

ANTELOPE VALLEY AIR QUALITY MANAGEMENT DISTRICT

GOVERNING BOARD REGULAR MEETING

AGENDA

TUESDAY, MARCH 21, 2017 10:00 A.M.

LOCATION AVAQMD District Office 43301 Division Street, Suite 206 Lancaster, CA 93535 661-723-8070

BOARD MEMBERS

Marvin Crist, Chair, City of Lancaster Ron Hawkins, Vice Chair, Los Angeles County Vern Lawson, Los Angeles County Ken Mann, City of Lancaster Steven Hofbauer, City of Palmdale Austin Bishop, City of Palmdale Newton Chelette, Public Member

Call to Order – 10:00 a.m.

Pledge of Allegiance.

Roll Call.

Public Comments on any Agenda Item will be heard at the time of discussion of the Agenda Item. Public Comments not pertaining to Agenda Items will be heard during the PUBLIC COMMENT period, below.

1. PUBLIC COMMENT

CONSENT CALENDAR

The following consent items are expected to be routine and non-controversial and will be acted upon by the Board at one time without discussion unless a Board member, staff member or member of the public requests an item be held for discussion under DEFERRED ITEMS.

- 2. Approve Minutes from Regular Governing Board Meeting of February 21, 2017. Presenter: Crystal Goree.
- 3. Monthly Activity Report. Receive and File. Presenter: Bret Banks.
- 4. Monthly Grant Fund Summary. Receive and File. Presenter: Bret Banks.
- 5. The Financial Report for FY 17, January 2017 is provided to the Governing Board for information concerning the current fiscal status of the District. Presenter: Jean Bracy.
- 6. Approve payment to MDAQMD in the total amount of \$106,110.46, subject to availability of funds, for services provided during the month of January 2017. Presenter: Jean Bracy.
- 7. Amend Governing Board Policy 02-01, "Authority of the Air Pollution Control Officer." Presenter: Bret Banks.

ITEMS FOR DISCUSSION

DEFERRED ITEMS

PUBLIC HEARINGS

8. Conduct a public hearing to consider the adoption of the AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area): a. Open public hearing; b. Receive staff report; c. Receive public testimony; d. Close public hearing; e. Make a determination that the California Environmental Quality Act (CEQA) Categorical Exemption applies; f. Waive reading of Resolution; g. Adopt Resolution making appropriate findings, certifying the Notice of Exemption, adopting the plan and directing staff actions. Presenter: Bret Banks.

NEW BUSINESS

- 9. 1) Approve \$80,000 in Carl Moyer Program and Mobile Source Emissions Reduction Program (AB 923) funds toward continued implementation of the District's Voluntary Accelerated Vehicle Retirement Program (VAVR); and 2) Authorize an extended contract with Environmental Engineering Studies Incorporated (EES); and 3) Authorize the Deputy Director and staff to negotiate target time frames and technical project details and execute an agreement, approved as to legal form by the Office of District Counsel. Presenter: Julie McKeehan.
- 10. 1) Allocate a maximum of \$10,000 from the District's general fund and a maximum of \$10,730 from Mobile Source Emissions Reduction Program AB 923 fund for the 2017 Lawn Mower Exchange Program; and 2) Authorize the Executive Director/ APCO and staff to negotiate target time frames and technical project details and execute an agreement, approved as to legal form by the Office of District Counsel. Presenter: Julie McKeehan.

ADMINISTRATIVE ITEMS

11. <u>Reports</u>:

Governing Board Counsel.

Executive Officer/APCO, Staff.

12. Board Member Reports and Suggestions for Future Agenda Items.

CLOSED SESSION

13. Public Employee Performance Evaluation – Pursuant to Government Code Sections 54954.5 (e) and 54957(b)). Title: Executive Director/APCO

OPEN SESSION

14. Disclosure of any Reportable action taken in Closed Session; and the Vote and Abstention of every Member Present in the Closed Session.

Adjourn to Regular Governing Board Meeting of Tuesday, April 18, 2017.

If you challenge any decision regarding any of the listed proposals in court, you may be limited to raising only those issues you or someone else raised during the public testimony period regarding that proposal, or in written correspondence delivered to the Governing Board at, or prior to, the public hearing.

Due to time constraints and the number of persons wishing to give oral testimony, time restrictions may be placed on oral testimony regarding the above proposals. You may wish to make your comments in writing to assure that you are able to express yourself adequately.

In compliance with the Americans with Disabilities act, if special assistance is needed to participate in the Board Meeting, please contact the Administrative Secretary during regular business hours at 661-723-8070, ext. 1. Notification received 48 hours prior to the meeting will enable the District to make reasonable accommodations.

I hereby certify, under penalty of perjury, that this agenda has been posted 72 hours prior to the stated meeting in a place accessible to the public. Copies of this agenda and any or all additional materials relating thereto are available at the District Office at 43301 Division Street, Suite 206, Lancaster, CA 93535 or by contacting the Administrative Secretary at 661-723-8070, ext. 1 or by email at cgoree@avaqmd.ca.gov Mailed & Posted on: Monday, 3/13/17.

Crystal Goree, Administrative Secretary

ANTELOPE VALLEY AIR QUALITY MANAGEMENT DISTRICT GOVERNING BOARD

******NOTICE OF REGULAR MEETING******

NOTICE IS HEREBY GIVEN that the Governing Board of the Antelope Valley Air Quality Management District (District) will conduct a Regular Meeting on Tuesday, March 21, 2017 at 10:00 a.m.

SAID MEETING will be conducted in the Antelope Valley Air Quality Management District Offices Conference Room, 43301 Division Street, Suite 206, Lancaster, California, 93535. Interested persons may attend and submit oral and/or written comments/statements at the meeting. It is requested that written comments/statements be submitted prior to the meeting.

A copy of the Agenda will be duly posted and may also be reviewed at the office of the Antelope Valley Air Quality Management District, 43301 Division Street, Suite 206, Lancaster, California 93535.

ANTELOPE VALLEY AIR QUALITY MANAGEMENT DISTRICT GOVERNING BOARD

CRYSTAL GOREE <u>ADMINISTRATIVE SECRETARY</u> PHONE: (661) 723-8070, Ext. 1.

Mailed and Posted: Monday, 3/13/17 DATE

ANTELOPE VALLEY AIR QUALITY MANAGEMENT DISTRICT GOVERNING BOARD MEETING TUESDAY, FEBRUARY 21, 2017 ANTELOPE VALLEY DISTRICT OFFICE LANCASTER, CA

MINUTES

Board Members Present:

Marvin Crist, Chair, City of Lancaster Ron Hawkins, Vice Chair, Los Angeles County Vern Lawson, Los Angeles County Newton Chelette, Public Member (Absent Items 1-9) Steve Hofbauer, City of Palmdale Austin Bishop, City of Palmdale Ken Mann, City of Lancaster

CALL TO ORDER

Chair Crist called the meeting to order at 10:00 a.m. Board Member Bishop led the Pledge of Allegiance. Roll call was taken.

PUBLIC COMMENT

Agenda Item #1

None.

<u>CONSENT CALENDAR</u> – Consent items were acted upon by the Board at one time without discussion. Upon Motion by **HOFBAUER**, Seconded by **HAWKINS**, and carried unanimously, the board acted as follows:

Agenda Item #2 - Approve Minutes from Regular Governing Board Meeting of January 17, 2017. Presenter: Crystal Goree. Approved Minutes from Regular Governing Board Meeting of January 17, 2017.

<u>Agenda Item #3 – Monthly Activity Report. Receive and file</u>. Presenter: Bret Banks. Received and filed.

<u>Agenda Item #4 – Monthly Grant Fund Summary. Receive and file</u>. Presenter: Bret Banks. Received and filed.

Agenda Item #5 - The Financial Report for FY 17, November and December 2016 is provided to the Governing Board for information concerning the current fiscal status of the District. Presenter: Jean Bracy. Received and filed. <u>Agenda Item #6 - Approve payment to MDAQMD in the total amount of</u> <u>\$211,232.02, subject to availability of funds, for services provided during the months</u> <u>of November and December 2016</u>. Presenter: Jean Bracy.

Approved payment to MDAQMD in the total amount of \$211,232.02, subject to availability of funds, for services provided during the months of November and December 2016.

ITEMS FOR DISCUSSION

DEFERRED None.

PUBLIC HEARINGS None.

