endangerment to public health; apply additional reductions to meet SIP short-term measure commitments; address issues raised by U.S. EPA or CARB for the SIP or for a rule that was submitted into the SIP; and address compliance issues raised by the Hearing Board. In addition, administrative changes could be necessary for Hearing Board procedures, filings, petitions, noticing, etc. 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. 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.</p>	Other / AQMP/ Toxics / AB 617 BARCT / AB 617 CERP

* *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

The following is a summary of implementation of the 2016 and 2022 AQMP in 2024.

Summary of 2016 AQMP and 2022 AQMP Implementation

The 2016 AQMP and 2022 AQMP were adopted, respectively, in March 2017 and December 2022, then subsequently approved by CARB before being submitted to State Implementation Plan (SIP) with the U.S. EPA. Both AQMPs 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 and 2022 AQMP. Adoption of rules and rule amendments are also needed to meet the requirements of AB 617. From 2018 to 2024, a total of twenty-six rules (Rules 463, 1109.1, 1110.2, 1117, 1118, 1118.1, 1134, 1135, 1146, 1146.1, 1146.2, 1147, 1147.1, 1147.2, 1148.1, 1148.2, 1150.3, 1151, 1153.1, 1159.1, 1165, 1168, 1173, 1178, 1179.1, and 2306) were adopted/amended as part of the control measure strategies in both the 2016 and 2022 AQMP. Control Measure CMB-05 in the 2016 AQMP required facilities in the RECLAIM Program to implement BARCT and along with rules listed above, subsequent amendments to Rules 218.1, 218.2, 429, and 429.2 were adopted to specifically support the transition of RECLAIM facilities to a command and control regulatory program. With the exception of Rule 1109.1, the total emission reductions resulting from the RECLAIM transition rules are about six tpd which are anticipated to be achieved by 2024. 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. Upcoming Rules 462, 1111, 1121, 1146, and 1146.1 will continue to seek further emission reductions to fulfill the target goals set out in the 2022 AQMP.

The 2016 AQMP targeted NO_x reductions goals of 23 tpd by 2023 and 31 tpd by 2031 to meet the 1997 and 2008 8-hour ozone standards, respectively, and as shown in Table 1, the 2023 NO_x goal is anticipated to be met, yet more NO_x reductions are needed in future years to achieve the 2031 goal. VOC reductions were targeted at 6.4 tpd by 2023 and 9.6 tpd by 2031 so more VOC reductions are necessary. Table 1 provides a complete list of rules that have been adopted as part of the implementation of 2016 AQMP. Table 2 provides the rules being amended and adopted as part of the implementation of the 2022 AQMP. While emission reduction efforts are ongoing, so far, NO_x reductions by 2032 are anticipated to be 1.82 tpd, which is less than the target of 2.72 tpd by 2032. Similarly, NO_x reductions are currently on track for 3.42 tpd by 2037 which is less than the target of 22.07 tpd in the 2022 AQMP. VOC reductions of 4.30 tpd by 2032 exceeds the target of 1.1 tpd, which will assist in the shortfall of VOC reductions from the implementation of the 2016 AQMP. Accordingly, the VOC reductions of 4.87 tpd by 2037 will exceed the target of 1.2 tpd in the 2022 AQMP and will assist in attaining the future ozone standard.

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/Rule(s)	
			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	1.1
FUG-01	Improved Leak Detection and Repair [R1178, R1173, R463, R1148.1]	--	2.0	2.0	0.45	0.61
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	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 [R1133.3]	--	1.5	1.8	--	--
MSC-02	Application of All Feasible Measures	TBD	TBD	TBD	0.88**	
TOTAL VOC REDUCTIONS			6.4	9.6	2.5	1.7

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/Rule(s)	
			2023	2031	2023	2031
PM2.5 EMISSIONS						
BCM-01	Further Emission Reductions from Commercial Cooking [R1138]	--	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] [R1133.3]	--	0.1	0.1	--	--
TOTAL PM2.5 REDUCTIONS			TBD	3.6	--	--
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	0.87	2.5
CMB-03	Emission Reductions from Non-Refinery Flares [R1118.1]	2018	1.4	1.5	0.2	0.2
CMB-04	Emission Reductions from Restaurant Burners and Residential Cooking	--	0.8	1.6	--	--
CMB-05	Further NOx Reductions from RECLAIM Assessment	2018-2023	0.0	5.0	9.4***	13.7***

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/Rule(s)	
			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 [R2305]	2021	TBD	TBD	0.7 to 1.5*****	1.5 to 3.0*****
MOB-04	Emission Reductions at Commercial Airports [R2304]	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	23.3 to 24.1	18.3 to 19.8

* 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, 1153.1, 1159.1 and 1179.1 (adopted from 2018 to 2024, 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.

