

BOARD MEETING DATE: January 8, 2021

AGENDA NO. 16

REPORT: Rule and Control Measure Forecast

SYNOPSIS: This report highlights South Coast AQMD rulemaking activities and public hearings scheduled for 2021, and provides a summary of implementation of the 2016 AQMP in 2020.

COMMITTEE: No Committee Review

RECOMMENDED ACTION:
Receive and file.

Wayne Natri
Executive Officer

PMF:SN:SR:AK:ZS

2021 MASTER CALENDAR

The 2021 Master Calendar provides a list of proposed or proposed amended rules for each month, with a brief description, and a notation in the third column indicating if the rulemaking is for the 2016 AQMP, Toxics, AB 617 BARCT, or Other. Rulemaking efforts that are noted for implementation of the 2016 AQMP, Toxics, and AB617 BARCT are either statutorily required and/or are needed to address a public health concern. Projected emission reductions will be determined during rulemaking.

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

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 is a potentially significant hearing.*
- + *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.

118.1	Local Emergencies
Staff is considering a proposed rule to address use of emergency standby engines for essential public services and other similar entities during specific local emergency situations.	
1109	Emissions of Oxides of Nitrogen from Boilers and Process Heaters in Petroleum Refineries
1109.1	Reduction of Emissions of Oxides of Nitrogen from Refinery Equipment
Per Board direction, the public hearing for PR 1109.1 will be moved from March to June 2021 based on industry stakeholder comments received at the December 2020 Board meeting.	
2305	Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program
316	Fees for Rule 2305
Proposed Rules 2305 and 316 will be moved from March to April 2021 to allow staff additional time to respond to stakeholder comments.	

* *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

2021 MASTER CALENDAR

Month	Title and Description	Type of Rulemaking
February		
1150.3 ^{*+}	NOx Emission Reductions from Combustion Equipment at Landfills Proposed Rule 1150.3 will establish NOx emission limits for combustion equipment burning biofuels to reflect Best Available Retrofit Control Technology and include monitoring, reporting, and recordkeeping requirements at landfills. <i>Michael Morris 909.396.3282; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AQMP/ AB 617 BARCT
March		
218 ^{*#} 218.1 218.2 218.3	Continuous Emission Monitoring Continuous Emission Monitoring Performance Specifications Enhanced Requirements for Continuous Emission Monitoring System Enhanced Requirements for Continuous Emission Monitoring System Performance Specifications Proposed Amended Rules 218 and 218.1 will include existing provisions for continuous emissions monitoring systems for non-RECLAIM facilities with minor revisions. The revised provisions for Continuous Emissions Monitoring Systems (CEMS) will be included in Proposed Rules 218.2 and 218.3 for non-RECLAIM and former RECLAIM facilities. <i>Michael Krause 909.396.2706; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AQMP
April		
1426 [*]	Reduction of Toxic Air Contaminants from Metal Finishing Operations Proposed amendments to Rule 1426 will establish requirements to reduce nickel, cadmium, hexavalent chromium, and other metal air toxics from plating and related operations. Proposed Amended Rule 1426 will focus on measures to minimize fugitive metal toxic air contaminant emissions. <i>Jillian Wong 909.396.3176; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Toxics/ AB 617 CERP

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

2021 MASTER CALENDAR (Continued)

Month	Title and Description	Type of Rulemaking
April (Continued)		
2305 ⁺⁺ 316	Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program Fees for Rule 2305 Proposed Rule 2305 will both reduce emissions and facilitate local and regional emission reductions associated with warehouses and the mobile sources attracted to warehouses. Proposed Rule 316 will collect fees from facilities covered by PR 2305 to recover costs related to compliance activities. <i>Ian MacMillan 909.396.3244; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AQMP/ AB 617 CERP
May		
1466	Control of Particulate Emissions from Soils with Toxic Air Contaminants Proposed amendments to Rule 1466 will clarify existing provisions and update requirements for pre-approved monitors. <i>Michael Morris 909.396.3282; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Toxics
1469.1 [*]	Spraying Operations Using Coatings Containing Chromium Proposed Amended Rule 1469.1 will establish additional requirements to address hexavalent chromium emissions from spraying operations using chromate primers and coatings. <i>Jillian Wong 909.396.3176; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Toxics/ AB 617 CERP
Reg. III	Fees This is a placeholder as staff may propose minor amendments to Regulation III as part of the annual budget process. <i>Ian MacMillan 909.396.3244; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
June		
445 [*]	Wood Burning Devices Proposed Amended Rule 445 will address additional U.S. EPA requirements for Best Available Control Measures and potentially address ozone contingency measure requirements for the Coachella Valley. <i>Tracy Goss 909.396.3106; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AQMP