NEW BUSINESS

Agenda Item #7 - Amend Governing Board Procedural Rules to change the time of the regular meetings from 10:30 A.M. to 10:00 A.M. Presenter: Bret Banks. Bret Banks provided background information, staff recommendation and answered questions from Chair Crist. Upon Motion by HOFBAUER, Seconded by MANN, and carried unanimously, the Board amended Governing Board Procedural Rules to change the time of the regular meetings from 10:30 A.M. to 10:00 A.M.

Agenda Item #8 - 1) Authorize \$40,000 in Mobile Emission Reductions Program (AB 2766) funds to the Alternative Fuel Vehicle Program; 2) Authorize change to the program participation limit; and 3) Authorize the Executive Director/APCO and staff to execute the Alternative Fuel Vehicle Program as outlined in the Work Plan. Presenter: Bret Banks.

Bret Banks shared a brief presentation on District grants and the available funding programs, including AB2766, Carl Moyer and AB 923. Mr. Banks provided background information, staff recommendation and answered questions from the Board. Discussion ensued. Board directed staff to send letters to the dealerships, requesting that they remind customers of the available incentives. Upon Motion by LAWSON, Seconded by HOFBAUER, and carried unanimously, the Board authorized \$40,000 in Mobile Emission Reductions Program (AB 2766) funds to the Alternative Fuel Vehicle Program; authorized change to the program participation limit; and authorized the Executive Director/APCO and staff to execute the Alternative Fuel Vehicle Program as outlined in the Work Plan.

Agenda Item #9 – 1) Approve the FY 16-17 Application for Carl Moyer Program Year 19 Funds and authorize its submission to the California Air Resources Board (CARB); 2) Allocate a maximum of \$115,899 of Mobile Source Emissions Reduction Program funds (AB 2766 and/or AB 923) to serve as the required match funding for the Carl Mover Memorial Air Quality Standards Attainment Program (the Carl Moyer Program); and 3) Authorize the Executive Director/APCO and staff to execute the agreement, approved as to legal form, with CARB which binds the parties to the terms and conditions set forth in the application and the current Carl Mover Program Guidelines. Presenter: Julie McKeehan. Julie McKeehan provided background information, staff recommendation and answered questions from Chair Crist. Upon Motion by HAWKINS, Seconded by BISHOP, and carried unanimously, the Board approved the FY 16-17 Application for Carl Moyer Program Year 19 Funds and authorize its submission to the California Air Resources Board (CARB); allocated a maximum of \$115,899 of Mobile Source Emissions Reduction Program funds (AB 2766 and/or AB 923) to serve as the required match funding for the Carl Moyer Memorial Air Quality Standards Attainment Program (the Carl Moyer Program); and authorized the Executive Director/APCO and staff to execute the agreement, approved as to legal form, with CARB which binds the parties to

the terms and conditions set forth in the application and the current Carl Moyer Program Guidelines.

(Clerk's Note: Board Member Newton Chelette arrives here.

PRESENTATION

Agenda Item #10 - The Cities of Lancaster and Palmdale Green Commuter

Vanpool/Charging Station Project. Presenter: Julie McKeehan/Gustavo Occhiuzzo. Julie Mckeehan introduced Gustavo Occhiuzzo. Mr. Occhiuzzo shared information on EVSE in Lancaster and Palmdale, Green Commuter's Seamless Solution. Mr. Occhiuzzo answered questions from the Board. Discussion ensued. Chair Crist directed staff to meet with Mr. Occhiuzzo to discuss and devise a profit sharing agreement for the infrastructure, with the information to be presented to the Board at a future meeting.

NEW BUSINESS - CONTINUED

Agenda Item #11- 1) Award an amount not to exceed \$185,645 in Mobile Source Emission Reductions Program (AB 923) funds to the City of Lancaster toward a proposed Electric Vehicle Vanpool/Charging Stations Project; and 2) Authorize the Executive Director/APCO and staff to negotiate target time frames and technical project details and execute an agreement, approved as to legal form by the Office of District Counsel. Presenter: Julie McKeehan.

Background information presented in Item #10. Upon Motion by **MANN**, Seconded by **HOFBAUER**, and carried unanimously, the Board awarded an amount not to exceed \$185,645 in Mobile Source Emission Reductions Program (AB 923) funds to the City of Lancaster toward a proposed Electric Vehicle Vanpool/Charging Stations Project; and authorized the Executive Director/APCO and staff to negotiate target time frames and technical project details and execute an agreement, approved as to legal form by the

Office of District Counsel, contingent upon a profit sharing agreement being agreed to by Green Commuter and AVAQMD, or other method for the repayment of the grant amounts over time, and also subject to approval by the representatives of the Cities of Lancaster and Palmdale.

Agenda Item #12 - 1) Award an amount not to exceed \$164,928 in Mobile Source Emission Reductions Program (AB 923) funds to the City of Palmdale toward a proposed Electric Vehicle Vanpool/Charging Stations Project; and 2) Authorize the Executive Director/APCO and staff to negotiate target time frames and technical project details and execute an agreement, approved as to legal form by the Office of District Counsel. Presenter: Julie McKeehan.

Background information presented in Item #10. Upon Motion by MANN, Seconded by HOFBAUER, and carried unanimously, the Board awarded an amount not to exceed \$164,928 in Mobile Source Emission Reductions Program (AB 923) funds to the City of Palmdale toward a proposed Electric Vehicle Vanpool/Charging Stations Project; and authorized the Executive Director/APCO and staff to negotiate target time frames and technical project details and execute an agreement, approved as to legal form by the Office of District Counsel, contingent upon a profit sharing agreement being agreed to by Green Commuter and AVAQMD, or other method for the repayment of the grant amounts over time, and also subject to approval by the representatives of the Cities of Lancaster and Palmdale.

PRESENTATION

Agenda Item #13 - Bolthouse Farms Title V Permit Closure. Presenter: Bret Banks. Bret Banks provided a brief update on Bolthouse Farms transition from Title V. Mr. Banks provided information on permitting, AV farming operations, newer, cleaner farming methods and conversion to clean energy. Mr. Banks reported a reduction in active permits, and annual NOx and PM10 emissions, stating that the District is now down to Four (4) Title V Permit holders.

ADMINISTRATIVE ITEMS

<u> Agenda Item #14 - Reports</u>

Governing Board Counsel - Allison Burns reminded Board members to file Form 700.

Executive Director/APCO – Bret Banks reported that the District Budget is up for review in March with the Proposed Budget being presented to the Board on April 14, 2017. The Budget Public Hearing will be conducted in May and the Budget will be voted on in June. Chair Crist directed Bret Banks to prepare Budget presentation for the meeting of March 21, 2017, stating where the District is in comparison to surrounding Districts, in terms of cost. Bret Banks introduced Kathy Hernandez, Student Intern, California State University, Fullerton. Ms. Hernandez is a local resident and will work with the District this Spring.

Bret Banks provided information on the District's Lawn Mower Exchange Program, stating that the Board has offered to provide a lawn mower raffle at the Outlook Conference to help advertise the program. Raffles will also be conducted at the Waste Management Environmental Collection Site in Palmdale, April 15, 2017 and at the Public Works Yard in Lancaster, May 6, 2017.

<u>Agenda Item #15 – Board Member Reports and Suggestions For Future Agenda</u> <u>Items.</u>

None.

The meeting was adjourned at 11:03 a.m. to the next regularly scheduled Governing Board Meeting, Tuesday, March 21, 2017, 10:00 a.m.