Table 2
2022 AQMP Emission Reductions (tons per day) by Measure/Attainment Date

Control Measure #	Control Measure Title	AQMP Commitment		Reduction in Approved Measure/Rule(s)	
		2032	2037	2032	2037
R-CMB-01^a	Emission Reductions from Replacement with Zero Emission or Low NOx Appliances - Residential Water Heating [NOx][R1121]	0.46	1.25	--	--
R-CMB-02^a	Emission Reductions from Replacement with Zero Emission or Low NOx Appliances - Residential Space Heating [NOx][R1111]	0.44	1.17	--	--
R-CMB-03	Emissions Reductions from Residential Cooking Devices [NOx]	0.29	0.79	--	--
R-CMB-04	Emission Reductions from Replacement with Zero Emission or Low NOx Appliances - Residential Other Combustion Sources [NOx]	1.15	3.09	--	--
C-CMB-01^a	Emission Reductions from Replacement with Zero Emission or Low NOx Appliances - Commercial Water Heating [NOx][R1146.2]	0.04	0.25	0.68	2.21
C-CMB-02^a	Emission Reductions from Replacement with Zero Emission or Low NOx Appliances - Commercial Space Heating [NOx][R1111]	0.04	0.21	--	--

Table 2 (Continued)
2022 AQMP Emission Reductions (tons per day) by Measure/Attainment Date

Control Measure #	Control Measure Title	AQMP Commitment		Reduction in Approved Measure/Rule(s)	
		2032	2037	2032	2037
C-CMB-03	Emission Reductions from Commercial Cooking Devices [NOx]	0.21	0.64	--	--
C-CMB-04	Emission Reductions from Small Internal Combustion Engines [NOx]	0.00	2.25	--	--
C-CMB-05	NOx Reductions from Small Miscellaneous Commercial Combustion Equipment (Non-Permitted) [NOx]	0.00	5.14	--	--
L-CMB-01	NOx Reductions from RECLAIM Facilities [NOx]	0.00	0.31	--	--
L-CMB-02	Reductions from Boilers and Process Heaters (Permitted) [NOx][R1146, R1146.1]	0.00	0.45	--	--
L-CMB-03	NOx Emission Reductions from Permitted Non-Emergency Internal Combustion Engines [NOx]	0.00	0.34	--	--
L-CMB-04	Emission Reductions from Emergency Standby Engines (Permitted) [NOx, VOCs] [R1110.4]	0.00	2.04	--	--
L-CMB-05	NOx Emission Reductions from Large Turbines [NOx] [R1134]	0.00	0.07	--	--
L-CMB-06	NOx Emission Reductions from Electricity Generating Facilities [NOx] [R1135]	0.09	0.91	0.11	0.18
L-CMB-07	Emission Reductions from Petroleum Refineries [NOx][R1118]	0.00	0.89	0.03	0.03
L-CMB-08	NOx Emission Reductions from Combustion Equipment at Landfills and Publicly Owned Treatment Works [NOx] [R1150.3]	0.00	0.33	0.15	0.15

Table 2 (Continued)
2022 AQMP Emission Reductions (tons per day) by Measure/Attainment Date

Control Measure #	Control Measure Title	AQMP Commitment		Reduction in Approved Measure/Rule(s)	
		2032	2037	2032	2037
L-CMB-09	NOx Reductions from Incinerators [NOx][R1165]	0.00	0.90	0.76 ^b	0.76 ^b
L-CMB-10	NOx Reductions from Miscellaneous Permitted Equipment [NOx][R1148.1]	0.00	1.01	0.05	0.05
TOTAL NOx Emission Reductions (tpd)		2.72	22.07	1.82	3.42
ECC-01	Co-Benefits from Existing and Future Greenhouse Gas Programs, Policies, and Incentives [NOx]	TBD	TBD ^c	--	--
ECC-02	Co-Benefits from Existing and Future Residential and Commercial Building Energy Efficiency Measures [NOx, VOCs]	TBD	TBD	--	--
ECC-03	Additional Enhancements in Reducing Existing Residential Building Energy Use [NOx, VOCs]	TBD	TBD	--	--
FUG-01	Improved Leak Detection and Repair [VOCs] [R1173, R463, R1148.1]	0.6	0.6	3.41	3.92
FUG-02	Emission Reductions from Industrial Cooling Towers [VOCs]	TBD	TBD	--	--
CTS-01	Further Emission Reductions from Coatings, Solvents, Adhesives, and Lubricants [VOCs][R1151]	0.5	0.5	0.19	0.19
FLX-02	Stationary Source VOC Incentives [VOCs]	TBD	TBD	--	--
BIO-01	Assessing Emissions from Urban Vegetation [VOCs]	TBD	TBD	--	--