^{*} 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

2021 MASTER CALENDAR *(Continued)*

Month	Title and Description	Type of Rulemaking
June (Continued)		
1109*+ 1109.1*+ [#]	<p>Emissions of Oxides of Nitrogen from Boilers and Process Heaters in Petroleum Refineries</p> <p>Reduction of Emissions of Oxides of Nitrogen from Refinery Equipment</p> <p>Proposed Rule 1109.1 will establish NOx emission limits to reflect Best Available Retrofit Control Technology for NOx emitting equipment at petroleum refineries and related operations, and include monitoring, reporting, and recordkeeping requirements. Rule 1109 is proposed to be rescinded.</p> <p><i>Michael Krause 909.396.2706; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i></p>	<p>AQMP/ AB 617 BARCT/ AB 617 CERP</p>
1147*+ 1100 [#]	<p>NOx Reductions from Miscellaneous Sources</p> <p>Proposed Amended Rule 1147 will revise NOx emission limits to reflect Best Available Retrofit Control Technology for miscellaneous combustion sources and that will apply to RECLAIM and non-RECLAIM facilities.</p> <p>Implementation Schedule for NOx Facilities</p> <p>Proposed Amended Rule 1100 will establish the implementation schedule for Rule 1147 equipment at NOx RECLAIM and former NOx RECLAIM facilities.</p> <p><i>Michael Krause 909.396.2706; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i></p>	<p>AQMP/ AB 617 BARCT</p>
2306	<p>Emission Reductions from Indirect Sources at Railyards</p> <p>Proposed Rule 2306 will reduce emissions from indirect sources associated with railyards.</p> <p><i>Ian MacMillan 909.396.3244; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i></p>	<p>AQMP/ AB 617 CERP</p>
August		
1110.2*+ [#]	<p>Emissions from Gaseous- and Liquid-Fueled Engines</p> <p>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.</p> <p><i>Jillian Wong 909.396.3176; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i></p>	<p>AQMP/ AB 617 BARCT</p>

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2021 MASTER CALENDAR *(Continued)*

Month	Title and Description	Type of Rulemaking
August (Continued)		
1135	<p>Emissions of Oxides of Nitrogen from Electricity Generating Facilities</p> <p>Proposed Amended Rule 1135 will revise startup, shutdown, and malfunction requirements and monitoring, reporting, and recordkeeping provisions to reflect amendments to rules regulating Continuous Emissions Monitoring Systems. Proposed amendments may also be needed to incorporate possible comments by U.S. EPA for approval into the SIP.</p> <p><i>Michael Morris 909.396.3282; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i></p>	AQMP/ AB 617 BARCT
1147.2 ^{*+ #}	<p>NOx Reductions from Metal Melting and Heating Furnaces</p> <p>Proposed Rule 1147.2 will establish NOx emission limits to reflect Best Available Retrofit Control Technology for metal melting and heating furnaces and will apply to RECLAIM and non-RECLAIM facilities.</p>	AQMP/ AB 617 BARCT
1147 ^{*+ #}	<p>NOx Reductions from Miscellaneous Sources</p> <p>Proposed Amended Rule 1147 will remove equipment that will be regulated under Proposed Rule 1147.2.</p> <p><i>Michael Morris 909.396.3282; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i></p>	
1470	<p>Requirements for Stationary Diesel-Fueled Internal Combustion and Other Compression Ignition Engines</p> <p>Proposed Amended Rule 1470 will address provisions for essential public services for testing engines and additional provisions, if needed, to ensure proposed amendments meet state requirements.</p> <p><i>Jillian Wong 909.396.3176; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i></p>	Toxics

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2021 MASTER CALENDAR (Continued)