Item #3 - Monthly Activity Report - February 2017

	<u>Feb 2017</u>	<u>Feb 2016</u>	<u>YTD (7/1/17)</u>
Complaints	4	3	25
Complaint Investigations	4	3	25
Asbestos Notifications	7	13	23
Asbestos Inspections	0	0	0
Facility Inspections	53	105	223
Facility Inspections Completed (%)	96	87	97
Permit Inspections	128	96	440
Permit Inspections in Compliance (%)	99	96	99
Notice of Violation (NOV)	1	1	9

*Outstanding NOVs

- AV00000187 Issued 1/2016
- AV00000205 Issued 2/2017

Project Comment Letters – February 2017

Attached

		AVAQMD CEQA PROJECTS				
		BOARD MEETING				
		03/21/2017				
Date Rec'd	Location	Project Name	Description	Comment	Date Due	Date Sent
01/30/2017	COL	City of Lancaster	Draft Climate Action Plan	concur	02/13/17	02/10/17
				Rule 403		
		Palmdale Water District		Permits		
		2016 Water System Master	PEIR for 2016 Water System	ARB Const		
02/13/2017	COP	Plan	Master Plan	Equip	03/15/17	02/13/17
			42 MW solar pv project on 107			
			acres at the northeast	DCP		
	County of	5149 Lancaster Energy LLC	intersection of East Avenue H	ARB Const		
02/13/2017	LA	Project	and 50th Street East.	Equip	03/17/17	02/13/17
				DCP		
			Southwest corner of J8 & 20th	ARB Const		
2/16/2017	COL	Storage Facility	West	Equip	03/19/17	03/06/17
			TTM for 169 residential lots and			
			two parks on approx 40.4 acres			
			located on the southeast corner	DCP		
		TTM 71210-Meridian	of Avenue K and 55th Street	ARB Const		
2/22/2017	COL	Development	West	Equip	03/25/17	03/06/17
				DCP		
			Construction of gas station, mini-	Necessary		
			mart and car wash on the	Permits		
			southeast corner of Division	ARB Const		
2/23/2017	COL	Gas Station/Mini-mart	Street and Avenue K	Equip	03/20/17	03/06/17
			Construction of an approx	DCP		
			27,000 additon to existing	ARB Const		
3/1/2017	COL	Sacred Heart	church	Equip	04/02/17	03/06/17

ITEM #4 - MONTHLY GRANT FUND SUMMARY

AB 2766 (\$4 DMV Fee) Annual Allocation for Mobile Projects	\$407,605.00
AB 923 (\$2 DMV Fee) Annual Allocation for Mobile Projects	\$545,000.00

AB 2766 & AB 923 CURRENT BALANCES

AB 2766 PROJECT & ADMIN. FUNDS

Action Date	Project Name	Approved Action	
Mar-14	AFV Program Add'l Funds AV0314#12	-100000.00	paid
Mar-14	Sommer Haven Ranch International AV0314#15	-25000.00	paid
Mar-14	Hemme Hay & Feed (2) Retrofit Project AV0314#10	-16337.00	paid
Mar-14	AVC Equipment Replacement AV0314#14	-26160.00	paid
Mar-14	AFV Program Add'l Funds AV0414#11	-61200.92	paid
Apr-14	Antelope Valley Fair Assoc. CNG Bus Engine Repair AV0414#10	-11193.96	paid
Apr-14	AFV Program Add'l Funds AV0414#11	-101524.52	paid
Jun-14	AFV Program Add'l Funds AV0414#11	-24742.69	paid
May-14	Antelope Valley Mall Electric Infrastructure AV0514#13	-45817.00	paid
Jul-14	Antelope Valley HSD AV0714#9	-13500.00	paid
Jul-14	City of Palmdale Electric Infrastructure AV0714#10	-49729.00	paid
Aug-14	AFV Program Add'l Fnds AV0414#11	-14425.00	paid
Aug-14	AVEK Water Agency AV0814#9	-12000.00	paid
Aug-14	Yates Trucking Inc. AV0814#10	-15761.00	paid
Dec-14	City of Lancaster Traction Seal Project AV1214#9	-200000.00	paid
Jan-15	R & R Pipeline, Inc. Grant Funds Returned	20700.00	rec'd
Jan-15	AFV Program Add'l Funds AV0414#11	-17000.00	paid
Mar-15	Projected AFV applications for 2015	-60000.00	paid
Apr-15	Return of Truck Retrofit Funds	6718.00	rec'd
Jun-15	AVTA - Public Transit Programs AV0615#11 /0715#S-1	-178000.00	paid
Oct-15	AFV Program Add'l Funds AV0414#11	-14000.00	paid
Feb-16	LA County Sheriff's Alt. Patrol Project AV0216#9	-50000.00	paid
Mar-16	AVC Equipment Replacement AV0314#14	-1886.00	paid
Mar-16	AVLAW, LLC EV Charging Repair AV0316#11	-2117.00	paid
Apr-16	AV Produce TRU Replacement Project AV0416#12	-16203.00	paid
Apr-16	LA County Sheriff's Bio Diesel Truck Project AV0416#11	-50000.00	paid
Jul-16	City of Palmdale Electric Infrastructure ADA Req AV0716#10	-59700.00	paid
Aug-16	AFV Program Add'l Funds AV0816#9	-34500.00	paid
Aug-16	AVC Free Fare Pilot Program for Students AV0816#7	-30000.00	paid
Sep-16	LA Cty Sheriff's Bike Patrol Proj. Palmdale/Lancaster AV0916#11	-35143.00	pending
Sep-16	AVTA - Public Transit Programs AV0916#8	120000.00	pending
Dec-16	AVC Bus Transfer & Repair to AVSTA AV1216#12	-5794.00	pending
Feb-17	AFV Program Add'l Funds AV0117#	-40000.00	pending
AB 2766 PR	DJECTS CURRENT BALANCE	\$350,279.65	•
Action Date	Project Name	Pending Action	
Mar-17	VAVR Program - Admin. to EES AV0317#	-60000.00	-
AB 2766 PR	DJECTS BALANCE PENDING APPROVAL	\$290,279.65	-

AB 2766 PROJECTS BALANCE PENDING APPROVAL

AB 923 PROJECT & ADMIN. FUNDS

Action Date Proiect Name

Auton Dute	r lojeet hame
Jun-14	VAVR Program - Admin. to EES AV0614#11
Nov-14	AVSTA CNG Tank Replacement AV1114#8
Dec-14	VAVR Program - Admin to EES AV1214#8
Jan-15	AVSTA CNG School Bus Purchase AV0115#7
Apr-15	Calandri SonRise Farms ERP Project #3 AV0415#8
May-15	Gene Wheeler Farms ERP Project #2 AV0515#10
Aug-15	VAVR Program - Projects & Admin. to EES AV0815#6
Nov-15	Calandri SonRise Farms Repower Project #4 AV1115#9
Jan-16	Antelope Valley Farming ERP Project #1 AV0116#8
Mar-16	Ebee Streetlight EV Charging Project AV0316#10
Apr-16	VAVR Program - Admin to EES AV0416#10
Aug-16	Calandri SonRise Farms Harvesting Project AV0816#8
Oct-16	Antelope Valley Farming ERP Project #2 AV1016#10
Dec-16	AVSTA CNG Tank Replacement AV1216#11
Dec-16	SCE Charge Ready Pilot Project AV1216#10
Feb-17	City of Pamdale Vanpool/Infrastructure Project Phase I AV0117#12
Feb-17	City of Lancaster Vanpool/Infrastructure Project Phase I AV0117#11
AB 923 PRO	JECTS CURRENT BALANCE
Action Date	Project Name
Mar-17	2017 Lawn Mower Exchange Program
AB 923 PRO	JECTS BALANCE PENDING APPROVAL
Action Date	Project Name
Feb-17	City of Pamdale Vanpool/Infrastructure Project Phase II AV0117#12
Feb-17	City of Lancaster Vanpool/Infrastructure Project Phase II AV0117#11
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CARL MOYE	R PROGRAM PROJECT FUNDS
Mar-15	Carl Mover Prog. Funds Year 17 Awarded to AVAQMD
Mar-15	Carl Mover Interest (FY 13-14) added to Year 16
Apr-15	Calandri SonRise Farms ERP Project #3 AV0415#8
, Apr-15	High Desert Dairy ERP Project #3 AV0415#7
Nov-15	Bill's Landscaping ERP Project #1 AV1115#7
Nov-15	Gall Brothers Engineering ERP Project #1 AV1115#8
Feb-16	MDAQMD Year 16 Transfer AV0216#7
Mar-16	High Desert Dairy ERP Project #4 AV0316#8
Mar-16	Calandri SonRise Farms ERP Project #5 AV0316#9
Mar-15	Carl Moyer Prog. Funds Year 18 Awarded to AVAQMD
Apr-16	Lane Ranch & Co. ERP Project AV0416#8
Apr-16	Bill's Landscaping ERP Project #2 AV0416#9
Jun-16	Calandri SonRise Farms Forklift Project #6 AV0616#8
Jun-16	Antelope Valley Fair Assoc. Forklift Project AV0616#9
Jul-16	Bolthouse ERP Project AV0716#11

Jul-16 South Pac Industries ERP Project AV0716#9 Sep-16 High Desert Dairy ERP Project #4 AV0916#9 Sep-16 Gall Brothers Engineering ERP Project #2 AV0916#10