Table 2 (Continued)
2022 AQMP Emission Reductions (tons per day) by Measure/Attainment Date

Control Measure #	Control Measure Title	AQMP Commitment		Reduction in Approved Measure/Rule(s)	
		2032	2037	2032	2037
L-CMB-04^d	Emission Reductions from Emergency Standby Engines (Permitted) [NO _x , VOCs]	0.0	0.1	--	--
MCS-01	Application of All Feasible Measures [All Pollutants][R463, R1118, R1148.1, R1173, R1178]	TBD	TBD	4.11	4.68
TOTAL VOC Emission Reductions (tpd)		1.1	1.2	4.30^e	4.87^e
MCS-02	Wildfire Prevention [NO _x , PM]	N/A	N/A ^f	--	--
FLX-01	Improved Education and Public Outreach [All Pollutants]	N/A	N/A	--	--

- a Will be used to assist CARB's control measure, Zero-Emission Standard for Space and Water Heaters included in the 2022 State SIP
- b Emission reductions account for the shutdown of the Southeast Resource Recovery Facility (SERRF)
- c TBD are reductions to be determined once the measure is further evaluated, the technical assessment is complete, and inventories and cost-effective control approaches are identified, and are not relied upon for attainment demonstration purposes.
- d This is a NO_x control measure with co-benefits of VOC reductions.
- e Some rules address multiple control measures. The total VOC emission reductions removed multiple-counting of rule reductions.
- f N/A are reductions that cannot be quantified due to the nature of the measure (e.g., outreach) or if the measure is designed to ensure reductions that have been assumed to occur will in fact occur.

In addition, beyond the stationary and area source in the AQMPs, South Coast AQMD continues the implementation of incentive programs for cleaner on-road and off-road mobile sources that generate both NOx and PM emission reductions. These ongoing mobile source programs include incentive programs (e.g., Carl Moyer) specified in the 2016 AQMP control measure MOB-14 (Emission Reductions from Incentive Programs) along with the 2022 AQMP control measures MOB-05 (Accelerated Retirement of Older Light-Duty and Medium-Duty Vehicles), MOB-06 (Accelerated Retirement of Older On-Road Heavy Duty Vehicles), MOB-08 (Small Off Road Engine Equipment Exchange Program) and MOB-11 (Emission Reductions from Incentive Programs). The Mobile Source Incentive Programs listed in Table 3 includes the number of affected mobile source equipment and emission reductions in tons per year (tpy) for projects approved in year 2024.

TABLE 3
Estimated Emission Reductions Benefits From 2024 Incentive Programs

Program	# of Engines / Equipment / INF Stations	Estimated Emission Reductions NOx (TPY)	Estimated Emission Reductions PM (TPY)	Award Amount
Carl Moyer ¹	796	591.7	16.5	\$296,926,808
Carl Moyer ZE Infrastructure ⁴	28	--	--	\$109,125,778
Lower-Emission School Bus ²	NA	NA	NA	NA
FARMER Program	27	12.7	1.1	\$2,045,790
Volkswagen Mitigation ³	119	208	NA	\$18,686,965
VIP	4	1.31	0	\$890,000
Replace your Ride	1,349	4	0.2	\$10,968,500
Residential Lawn & Garden	1,673	0.11	0	\$363,267
Commercial L&G	1,334	0.5	0.2	\$1,762,405
TOTAL for 2024	5,330	818.3	18.0	\$440,769,513

¹ Carl Moyer solicitation w/ data based on **February 2024** Board letter (including CAPP funded projects and backup projects (off-road/marine only))

²No new LESBP solicitation in 2023 or 2024

³Only NOx reduction is required for VW Program

⁴Carl Moyer solicitation w/ data based on **December 2024** Board letter (including CAPP funded projects and backup projects)

* Potentially significant hearing

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

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