Month	Title and Description	Type of Rulemaking
September		
219* 461 461.1	Equipment Not Requiring a Written Permit Pursuant to Regulation II Gasoline Transfer and Dispensing Mobile Refueling Gasoline Transfer and Dispensing Proposed Amended Rule 219 will modify permitting requirements for mobile fueling operations. Proposed Amended 461 will remove requirements for mobile refueling operations and Proposed Rule 461.1 will establish requirements for mobile refueling operations. <i>Jillian Wong 909.396.3176; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
1134	Emissions of Oxides of Nitrogen from Stationary Gas Turbines Proposed Amended Rule 1134 will revise startup, shutdown, and malfunction requirements and monitoring, reporting, and recordkeeping provisions to reflect amendments to rules regulating Continuous Emissions Monitoring Systems. Proposed amendments may also be needed to incorporate possible comments by U.S. EPA for approval into the SIP. <i>Michael Morris 909.396.3282; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AQMP/ AB 617 BARCT
1157.1	PM 10 Emission Reductions from Concrete and Asphalt Crushing and Grinding Operations Proposed Rule 1157.1 will establish requirements to minimize PM emissions from recycled concrete and asphalt crushing and grinding operations, including storage and transfer of materials. <i>Tracy Goss 909.396.3106; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
October		
1115	Motor Vehicle Assembly Line Coating Operations Proposed amendments will address U.S. EPA RACT requirements. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
1147.1*+ 1147*+ #	NOx Reductions for Equipment at Aggregate Facilities Proposed Rule 1147.1 will establish NOx emission limits to reflect Best Available Retrofit Control Technology for NOx equipment at aggregate facilities and will apply to RECLAIM and non-RECLAIM facilities. NOx Reductions from Miscellaneous Sources Proposed Amended Rule 1147 will remove equipment that will be regulated under Proposed Rule 1147.1. <i>Michael Krause 909.396.2706; CEQA: Jillian Wong 909.396.3176 and Socio: Ian MacMillan 909.396.3244</i>	AQMP/ AB 617 BARCT

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2021 MASTER CALENDAR (Continued)

Month	Title and Description	Type of Rulemaking
October (Continued)		
1445*	Control of Toxic Emissions from Laser Arc Cutting Proposed Rule 1445 will establish requirements to reduce metal toxic air contaminant particulate emissions from laser arc cutting. <i>Michael Morris 909.396.3282; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Toxics
Regulation XX*#	RECLAIM Proposed Amended Regulation XX will address the transition of RECLAIM facilities to a command and control regulatory structure. <i>Michael Morris 909.396.3282; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AQMP
November		
1118*	Control of Emissions from Refinery Flares Proposed Amended Rule 1118 will incorporate revisions to further reduce flaring at refineries, provisions for clean service flares, and facility thresholds. The AB 617 Community Emission Reduction Plan has an emission reduction target to reduce flaring by 50 percent, if feasible. <i>Michael Krause 909.396.2706; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AQMP/ AB 617 CERP
1159.1	Control of NOx Emissions from Nitric Acid Units Proposed Rule 1159.1 will establish requirements to reduce NOx emissions from nitric acid units that will apply to RECLAIM and non-RECLAIM facilities. <i>Michael Morris 909.396.3282; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AQMP/ AB 617 BARCT
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 consistent with AB 617 Community Emission Reduction Plan. <i>Michael Krause 909.396.2706; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other/ AB 617 CERP
Regulation XIII*#	New Source Review Proposed Amended Regulation XIII will revise New Source Review provisions to address facilities that are transitioning from RECLAIM to a command-and-control regulatory structure. Staff may be proposing a new rule within Regulation XIII to address offsets for facilities that transition out of RECLAIM. <i>Michael Morris 909.396.3282; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AQMP

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2021 MASTER CALENDAR *(Continued)*

Month	Title and Description	Type of Rulemaking
December		
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 limit to reflect Best Available Retrofit Control Technology. <i>Michael Krause 909.396.2706; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AQMP/ AB 617 BARCT
1178	Further Reductions of VOC Emissions from Storage Tanks at Petroleum Facilities Proposed Amended Rule 1178 will incorporate the use of more advanced early leak detection methods and improve leak detection and repair programs for storage tanks to further reduce VOC emissions. Proposed amendments will implement one of the actions in the AB 617 Community Emission Reduction Plan. <i>Michael Morris 909.396.3282; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AB 617 CERP
1426.1	Control of Hexavalent Chromium Emissions from Metal Finishing Operations Proposed Rule 1426.1 will reduce hexavalent chromium emissions from chromium tanks used in metal finishing operations that do not have a chromium electroplating or chromic acid anodizing tank. <i>Jillian Wong 909.396.3176; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Toxics
1435 [*]	Control of Emissions from Metal Heat Treating Processes Proposed Rule 1435 will establish requirements to reduce point source and fugitive toxic air contaminants including hexavalent chromium emissions from heat treating processes. Proposed Rule 1435 will also include monitoring, reporting, and recordkeeping requirements. <i>Jillian Wong 909.396.3176; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Toxics/ AB 617 CERP