Oct-16 Antelop Valley Farming ERP Project #2 AV1016#10

CARL MOYER PROJECTS CURRENT BALANCE

Action Date Project Name

Feb-17 Carl Moyer Prog. Funds Year 19 Tentative Allocation Mar-17 High Desert Dairy ERP Project #6 AV0316#

CARL MOYER PROJECTS BALANCE PENDING APPROVAL

Approved Action -25000.00 paid -31459.00 paid -25000.00 paid -100000.00 paid -78372.75 paid -142010.00 paid -60000.00 paid -116471.00 paid -181530.00 paid -25000.00 pending -60000.00 paid -406,065.00 pending -12,940.38 paid -63,377.00 pending -48,819.20 pending -82,464.00 pending -92,822.50 pending \$46,909.36 Pending Action -10,730 \$36,179.36 **Pending Action** -82,464.00 payout 9/17 -92,822.50 payout 9/17 637511.00 recv'd 834.45 recv'd -284211.25 paid -134239.00 paid -78873.00 paid -138715.00 paid 324480.00 recv'd -139,224.00 paid -83,983.00 paid 659588.00 recv'd -99,989.56 paid -79,916.00 paid -60,985.00 paid -51,460.00 paid

\$1,495.00 Pending Action

-18,927.00 paid -181,114.00 paid

-158,663.00 paid

-77,896.00 paid

-34,943.62 paid

751,404.00 -\$170,159.00

\$582,740.00

MINUTES OF THE GOVERNING BOARD OF THE ANTELOPE VALLEY AIR QUALITY MANAGEMENT DISTRICT LANCASTER, CALIFORNIA

AGENDA ITEM 5

DATE: March 21, 2017

RECOMMENDATION: Receive and file.

SUMMARY: The Financial Report for FY 17, January 2017 is provided to the Governing Board for information concerning the current fiscal status of the District.

BACKGROUND: The Financial Reports provide financial and budget performance information and reflects the business activities of the District for the period referenced. Staff is available to answer questions as needed.

BALANCE SHEET – The Balance Sheet is a "snapshot" of the District's resources, shown per fund. The Change in Net Position indicates the dynamic status of revenue and expenses for the period; it does not reflect the District's cash position.

STATEMENT OF REVENUES & EXPENDITURES – This report describes the financial activities only for the month for each of the District's funds and does not reflect the District's cash position.

STATEMENTS OF ACTIVITY (for all District funds) – The target variances January 2017 is 58% of Fiscal Year 2017.

- *District Wide* reports the expenses paid directly from the District's operating account and grant funds. Negative amounts usually indicate expenses made from accumulated grant funds. "Adjustments to Revenue" usually reflects the cancellation of permits. "Permitting" revenue represents invoices issued for annual permit renewals and always assumes the expectation of revenue for those facilities with valid operating permits. Cancelling permits impacts the expected revenue.
- *Contracted Services* reports the expenses made by the contractor (MDAQMD) and passed through to the District.
- *Report Recap* is the consolidated report which reflects the revenues received and expenses made during the period and year to date against the adopted budget for FY 17. The line item Program Costs includes those payments made from the District's grant funds (AB 2766, AB 923, and Carl Moyer Fund).

cc: Jean Bracy Laquita Cole Michelle Powell

MINUTES OF THE GOVERNING BOARD OF THE ANTELOPE VALLEY AIR QUALITY MANAGEMENT DISTRICT LANCASTER, CALIFORNIA

AGENDA ITEM 5

BANK REGISTER WELLS FARGO OPERATING – This report lists the deposits to and payments made from the District's primary operating account which is deposited at Wells Fargo Bank. Periodically the account is reimbursed from the funds on deposit with the Los Angeles County Auditor/Controller.

BANK REGISTERS LA COUNTY: GENERAL FUND, AB 2766 U5R, LA COUNTY AB 923, and LA COUNTY CARL MOYER U5S – These reports list deposits to and payments made from the District's Grant Fund Accounts, held in trust at the Los Angeles County Auditor/Controller. The items from the Grand Fund accounts are the activity are shown on the Statement of Activity as "Program Costs."

DISTRICT CARDS – This report shows the purchases made using the District's Mastercard for the referenced period(s).

REASON FOR RECOMMENDATION: Receive and file.

REVIEW BY OTHERS: This item was reviewed by Allison Burns, Special Counsel as to legal form and by Bret Banks, Executive Director/APCO (AVAQMD) on or about March 8, 2017.

FINANCIAL DATA: No change in appropriation is required at this time.

PRESENTER: Jean Bracy, Deputy Director – Administration

Antelope Valley AQMD Balance Sheet - Governmental Funds

As of January 31, 2017

Financial Report

	<u>General</u> <u>Fund</u>	AB2766 Mobile Emissions	AB923 Mobile Emissions	<u>Carl</u> <u>Moyer</u>	<u>Total</u>
Assets					
Current Assets					
Cash	1,136,285.69	427,540.46	958,276.14	158,059.87	2,680,162.16
Cash Held For Other Fund	17,371.51	7,412.38	(11,517.69)	(13,266.20)	0.00
Receivables	68,233.63	0.00	0.00	0.00	68,233.63
Pre-Paids	5,112.42	0.00	0.00	0.00	5,112.42
Total Current Assets	1,227,003.25	434,952.84	946,758.45	144,793.67	2,753,508.21
Total Assets	1,227,003.25	434,952.84	946,758.45	144,793.67	2,753,508.21
Liabilities and Net Position					
Current Liabilities					
Payables	527,653.40	0.00	7,990.57	25,466.84	561,110.81
Due to Others	840.00	0.00	0.00	0.00	840.00
Unearned Revenue	0.00	0.00	0.00	559,949.99	559,949.99
Total Current Liabilities	528,493.40	0.00	7,990.57	585,416.83	1,121,900.80
Restricted Fund Balance	0.00	566,746.99	853,660.32	(257,788.23)	1,162,619.08
Cash Reserves	370,000.00	0.00	0.00	0.00	370,000.00
Unassigned Fund Balance	262,981.65	0.00	0.00	0.00	262,981.65
Pre-Paid	5,112.42	0.00	0.00	0.00	5,112.42
Change in Net Position	60,415.78	(131,794.15)	85,107.56	(182,834.93)	(169,105.74)
Total Liabilities & Net Position	1,227,003.25	434,952.84	946,758.45	144,793.67	2,753,508.21

Page: 1

Antelope Valley AQMD Statement of Revenues & Expenditures

For the Period Ending January 31, 2017

Financial Report	<u>General</u> <u>Fund</u>	<u>AB2766 Mobile</u> <u>Emissions</u> <u>Program</u>	<u>AB923 Mobile</u> <u>Emissions</u> <u>Program</u>	<u>Carl</u> <u>Moyer</u> Program	<u>Total</u> <u>Governmental</u> <u>Funds</u>
Revenues					
Application and Permit Fees	119,930.87	0.00	0.00	0.00	119,930.87
AB 2766 and Other Program Revenues	57,798.81	31,058.31	44,351.90	51,460.00	184,669.02
Fines	31,825.00	0.00	0.00	0.00	31,825.00
Investment Earnings	218.33	98.30	240.67	183.17	740.47
Federal and State	0.00	0.00	0.00	0.00	0.00
Miscellaneous Income	0.00	0.00	0.00	0.00	0.00
Total Revenues	209,773.01	31,156.61	44,592.57	51,643.17	337,165.36
Expenditures					
Program Staff	86,097.80	0.00	1,649.47	4,886.48	92,633.75
Services and Supplies	30,437.43	89,143.00	13,000.00	55,405.00	187,985.43
Contributions to Other Participants	0.00	0.00	0.00	0.00	0.00
Capital Outlay Improvements and Equipment	390.88	0.00	0.00	0.00	390.88
Total Expenditures	116,926.11	89,143.00	14,649.47	60,291.48	281,010.06
Excess Revenue Over (Under) Expenditures	92,846.90	(57,986.39)	29,943.10	(8,648.31)	56,155.30

Page: 1

Run: 3/07/2017 at 7:24 AM Antelope Valley AQMD Statement of Activity - MTD, MTM and YTD For 1/31/2017						Page
00 District Wide		M-T-D Actual	Y-T-D Actual	Y-T-D Budget	% Budget to Actual	
	Davaaaa					
	Revenues	117 0/1 97	450 000 00	614 490 00	(0.75)	
	Permilling	117,941.07	400,200.00	0 14,400.00	(0.75)	
	Programs Povonuo Othor	104,009.02	1,400,223.07	2,390,005.00	(0.02)	
	Application Foos	1 980 00	997.30 27 713 00	47 500 00	(0.58)	
	Application rees	1,909.00	27,713.00	47,500.00	(0.36)	
	Sidle Revenue	0.00	50,517.12	35,000.00	(0.24)	
	I lites & Felialites	740.47	12 252 38	13 300 00	(1.31)	
	Adjustments to Revenue	0.00	(3 /75 57)	13,300.00	0.00	
	Total Revenues	337.165.36	2.067.508.21	3.232.345.00	(0.64)	
	_	,	,,	-, - ,		
	<u>Expenses</u>	(0.000.07	= ((00 00	~		
	Office Expenses	12,033.37	54,169.96	90,180.00	0.60	
	Communications	1,589.07	11,598.97	23,500.00	0.49	
	Vehicles	/68.//	5,731.26	9,500.00	0.60	
	Program Costs	157,548.00	1,371,502.54	1,637,438.00	0.84	
	Travel	699.00	4,629.60	6,500.00	0.71	
	Professional Services		10 500 00	10 000 00		
	Financial Audit & Actuarial Svcs	0.00	12,500.00	12,000.00	1.04	
	Research Studies	0.00	0.00	6,000.00	0.00	
	Consulting Fees	59.60	3,474.60	3,000.00	1.16	
	Stipends	600.00	2,800.00	8,400.00	0.33	
	Maintenance & Repairs	225.00	3,310.00	7,000.00	0.47	
	Non-Depreciable Inventory	0.00	6,322.33	6,300.00	1.00	
	Dues & Subscriptions	0.00	6,815.90	10,500.00	0.65	
	Legal	1,325.00	11,189.75	17,000.00	0.66	
	Miscellaneous Expense	51.79	482.28	800.00	0.60	
	Capital Expenditures	0.00	0.00	10,000.00	0.00	
	Total Expenses	174,899.60	1,494,527.19	1,848,118.00	0.81	
	Program Staff					
	Program Staff	0.00	0.00	94,227.00	0.00	
	Total Program Staff	0.00	0.00	94,227.00	0.00	
	Excess Revenue Over (Under) Expenditures	162,265.76	572,981.02	1,290,000.00	(0.44)	

Run: 3/07/2017 at 7:24 AM Antelope Valley AQMD Statement of Activity - MTD, MTM and YTD For 1/31/2017						Page: 2
10 Contracted Services		M-T-I Actua	D Y-T-E al Actua) Y-T-E I Budge	D % Budge tt to Actua	t I
	Revenues					
	Expenses Office Expenses Vehicles Travel Professional Services Payroll Contract Financial Audit & Actuarial Svcs Maintenance & Repairs Non-Depreciable Inventory Capital Expenditures	33.56 0.00 21.16 13,031.11 0.00 0.00 <u>39088</u>	857.56 0.00 355.28 75.13 91,717.36 333.33 48.38 390.88	6,200.00 500.00 3,000.00 155,635.00 0.00 13,000.00	0.14 0.00 0.12 0.25 0.59 0.00 0.00 0.00	
	Total Expenses Program Staff	13,476.71	93,777.92	178,635.00	0.52	
	Program Staff	92,633.75	648,308.84	1,111,365.00	0.58	
	Total Program Staff	92,633.75	648,308.84	1,111,365.00	0.58	
	Excess Revenue Over (Under) Expenditures	(106,110.46)	(742,086.76)	(1,290,000.00)	(0.58)	

Run: 3/07/2017 at 7:24 AM Antelope Valley AQMD Statement of Activity - MTD, MTM and YTD For 1/31/2017						Page:
Report Recap		M-T-D Actual	Y-T-D Actual	Y-T-D Budget	% Budget	
		, local	/ lotadi	Dudgot		
	Revenues					
	Permitting	117,941.87	458,280.03	614,480.00	(0.75)	
	Programs	184,669.02	1,488,223.87	2,396,065.00	(0.62)	
	Revenue - Other	0.00	997.38	0.00	0.00	
	Application Fees	1,989.00	27,713.00	47,500.00	(0.58)	
	State Revenue	0.00	30,517.12	126,000.00	(0.24)	
	Fines & Penalties	31,825.00	53,000.00	35,000.00	(1.51)	
	Interest Earned	740.47	12,252.38	13,300.00	(0.92)	
	Adjustments to Revenue	0.00	(3,475.57)	0.00	0.00	
	Total Revenues	337,165.36	2,067,508.21	3,232,345.00	(0.64)	
	Expenses					
	Office Expenses	12.066.93	55,027.52	96,380.00	0.57	
	Communications	1,589.07	11,598.97	23,500.00	0.49	
	Vehicles	768.77	5,731.26	10,000.00	0.57	
	Program Costs	157,548.00	1,371,502.54	1,637,438.00	0.84	
	Travel	699.00	4,984.88	9,500.00	0.52	
	Professional Services					
	Payroll Contract	21.16	75.13	300.00	0.25	
	Financial Audit & Actuarial Svcs	13,031.11	104,217.36	167,635.00	0.62	
	Research Studies	0.00	0.00	6,000.00	0.00	
	Consulting Fees	59.60	3,474.60	3,000.00	1.16	
	Stipends	600.00	2,800.00	8,400.00	0.33	
	Maintenance & Repairs	225.00	3,643.33	7,000.00	0.52	
	Non-Depreciable Inventory	0.00	6,370.71	6,300.00	1.01	
	Dues & Subscriptions	0.00	6,815.90	10,500.00	0.65	
	Legal	1,325.00	11,189.75	17,000.00	0.66	
	Miscellaneous Expense	51.79	482.28	800.00	0.60	
	Capital Expenditures	390.88	390.88	23,000.00	0.02	
	Total Expenses	188,376.31	1,588,305.11	2,026,753.00	0.78	
	Program Staff					
	Program Staff	92,633.75	648,308.84	1,205,592.00	0.54	
	Total Program Staff	92,633.75	648,308.84	1,205,592.00	0.54	
	Excess Revenue Over (Under) Expenditures	56,155.30	(169,105.74)	0.00	0.00	