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

2021 To-Be-Determined

2021	Title and Description	Type of Rulemaking
102	Definition of Terms Proposed amendments may be needed to update and add definitions, and potentially modify exemptions. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
103	Definition of Geographical Areas Proposed amendments are needed to update geographic areas to be consistent with state and federal references to those geographic areas. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
118.1	Local Emergencies Staff is considering a proposed rule to address use of emergency standby engines for essential public services and other similar entities during specific local emergency situations. <i>Jillian Wong 909.396.3176; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
209	Transfer and Voiding of Permits Proposed amendments may be needed to clarify requirements for change of ownership and permits and the assessment of associated fees. <i>Michael Krause 909.396.2706; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
219	Equipment Not Requiring a Written Permit Pursuant to Regulation II Proposed Amendments may be needed to address issues raised by U.S. EPA for approval in the State Implementation Plan. Proposed Amendments may also be needed to identify sources that are currently exempt from permitting. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
222	Filing Requirements for Specific Emission Sources Not Requiring a Written Permit Pursuant to Regulation II Proposed Amendments may be needed to require certain equipment that is currently not permitted to register the equipment to gather information and emissions data. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
223	Emission Reduction Permits for Large Confined Animal Facilities Proposed Amended Rule 223 will seek additional ammonia emission reductions from large confined animal facilities by lowering the applicability threshold. Proposed amendments will implement BCM-04 in the 2016 AQMP. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AQMP
317	Clean Air Act Non-Attainment Fees Proposed amendments may be needed to modify CAA Section 185 fees for non-attainment. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other

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2021 To-Be-Determined (*Continued*)

2021	Title and Description	Type of Rulemaking
407 [#]	Liquid and Gaseous Air Contaminants Proposed Amended Rule 407 will update SOx emission limits to reflect Best Available Retrofit Control Technology, if needed, remove exemptions for RECLAIM facilities, and update monitoring, reporting, and recordkeeping requirements. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AB 617 BARCT
410	Odors from Transfer Stations and Material Recovery Facilities Proposed Amended Rule 410 will clarify existing provisions. Additional provisions may be needed to address activities associated with diversion of food waste to transfer stations or material recovery facilities. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
425	Odors from Cannabis Processing Proposed Rule 425 will establish requirements for control of odors from cannabis processing. <i>Tracy Goss 909.396.3106; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
429	Start-Up and Shutdown Exemption Provisions for Oxides of Nitrogen Proposed amendments to Rule 429 may be needed to incorporate recent policy decisions by U.S. EPA regarding start-up and shutdown provisions. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
431.1 [#]	Sulfur Content of Gaseous Fuels Proposed Amended Rule 431.1 will assess exemptions, including RECLAIM, and update other provisions, if needed. <i>Michael Krause 909.396.2706; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AB 617 BARCT/ AB 617 CERP
431.2 [#]	Sulfur Content of Liquid Fuels Proposed Amended Rule 431.2 will assess exemptions, including RECLAIM, and update other provisions, if needed. <i>Michael Krause 909.396.2706; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AB 617 BARCT/ AB 617 CERP
431.3 [#]	Sulfur Content of Fossil Fuels Proposed Amended Rule 431.3 will assess exemptions, including RECLAIM, and update other provisions, if needed. <i>Michael Krause 909.396.2706; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AB 617 BARCT/ AB 617 CERP

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

2021 To-Be-Determined (*Continued*)

2021	Title and Description	Type of Rulemaking
442.1 1107 1124 1136 1145 1171	Usage of Solvent Coating of Metal Parts and Products Aerospace Assembly and Component Manufacturing Operations Wood Products Coatings Plastic, Rubber, Leather, and Glass Coatings Solvent Cleaning Operations Proposed amendments will prohibit the sale, distribution, and application of materials that do not meet the VOC limits specified in Regulation XI rules and possible provisions to prohibit circumvention of VOC limits. <i>Tracy Goss 909.396.3106; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
462	Organic Liquid Loading Proposed Amended Rule 462 will incorporate the use of advanced techniques to detect fugitive emissions and Facility Vapor Leak. Other amendments may be needed to streamline implementation and add clarity. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
463	Organic Liquid Storage Proposed Amended Rule 463 will address the current test method and improve the effectiveness, enforceability, and clarity of the rule. Proposed amendments may also be needed to ensure consistency with Rule 1178. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
468 [#]	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: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AB 617 BARCT
469 [#]	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: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AB 617 BARCT

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

2021 To-Be-Determined (*Continued*)

2021	Title and Description	Type of Rulemaking
1101 [#]	Secondary Lead Smelters/Sulfur Oxides Proposed Amended Rule 1101 will update SOx emission limits to reflect Best Available Retrofit Control Technology, if needed, remove exemptions for RECLAIM facilities, and update monitoring, reporting, and recordkeeping requirements. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AB 617 BARCT
1105 [#]	Fluid Catalytic Cracking Units SOx Proposed Amended Rule 1105 will update SOx emission limits to reflect Best Available Retrofit Control Technology, if needed, remove exemptions for RECLAIM facilities, and update monitoring, reporting, and recordkeeping requirements. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AB 617 BARCT/ AB 617 CERP
1111	Reduction of NOx Emissions from Natural-Gas-Fired, Fan-Type Central Furnaces Proposed amendments may be needed to address implementation issues. <i>Michael Krause 909.396.2706; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AQMP
1111.1	Zero-Emission Residential Furnaces Proposed Rule 1111.1 may include provisions to encourage zero emission residential furnaces that goes beyond Rule 1111 for gas-fired furnaces. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AQMP
1113	Architectural Coatings Proposed amendments may be needed to clarify applicability of the rule with respect to distribution. <i>Dave DeBoer 909.396.2329; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
1119 [#]	Petroleum Coke Calcining Operations – Oxides of Sulfur Proposed Amended Rule 1119 will update SOx emission limits to reflect Best Available Retrofit Control Technology, if needed, remove exemptions for RECLAIM facilities, and update monitoring, reporting, and recordkeeping requirements. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AB 617 BARCT/ AB 617 CERP
1121*	Control of Nitrogen Oxides from Residential Type, Natural-Gas-Fired Water Heaters Proposed amendments may be needed further reduce NOx emissions from water heaters. <i>Michael Krause 909.396.2706; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AQMP

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2021 To-Be-Determined (*Continued*)

2021	Title and Description	Type of Rulemaking
1121.1	Zero Emission Residential Water Heaters Proposed Rule 1121.1 may include provisions to encourage zero emission water heaters that goes beyond Rule 1121 for gas-fired water heaters. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AQMP
1133.3	Emission Reductions from Greenwaste Composting Operations Proposed Amended Rule 1133.3 will seek additional VOCs and ammonia emission reductions from greenwaste and foodwaste composting. Proposed amendments will implement BCM-10 in the 2016 AQMP. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AQMP
1138	Control of Emissions from Restaurant Operations Proposed Amended Rule 1138 will further reduce emissions from char boilers. <i>Tracy Goss 909.396.3106; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AQMP
1142	Marine Tank Vessel Operations Proposed Amended Rule 1142 will address VOC and hydrogen sulfide emissions from marine tank vessel operations, applicability, noticing requirements, and provide clarifications. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
1146	Emissions of Oxides of Nitrogen from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters Proposed amendments to Rule 1146 may be needed to incorporate comments from U.S. EPA. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
1146.1 [#]	Emissions of Oxides of Nitrogen from Small Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters Proposed amendments to Rule 1146.1 may be needed to clarify provisions for industry-specific categories and to incorporate comments from U.S. EPA. <i>Michael Krause 909.396.2706; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other

* Potentially significant hearing

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

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

2021 To-Be-Determined (*Continued*)

2021	Title and Description	Type of Rulemaking
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 consistent with the AB 617 Community Emission Reduction Plan. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other/ AB 617 CERP
1148.2	Notification and Reporting Requirements for Oil and Gas Wells and Chemical Suppliers Proposed amendments to Rule 1148.2 may be needed to improve notifications of well working activities to the community and to address other issues. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other/ AB 617 CERP
1153.1	Emissions of Oxides of Nitrogen from Commercial Food Ovens Proposed amendments to Rule 1153.1 may be needed to establish NOx BARCT limits for the RECLAIM transition. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	AQMP/ AB 617 BARCT
1166	Volatile Organic Compound Emissions from Decontamination of Soil Proposed Amended Rule 1166 will update requirements, specifically concerning notifications and usage of mitigation plans (site specific versus various locations). <i>Michael Morris 909.396.3282; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
1168	Adhesive and Sealant Applications Staff is considering possible amendments for foam insulation applications. Other amendments may also be needed. <i>Michael Morris 909.396.3282; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
1176	VOC Emissions from Wastewater Systems Proposed Amended Rule 1176 will clarify the applicability of the rule to include bulk terminals under definition of "Industrial Facilities," and streamline and clarify provisions. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other/ AB 617 CERP
1180	Refinery Fenceline and Community Air Monitoring Amendments to Rule 1180 may be needed to provide additional clarity and if Proposed Rule 1180.1 is adopted, provisions may be needed to provide additional clarity. <i>Michael Krause 909.396.2706; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other