Run: 3/06/2017 at 3:17 PM

Antelope Valley AQMD Bank Register from 1/01/2017 to 1/31/2017

Wells Fargo Operating

	_				Account
<u>Check/Ref</u>	<u>Date</u>	Name/Description	<u>Check Amount</u>	<u>Deposit Amount</u>	<u>Balance</u>
0000242	1/03/2017	Credit Card Transaction - NRG Oasis	0.00	575.00	93,893.73
0003090	1/06/2017	[01148] ANTELOPE VALLEY PRESS-Legal notices Dec 2016	893.25	0.00	93,000.48
0003091	1/06/2017	[10006] BANK OF THE WEST-Dec 2016 CC Charges	448.59	0.00	92,551.89
0003092	1/06/2017	[10405] CANON FINANCIAL SERVICES-Copier Lease Jan 2017	396.13	0.00	92,155.76
0003093	1/06/2017	[10430] DOMINION ENERGY-Refund: Invoice 29994	21.00	0.00	92,134.76
0003094	1/06/2017	[10023] LOS ANGELES COUNTY CLERK-Amendment of Federal Negative Declaration	75.00	0.00	92,059.76
0003095	1/06/2017	[10039] SPARKLETTS-Water delivery service Dec 2016	11.25	0.00	92,048.51
0003096	1/06/2017	[10043] THE GAS CO-Gas service Dec 2016	122.32	0.00	91,926.19
0003097	1/06/2017	[10063] VOYAGER FLEET SYSTEMS-Fuel card charges Dec 2016	283.60	0.00	91,642.59
0003098	1/06/2017	[10050] WOELFL FAMILY TRUST-Office Lease January 2017	4,330.76	0.00	87,311.83
0003031	1/06/2017	[10023] LOS ANGELES COUNTY CLERK-Void check 0003031	0.00	75.00	87,386.83
0003099	1/06/2017	[10023] LOS ANGELES COUNTY CLERK-Amendment of Federal Negative Declaration	75.00	0.00	87,311.83
0003099	1/06/2017	[10023] LOS ANGELES COUNTY CLERK-Void check 0003099	0.00	75.00	87.386.83
R17-04	1/06/2017	Op Fund Rep #4	0.00	158,313.38	245,700.21
0000243	1/06/2017	Credit Card Transaction - Solar Star CA	0.00	575.00	246.275.21
0000243	1/11/2017	Credit Card Transaction - NASA	0.00	156.56	246,431,77
	1/11/2017	Service Charge	51.79	0.00	246.379.98
0000243	1/13/2017	Credit Card Transaction - NRG Solar	0.00	1.150.00	247.529.98
0000243	1/18/2017	Credit Card Transaction - Forest City	0.00	664.48	248,194,46
0003100	1/20/2017	[10076] ANTELOPE VALLEY AQMD-Wells Fargo ACH Transactions - December 2016	386.85	0.00	247,807.61
0003101	1/20/2017	[10518] AUSTIN BISHOP-GB Mtg 1/17/17	100.00	0.00	247.707.61
0003102	1/20/2017	[10008] BURKEY COX EVANS & BRADFORD-Prep and File Annual Controllers Report	500.00	0.00	247,207.61
0003103	1/20/2017	[10055] NEWTON CHELETTE-GB Mtg 1/17/17	100.00	0.00	247.107.61
0003104	1/20/2017	[10016] COUNTY OF LOS ANGELES-Bank Service Charges July 2016 - Sept 2016	41.30	0.00	247,066.31
0003105	1/20/2017	[10057] MARVIN CRIST-GB Mtg 1/17/17	100.00	0.00	246.966.31
0003106	1/20/2017	[10502] DIGITAL DEPLOYMENT INC-Web Hosting 01/19/17 - 02/18/17	200.00	0.00	246,766,31
0003107	1/20/2017	[10059] ENTERPRISE FLEET MANAGEMENT-Fleet Maintenance Charges Jan 2017	32.00	0.00	246,734.31
0003108	1/20/2017	[10058] RONALD HAWKINS-GB Mtg 1/17/17	100.00	0.00	246.634.31
0003109	1/20/2017	[10503] STEVEN D HOFBAUER-GB Mtg 1/17/17	100.00	0.00	246,534,31
0003110	1/20/2017	[10071] MAIL FINANCE-Postage Meter Rental Feb 2017	94.46	0.00	246,439,85
0003111	1/20/2017	[10026] MOJAVE DESERT AOMD-Invoices 41380, 41398	212.857.16	0.00	33,582,69
0003112	1/20/2017	[10260] QCS BUILDING SERVICES-Invoices 15684, 15750	352.06	0.00	33,230,63
0003113	1/20/2017	000691 SOUTHERN CALIFORNIA EDISON-Electric Service Jan 2017	389.87	0.00	32,840,76
0003114	1/20/2017	[10039] SPARKLETTS-Water delivery service	73.83	0.00	32,766,93
0003115	1/20/2017	[10455] STRADLING YOCCA CARLSON & ROTH-Legal Counsel Services	1,250.00	0.00	31,516,93
		through11/30/16	.,200.00	0.00	0.,010.00
0003116	1/20/2017	[10389] ANGELA UNDERWOOD - JACOBS-GB Mtg 1/17/17	100.00	0.00	31,416.93
0003117	1/20/2017	[10045] VERIZON BUSINESS-VOIP/ Internet Service Jan 2017	1,362.25	0.00	30,054.68

Page:

Run: 3/06/2017 at 3:17 PM		Antelope Valley AQMD Bank Register from 1/01/2017 to 1/31/2017			Page: 2
		Wells Fargo Operating			
Check/Ref	Date	Name/Description	Check Amount	<u>Deposit Amount</u>	<u>Account</u> Balance
0003118	1/20/2017	[10046] VERIZON CALIFORNIA-Long Distance Charges	26.81	0.00	30,027.87
R17-05	1/20/2017	Op Fund Rep #5	0.00	218,166.59	248,194.46
0003119	1/25/2017	[10076] ANTELOPE VALLEY AQMD-Credit Card Transactions - December 2016	3,118.72	0.00	245,075.74
0003120	1/25/2017	[10003] ANTELOPE VALLEY COLLEGE FOUNDATION-Issue a check in the amount of \$1,000 to the Antelope Valley College Foundation as a contribution to the AVAQMD Scholarship Endowment.	1,000.00	0.00	244,075.74
0003121	1/25/2017	[10050] WOELFL FAMILY TRUST-Office Lease February 2017	4,330.76	0.00	239,744.98
		Total for Report:	233,324.76	379,751.01	

Run: 3/06/20	17 at 3:16 PM	Ante Bank Registe	Plope Valley AQMD or from 1/01/2017 to 1/31/2017			Page:
			bunty General Fund P6A			A
<u>Check/Ref</u>	Date	Name/Description		Check Amount	Deposit Amount	<u>Account</u> Balance
	1/01/2017	Interest Earned		0.00	218.33	1,071,718.07
0000241	1/03/2017	Daily Deposit		0.00	4,113.96	1,075,832.03
R17-04	1/06/2017	Op Fund Rep #4		158,313.38	0.00	917,518.65
0000242	1/06/2017	Daily Deposit		0.00	12,770.78	930,289.43
R17-05	1/20/2017	Op Fund Rep #5		218,166.59	0.00	712,122.84
0000243	1/23/2017	Daily Deposit		0.00	170,682.33	882,805.17
0082804	1/30/2017	Transfer AB2766 - November 2016		31,058.31	0.00	851,746.86
0082805	1/30/2017	Transfer AB923 - November 2016		44,351.90	0.00	807,394.96
0000244	1/31/2017	Daily Deposit		0.00	13,885.09	821,280.05
0000245	1/31/2017	Daily Deposit		0.00	31,663.47	852,943.52
			Total for Report:	451,890.18	233,333.96	

Run: 3/06/2017 at 3:16 PM Antelope Valley AQMD Bank Register from 1/01/2017 to 1/31/2017 LA County AB2766 U5R				Page: 1	
Check/Ref	Date	Name/Description	Check Amount	Deposit Amount	<u>Account</u> Balance
	1/01/2017	Interest Farned	0.00	98.30	485.625.15
M17-33	1/11/2017	[10514] CRIMIN, SUSAN L-AB2766 Grant	1.000.00	0.00	484.625.15
M17-35	1/11/2017	[10515] TAYLOR, DANIEL-AB2766 Grant	1,000.00	0.00	483,625.15
M17-36	1/11/2017	[10516] CLARK, MARSHALL-AB2766 Grant	1,000.00	0.00	482,625.15
M17-37	1/11/2017	[10517] RODRIGUEZ, MICHAEL-AB2766 Grant	1,000.00	0.00	481,625.15
M17-40	1/19/2017	[10460] ANTELOPE VALLEY SHERIFFS BOOSTERS-AB2766 Grant	50,000.00	0.00	431,625.15
M17-41	1/19/2017	[10460] ANTELOPE VALLEY SHERIFFS BOOSTERS-AB2766 Grant	35,143.00	0.00	396,482.15
0082804	1/30/2017	Transfer AB2766 - November 2016	0.00	31,058.31	427,540.46
		Total for Report:	89,143.00	31,156.61	

Run: 3/06/2017 at 3:16 PM Antelope Valley AQMD Bank Register from 1/01/2017 to 1/31/2017 LA County_AB923				Page: 1	
Check/Ref	Date	Name/Description	Check Amount	Deposit Amount	<u>Account</u> Balance
	1/01/2017	Interest Earned	0.00	240.67	926,924.24
M17-38	1/11/2017	[10084] ENVIRONMENTAL ENGINEERING STUDIES VAVR-AB923 Grant	7,000.00	0.00	919,924.24
M17-39	1/11/2017	[10084] ENVIRONMENTAL ENGINEERING STUDIES VAVR-AB923 Grant	6,000.00	0.00	913,924.24
0082805	1/30/2017	Transfer AB923 - November 2016	0.00	44,351.90	958,276.14
		Total for Report:	13,000.00	44,592.57	

Run: 3/06/2017 at 3:16 PM Antelope Valley AQMD Bank Register from 1/01/2017 to 1/31/2017 LA County Carl Moyer U5S			Page: ´		
Check/Ref	Date	Name/Description	Check Amount	Deposit Amount	<u>Account</u> Balance
	1/01/2017	Interest Earned	0.00	183.17	213,464.87
C17-15	1/11/2017	[10084] ENVIRONMENTAL ENGINEERING STUDIES VAVR-Moyer Grant	2,055.00	0.00	211,409.87
C17-16	1/11/2017	[10084] ENVIRONMENTAL ENGINEERING STUDIES VAVR-Mover Grant	1,890.00	0.00	209,519.87
C17-17	1/11/2017	[10233] ANTELOPE VALLEY FAIR ASSN-Moyer Grant	51,460.00	0.00	158,059.87
		Total for Report:	55,405.00	183.17	

Run: 3/06/20	17 at 3:15 PM	Antelope Valley AQMD Bank Register from 1/01/2017 to 1/31/2017			Page:
		District Cards			
Check/Ref	Date	Name/Description	Check Amount	<u>Deposit Amount</u>	<u>Account</u> Balance
0000120	1/10/2017	[10069] BRET BANKS-Monthly lease payment for storage unit for long term storage of District documents and records.	139.00	0.00	-126.49
0000121	1/10/2017	[10069] BRET BANKS-Purchase of sandwiches for the annual Compliance Section 2016 evalaution and 2017 expectation/goal meeting.	70.78	0.00	-197.27
0000122	1/10/2017	[10069] BRET BANKS-Purchase of drinks and items to support the annual Compliance Section 2016 evaluation and 2017 expectation/goal meeting.	24.11	0.00	-221.38
0000123	1/10/2017	[10070] BARBARA LODS-Annual fire extinguisher recharge	60.00	0.00	-281.38
0000124	1/10/2017	[10440] MCKEEHAN, JULIE-2017 Carl Mover Program Update Travel Expenses	109.13	0.00	-390.51
0000125	1/10/2017	[10240] RAUSCH, VICKIE-AT&T Public Notice Copies	45.57	0.00	-436.08
0000022	1/10/2017	January 17 Payment	0.00	448.59	12.51
		Total for Report:	448.59	448.59	

MINUTES OF THE GOVERNING BOARD OF THE ANTELOPE VALLEY AIR QUALITY MANAGEMENT DISTRICT LANCASTER, CALIFORNIA

AGENDA ITEM 6

DATE: March 21, 2017

RECOMMENDATION: Approve payment to MDAQMD in the total amount of \$106,110.46, subject to availability of funds, for services provided during the month of January 2017.

SUMMARY: The District contracts for services with MDAQMD; invoices for services are presented for payment.

CONFLICT OF INTEREST: None

BACKGROUND: Key expenses are staff; six positions are assigned to the local office. In this billing format staff time conducted in the performance of administering the Carl Moyer and AB 2766 programs is listed separately for program accountability. The Carl Moyer Program is a source of revenue used to reimburse some program administrative expenses. Operating expenses are paid directly and accounted in the Financial Report. Staff will be available to answer questions as needed.

This payment request represents services rendered for January 2017 in the amount of \$106,110.46, including amounts accrued for services rendered or supplies purchased but not yet billed or paid this fiscal year.

REASON FOR RECOMMENDATION: The AVAQMD Governing Board must authorize all payments to the MDAQMD.

REVIEW BY OTHERS: This item was reviewed by Allison Burns, Special Counsel as to legal form; and by Bret Banks, Executive Director/APCO, on or before March 6, 2017.

FINANCIAL DATA: The contract and direct expenditure amounts are part of the approved District budget for FY 17. No change in appropriations is anticipated as a result of the approval of this item.

PRESENTER: Jean Bracy, Deputy Director/Administration

cc: Jean Bracy Laquita Cole Michelle Powell



Mojave Desert AQMD

14306 Park Avenue Victorville, CA 92392 760.245.1661

INVOICE

Bill To : ANTELOPE VALLEY AQMD 43301 DIVISION ST. SUITE 206 LANCASTER, CA 93535

Company ID 10193

FY17		Amount
Professional Services		21.16
Office Expenses		33.56
Capital Expenditures		390.88
Antelope Valley AB2766		5,528.34
AV AB923		1,649.47
Antelope Valley PERP		196.28
Antelope Valley PM2.5		506.84
Antelope Valley Title V		329.92
Antelope Valley Moyer		4,886.48
Program Staff		79,536.42
Overhead		13,031.11
TO INSURE PROPER CREDIT - PLEASE INCLUDE A COPY OF THE INVOICE WITH YOUR PAYMENT		
FOR CREDIT CARD PAYMENTS		
PLEASE VISIT www.mdaqmd.ca.gov		
MAKE CHECKS PAYABLE TO MOJAVE DESERT AQMD Invoice Tota PLEASE INCLUDE THE INVOICE NUMBER ON THE CHECK Discussion		106,110.46
		0.00
FLEASE MOLODE THE INVOICE NOWDER ON THE CHECK	Balance Due	106,110.46

MINUTES OF THE GOVERNING BOARD OF THE ANTELOPE VALLEY AIR QUALITY MANAGEMENT DISTRICT LANCASTER, CALIFORNIA

AGENDA ITEM <u>7</u>

DATE: March 21, 2017

RECOMMENDATION: Amend Governing Board Policy 02-01, "Authority of the Air Pollution Control Officer."

SUMMARY: This item amends Governing Board Policy 02-01, to add the authority to declare and dispose of District property, and to "cleanup" and update the policy language.

BACKGROUND: This existing Governing Board policy was adopted on January 15, 2002, together with a number of policies that established the Antelope Valley Air Quality Management District from the former Antelope Valley Air Pollution Control District. In the years since, the District has revised its contracting relationship with the Mojave Desert Air Quality Management (MDAQMD) and an Air Pollution Control Officer (APCO) is among the staff assigned to conduct the business of the District.

This amendment revises the authority of the APCO in light of the contracting relationship particularly in regard to personnel matters. It also adds authority to declare and dispose District property valued at less than \$1,000 (depreciated value). The APCO will report to the Board periodically on the District property disposed.

REASON FOR RECOMMENDATION: The Governing Board action is necessary to approve changes to the policies of the Governing Board.

REVIEW BY OTHERS: This item was reviewed by Allison Burns, Special Counsel as to legal form on or about March 1, 2017.

FINANCIAL DATA: No increase in appropriation is anticipated.

PRESENTER: Bret Banks, Executive Director/APCO

cc: Jean Bracy

GOVERNING BOARD POLICY Antelope Valley Air Quality Management District

Policy No: 02-01 Amended: March 21, 2017

Marvin Crist Governing Board Chair Bret S. Banks Executive Director/APCO

SUBJECT: AUTHORITY OF THE AIR POLLUTION CONTROL OFFICER

POLICY:

The Governing Board (Board) of the Antelope Valley Air Quality Management District (District) has employed the Air Pollution Control Officer (APCO) to carry out Board policies, direct District operations, provide day to day supervision of District employees and control District expenditures. It is the judgment of the Board that a clear delineation of the APCO=s authority is essential to effective District management. Therefore, it is the policy of the Board to delegate to the APCO management authority as set forth herein.

It is the policy of the Governing Board of the Antelope Valley Air Quality Management District (District) to delegate to the Executive Director/APCO management authority as set forth herein. Nothing in this policy shall be considered an amendment of any agreement between the District and its contractor, Mojave Desert Air Quality Management District (MDAQMD). In the case of a conflict, the terms of the Agreement shall take precedence.

AMPLIFICATION OF POLICY:

The Governing Board delegates to the APCO:

- 1. The authority to make management decisions in conformity with policies established by the Board.
- 2 The authority to manage District financial operations and expend District funds in conformity with the District budget as adopted by the Board. The budget shall be proposed by the APCO in a form and at a level of detail determined by the Board. Upon Board adoption of the budget, the APCO shall have:
 - a. The authority to transfer funds within major budget categories.
 - b. The authority to expend District funds for capital replacement and improvement projects up to the limits established for each project in the budget.

- c. The authority to expend District funds for contracts not exceeding \$25,000 for specifically budgeted non-emergency items.
- d. The authority to expend District funds for contracts not exceeding \$5,000 for unbudgeted non-emergency items if funds are available.
- 3. The authority to review budget revenue and expenditure monthly on behalf of the Board and present a report to the Board at periodic intervals, but not less than once every three months. However, in the event revenues or expenditures materially vary from the budget, the APCO shall inform the Board and propose corrective action at the earliest opportunity.
- 4. In the event of an emergency, the authority to determine that an emergency exists that adversely affects the ability of the District to perform its services, puts District personnel or property in jeopardy, or may jeopardize the health and safety of the community and its residents:
 - a. The APCO shall take whatever steps and expend whatever funds he or she deems necessary to meet the emergency.
 - b. The APCO shall inform the Board of the emergency and the steps he or she has taken and expenditures that have been incurred at the earliest opportunity.
- 5. The authority to hire, dismiss, make assignments, direct, supervise, and/or assist District employees and independent contractors to ensure the successful operation of the District; and to grant annual compensation increases of up to seven and a half percent (7.5%).
- 6. The authority to establish Personnel classifications and compensation plans subject to periodic review by the Board; and to reclassify any position with a change in compensation of up to seven and a half (7.5%).
- 5. The authority, within the scope of the contract with the MDAQMD, to hire, dismiss, make assignments, direct, supervise, and/or assist employees and independent contractors to ensure the successful operation of the District.
- 7. <u>Property Rights</u>
 - <u>a) Real Property.</u> The authority to accept, on behalf of the District, easements and similar real property rights and interests required for effective performance of the District <u>'</u>=s legitimate functions. The Board reserves to itself the sole authority to convey real property or real property rights.
 - b) Other Property: The Governing Board delegates to the APCO or his or her duly appointed designee the authority to declare surplus and dispose of other District Property valued at less than \$1,000 (depreciated value) and to arrange for the recycle or disposal of such property in a manner such that District liability is minimized, District information is protected, and applicable laws are followed. The APCO or his or her designee shall present a report detailing surplus property and manner of

disposition to the Board at periodic intervals, but not less than once every six months if property has been disposed of during that period.