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

2021 To-Be-Determined (*Continued*)

2021	Title and Description	Type of Rulemaking
1180.1	Fenceline and Community Monitoring Proposed Rule 1180.1 may establish fenceline and community monitoring requirements for non-petroleum refineries and facilities that are not currently included in Rule 1180 – Refinery Fenceline and Community Air Monitoring. <i>Michael Krause 909.396.2706; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
1403*	Asbestos Emissions from Demolition/Renovation Activities Proposed Amended Rule 1403 will enhance implementation, improve rule enforceability, update provisions, notifications, exemptions, and align provisions with the applicable U.S. EPA National Emission Standard for Hazardous Air Pollutants (NESHAP) and other state and local requirements as necessary. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Toxics
1404	Hexavalent Chromium Emissions from Cooling Towers Amendments may be needed to provide additional clarifications to use of process water that is associated with sources that have the potential to contain chromium in cooling towers. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Toxics
1405	Control of Ethylene Oxide and Chlorofluorocarbon Emissions from Sterilization or Fumigation Processes Amendments may be needed to address ethylene oxide emissions from sterilization of medical equipment. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Toxics
1415 1415.1	Reduction of Refrigerant Emissions from Stationary Air Conditioning Systems, and Reduction of Refrigerant Emissions from Stationary Refrigeration Systems Proposed Amended Rules 1415 and 1415.1 will align requirements with the proposed CARB Refrigerant Management Program and U.S. EPA's Significant New Alternatives Policy Rule provisions relative to prohibitions on specific hydrofluorocarbons. <i>David De Boer 909.396.3229; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other
1420	Emissions Standard for Lead Proposed Amended Rule 1420 will update requirements to address arsenic emissions to close a regulatory gap between Rule 1420 and Rule 1407 - Control of Emissions of Arsenic, Cadmium, and Nickel from Non-Ferrous Metal Melting Operations. Other provisions may be needed to address storage and handling requirements, and revise closure requirements. <i>Michael Morris 909.396.3282; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Toxics

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

2021 To-Be-Determined (*Continued*)

2021	Title and Description	Type of Rulemaking
1420.1	Emission Standards for Lead and Other Toxic Air Contaminants from Large Lead-Acid Battery Recycling Facilities Proposed Amendments are needed to update applicable test methods and provide clarifications regarding submittal of a source-test protocol. Additional amendments may be needed to address monitoring and post closure requirements. <i>Michael Morris 909.396.3282; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Toxics
1420.2	Emission Standards for Lead from Metal Melting Facilities Proposed Amended Rule 1420.2 will update requirements to address arsenic emissions to close a regulatory gap between Rule 1420 and Rule 1407 - Control of Emissions of Arsenic, Cadmium, and Nickel from Non-Ferrous Metal Melting Operations. Additional amendments may be needed to address monitoring and post closure requirements. <i>Michael Morris 909.396.3282; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Toxics
1421	Control of Perchloroethylene Emissions from Dry Cleaning Systems Proposed amendments may be needed to address implementation issues. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Toxics
1450*	Control of Methylene Chloride Emissions Proposed Rule 1450 will reduce methylene chloride emissions from furniture stripping and establish monitoring, reporting, and recordkeeping requirements. <i>Michael Morris 909.396.3282; CEQA: Jillian Wong 909.396.3176; and Socio: Ian MacMillan 909.396.3244</i>	Toxics
1455	Control of Hexavalent Chromium Emissions from Torch Cutting and Welding Proposed Rule 1455 will establish requirements to reduce hexavalent chromium emissions from torch cutting and welding of chromium alloys. <i>Michael Morris 909.396.3282; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Toxics
1460	Control of Particulate Emissions from Metal Cutting and Shredding Operations Proposed Rule 1460 will establish housekeeping and best management practices to minimize fugitive particulate emissions from metal cutting and shredding operations. <i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i>	Other

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

2021 To-Be-Determined (*Continued*)

2021	Title and Description	Type of Rulemaking
1466.1	<p>Control of Particulate Emissions from Demolition of Buildings and Structures with Equipment and Processes with Metal Toxic Air Contaminants</p> <p>Proposed Rule 1466.1 would 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.</p> <p><i>TBD; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i></p>	Toxics
1469*	<p>Hexavalent Chromium Emissions from Chromium Electroplating and Chromic Acid Anodizing Operations</p> <p>Proposed amendments to Rule 1469 may be needed to address use of chemical fume suppressants or other implementation issues.</p> <p><i>Jillian Wong 909.396.3176; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i></p>	Toxics
1472	<p>Requirements for Facilities with Multiple Stationary Emergency Standby Diesel-Fueled Internal Combustion Engines</p> <p>Proposed Amended Rule 1472 will remove provisions that are no longer applicable, update and streamline provisions to reflect the 2015 Health Risk Assessment Guidelines, and assess the need for a Compliance Plans.</p> <p><i>Michael Morris 909.396.3282; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i></p>	Toxics
1480	<p>Toxics Monitoring</p> <p>Proposed amendments to Rule 1480 may be needed to remove fee provisions if they are incorporated in Regulation III.</p> <p><i>Jillian Wong 909.396.3176; CEQA: Jillian Wong 909.396.3176 and Socio: Ian MacMillan 909.396.3244</i></p>	Toxics/ AB 617 CERP
2202*	<p>On-Road Motor Vehicle Mitigation Options</p> <p>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 (AVR) targets.</p> <p><i>Carol Gomez 909.396.3264; CEQA: Jillian Wong 909.396.3176; Socio: Ian MacMillan 909.396.3244</i></p>	Other
Regulation XXIII* ⁺	<p>Facility-Based Mobile Sources</p> <p>Proposed rules within Regulation XXIII would reduce emissions from indirect sources (e.g., mobile sources that visit facilities).</p> <p><i>Ian MacMillan 909.396.3244; CEQA: Jillian Wong 909.396.3176 Socio: Ian MacMillan 909.396.3244</i></p>	AQMP/ Toxics/ AB 617 CERP

* Potentially significant hearing

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

2021 To-Be-Determined (Continued)

2021	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, compliance issues that are raised by the Hearing Board, or regulatory amendments needed as a result of the COVID-19 pandemic. Amendments to existing rules may be needed to address use of materials that contain chemicals of concern. The associated rule development or amendments include, but are not limited to, South Coast AQMD existing, or new rules to implement the 2012 or 2016 AQMP measures. This includes measures in the 2016 AQMP to reduce toxic air contaminants or reduce exposure to air toxics from stationary, mobile, and area sources. Rule adoption or amendments may include updates to provide consistency with CARB Statewide Air Toxic Control Measures, or U.S. EPA's National Emission Standards for Hazardous Air Pollutants. Rule adoption or amendments may be needed to implement AB 617 including but not limited to BARCT rules, Community Emission Reduction Plans prepared pursuant to AB 617, or new or amended rules to abate a public health issue identified through emissions testing or ambient monitoring.	Other/ AQMP/ Toxics/ AB 617 BARCT/ AB 617 CERP

* *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 AQMP in 2020.

Summary of 2016 AQMP Implementation

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

Staff continued working on fulfilling the Governing 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 2020 nine rules (Rules 1110.2, 1117, 1118.1, 1134, 1135, 1146, 1146.1, and 1146.2, and 1179.1) were amended as part of the BARCT implementation. The total emission reductions resulting from these rules are 5.9 tpd which are anticipated to be achieved by 2024 (reductions from Rule 1118.1 are allocated to CMB-03). Furthermore, six additional rules (Rules 1109.1, 1147, 1147.1, 1147.2, 1150.3, and 1159.1) are currently under development and are scheduled for amendment / adoption in calendar year 2021. 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	Commitment		Adopted to be Achieved	
			2023	2031	2023	2031
VOC EMISSIONS						
CTS-01	Further Emission Reductions from Coatings, Solvents, Adhesives, and Sealants [R1168]	2017/2021	1.0	2.0	1.4	--
FUG-01	Improved Leak Detection and Repair	2019	2.0	2.0	--	--
CMB-01	Transition to Zero and Near-Zero Emission Technologies for Stationary Sources	2018	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	2018	0.2	0.3	--	--
BCM-10	Emission Reductions from Greenwaste Composting	2019	1.5	1.8	--	--
MSC-02	Application of All Feasible Measures	TBD	TBD	TBD	0.88*	
TOTAL VOC REDUCTIONS			6.4	9.6	2.4	--

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

Control Measure #	CONTROL MEASURE TITLE	Adoption Date	COMMITMENT		ADOPTED TO BE ACHIEVED	
			2021	2025	2021	2025
PM2.5 EMISSIONS						
BCM-01	Further Emission Reductions from Commercial Cooking	2018	0.0	3.3	--	--
BCM-04	Emission Reductions from Manure Management Strategies [NH3]	2019	0.26	0.2	--	--
BCM-10	Emission Reductions from Greenwaste Composting [NH3]	2019	0.1	0.1	--	--
TOTAL PM2.5 REDUCTIONS			TBD	3.3	--	--
Control Measure #	CONTROL MEASURE TITLE	Adoption Date	COMMITMENT		ADOPTED TO BE ACHIEVED	
			2023	2031	2023	2031
NOx EMISSIONS						
CMB-01	Transition to Zero and Near-Zero Emission Technologies for Stationary Sources	2018	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	2018	0.8	1.6	--	--
CMB-05	Further NOx Reductions from RECLAIM Assessment	2018-2020	0.0	5.0	5.7**	--

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

Control Measure #	CONTROL MEASURE TITLE	Adoption Date	COMMITMENT		ADOPTED TO BE ACHIEVED	
			2023	2031	2023	2031
NOx EMISSIONS (CONTINUED)						
ECC-02	Co-Benefits from Existing Residential and Commercial Building Energy Efficiency Measures	2018	0.3	1.1	0.3***	--
ECC-03	Additional Enhancements in Reducing Existing Residential Building Energy Use	2018	1.2	2.1	--	--
MOB-04	Emission Reductions at Commercial Airports	2019	TBD	TBD	0.5	--
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	TBD	TBD
MOB-14	Emission Reductions from Incentive Programs	Ongoing	11	7.8	7.0	TBD
TOTAL NOx REDUCTIONS			23.1	31.0	13.7	TBD

* 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 1110.2, 1117, 1134, 1135, 1146 series, and 1179.1 (adopted from 2018 to 2020). The actual emission reductions vary depending on the implementation schedule of each rule. However, the actual emission reductions attributable to CMB-05 need to be surplus to the RECLAIM shave as described in the 2015 amendment of Rule 2002. Part of these emission reductions resulting from non-RECLAIM facilities could be used to fulfill 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.

**** 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 South Coast AQMD Governing Board directed staff to pursue regulatory or voluntary approaches for some of the Basin's largest indirect sources: a voluntary Memorandum of Understanding (MOU) approach with marine ports and

commercial airports and regulatory approaches for warehouses/distribution centers, railyards and new and re-development. The MOUs with the marine ports and commercial airports would implement the facility-based mobile source measures MOB-01 and MOB-04 in the 2016 AQMP. The facility-based mobile source measure for commercial airports was adopted at the December 6, 2019 Governing Board meeting, with a projected NO_x emission reductions of 0.52 and 0.37 tpd in 2023 and 2031, respectively. Development of other facility-based measures for the ports, warehouses, railyards, and new and re-development projects pursuant to the 2016 AQMP control measures MOB-01 through MOB-03 and EGM-01 will continue in 2021.

A key element of the 2016 AQMP is to make available private and public funding to help further the development and deployment of the 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, the South Coast AQMD Governing 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's 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 funded. 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 also been developing 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 2020.

TABLE 2
Estimated Emission Reductions Benefits From 2020 Incentive Programs

Program	Funding Amount	Number of Equipment	NOx (tpy)	PM2.5 (tpy)
Carl Moyer & SOON*	\$33,959,122	162	222.1	3.98
Carl Moyer State Reserve*	\$1,086,505	6	3.7	0.12
AB 923 Match Funds*	\$4,618,441	18	6.08	0
FARMER*	\$706,804	2	5.8	0.37
AB 617 Community Air Protection Program (CAPP) Incentives*	\$37,762,509	172	123.4	6
EFMP**	\$13,532,012	1649	4.2	0.26
Voucher Incentive (VIP)	\$2,705,000	63	43.2	0.24
Total	\$94,370,393	2072	408.48	10.97

* Scheduled for Board approval on 1/8/21.

** Data as of 12/4/2020