The authority to carry out District management objectives and plans as approved by the 8. Board.

The Governing Board recognizes that there are management areas in addition to those enumerated herein, which may require further delineation of management authority.

Signed:

________, Chairman Antelope Valley Air Quality Management District

Approved as to Legal Form

/s/ , Fazle Rab Quadri District Counsel

Revision History Adopted: January 15, 2002 Amended: March 16, 2004 Last Review: February 17, 2015

GOVERNING BOARD POLICY Antelope Valley Air Quality Management District

Policy No: 02-01 Amended: March 21, 2017

Marvin Crist Governing Board Chair Bret S. Banks Executive Director/APCO

SUBJECT: AUTHORITY OF THE AIR POLLUTION CONTROL OFFICER

POLICY:

It is the policy of the Governing Board of the Antelope Valley Air Quality Management District (District) to delegate to the Executive Director/APCO management authority as set forth herein. Nothing in this policy shall be considered an amendment of any agreement between the District and its contractor, Mojave Desert Air Quality Management District (MDAQMD). In the case of a conflict, the terms of the Agreement shall take precedence.

AMPLIFICATION OF POLICY:

The Governing Board delegates to the APCO:

- 1. The authority to make management decisions in conformity with policies established by the Board.
- 2 The authority to manage District financial operations and expend District funds in conformity with the District budget as adopted by the Board. The budget shall be proposed by the APCO in a form and at a level of detail determined by the Board. Upon Board adoption of the budget, the APCO shall have:
 - a. The authority to transfer funds within major budget categories.
 - b. The authority to expend District funds for capital replacement and improvement projects up to the limits established for each project in the budget.
 - c. The authority to expend District funds for contracts not exceeding \$25,000 for specifically budgeted non-emergency items.
 - d. The authority to expend District funds for contracts not exceeding \$5,000 for unbudgeted non-emergency items if funds are available.

3. The authority to review budget revenue and expenditure monthly on behalf of the Board and present a report to the Board at periodic intervals, but not less than once every three months. However, in the event revenues or expenditures materially vary from the budget, the APCO shall inform the Board and propose corrective action at the earliest opportunity.

- 4. In the event of an emergency, the authority to determine that an emergency exists that adversely affects the ability of the District to perform its services, puts District personnel or property in jeopardy, or may jeopardize the health and safety of the community and its residents:
 - a. The APCO shall take whatever steps and expend whatever funds he or she deems necessary to meet the emergency.
 - b. The APCO shall inform the Board of the emergency and the steps he or she has taken and expenditures that have been incurred at the earliest opportunity.
- 5. The authority, within the scope of the contract with the MDAQMD, to hire, dismiss, make assignments, direct, supervise, and/or assist employees and independent contractors to ensure the successful operation of the District.
- 7. Property Rights
 - a) Real Property. The authority to accept, on behalf of the District, easements and similar real property rights and interests required for effective performance of the District's legitimate functions. The Board reserves to itself the sole authority to convey real property or real property rights.
 - b) Other Property: The Governing Board delegates to the APCO or his or her duly appointed designee the authority to declare surplus and dispose of other District Property valued at less than \$1,000 (depreciated value) and to arrange for the recycle or disposal of such property in a manner such that District liability is minimized, District information is protected, and applicable laws are followed. The APCO or his or her designee shall present a report detailing surplus property and manner of disposition to the Board at periodic intervals, but not less than once every six months if property has been disposed of during that period.
- 8. The authority to carry out District management objectives and plans as approved by the Board.

The Governing Board recognizes that there are management areas in addition to those enumerated herein, which may require further delineation of management authority.

Approved as to Legal Form

Allison Burns, Special Counsel

Revision History: Adopted: January 15, 2002 Amended: March 16, 2004 Last Review: February 17, 2015
MINUTES OF THE GOVERNING BOARD OF THE ANTELOPE VALLEY AIR QUALITY MANAGEMENT DISTRICT LANCASTER, CALIFORNIA

AGENDA ITEM **8**

DATE: March 21, 2017

RECOMMENDATION: Conduct a public hearing to consider the adoption of the *AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)*: a. Open public hearing; b. Receive staff report; c. Receive public testimony; d. Close public hearing; e. Make a determination that the California Environmental Quality Act (CEQA) Categorical Exemption applies; f. Waive reading of Resolution; g. Adopt Resolution making appropriate findings, certifying the Notice of Exemption, adopting the plan and directing staff actions.

SUMMARY: The AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) is proposed for adoption to satisfy Federal Clean Air Act (FCAA) requirements that the AVAQMD develop a plan to attain the 0.075 part per million (ppm) 8-hour ozone National Ambient Air Quality Standard (NAAQS). Once adopted, this plan will update the 2008 AVAQMD Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-attainment Area).

BACKGROUND: The Antelope Valley Air Quality Management District (AVAQMD) was designated nonattainment and classified severe-17 for ozone under the then effective federal one-hour ozone standard (120 parts per billion (ppb) Primary and Secondary Ozone National Ambient Air Quality Standards (NAAQS), 44 FR 8202, February 8, 1979). The AVAQMD adopted both state and federal attainment plans for all standards within its jurisdiction.

On March 9, 2006, USEPA shifted the ozone standard from measurement on a one-hour basis to an eight hour basis (8-hour ozone standard, 80 ppb Primary and Secondary Ozone NAAQS, 62 FR 38856, July 18, 1997). The USEPA designated the Western Mojave Desert area as nonattainment for the 8-hour ozone NAAQS pursuant to the provisions of the Federal Clean Air Act (FCAA). The entire AVAQMD is included in the Western Mojave Desert nonattainment area. The AVAQMD adopted the 2008 *AVAQMD Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-attainment Area)* to satisfy the planning requirements under this standard.

Cc: Tracy Walters

MINUTES OF THE GOVERNING BOARD OF THE ANTELOPE VALLEY AIR QUALITY MANAGEMENT DISTRICT LANCASTER, CALIFORNIA

AGENDA ITEM **<u>8</u>**

PAGE 2

On March 27, 2008, USEPA set the 8-hour primary and secondary ozone NAAQS to a level of 75 ppb). The USEPA then designated the Western Mojave Desert area as nonattainment for the 75 ppb 8-hour ozone NAAQS. The AVAQMD has prepared the *AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)* to satisfy the planning requirements under this newer standard. This plan, when adopted, will update all previously submitted federal ozone plans. However, portions of the previously adopted and approved plans will remain in effect until the region has been designated attainment for the relevant prior standard.

A <u>Notice of Exemption</u>, Categorical Exemption (Class8; 14 Cal. Code Reg. §15308) will be prepared by the AVAQMD for the adoption of the *AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)* pursuant to the requirements of CEQA.

REASON FOR RECOMMENDATION: Health & Safety Code §§40702 and 40703 require the Governing Board to hold a public hearing before adopting rules and regulation. Also, 42 U.S.C. §7410(1) (FCAA §110(1)) requires that all State Implementation Plan (SIP) revisions be adopted after public notice and hearing.

REVIEW BY OTHERS: This item was reviewed by Karen Nowak, District Counsel as to legal form and by Bret Banks, Executive Officer/APCO on or about March 6, 2017.

FINANCIAL DATA: No increase in appropriation is anticipated.

PRESENTER: Bret Banks, Executive Officer/APCO

RESOLUTION

A RESOLUTION OF THE GOVERNING BOARD OF THE ANTELOPE VALLEY AIR QUALITY MANAGEMENT DISTRICT MAKING FINDINGS, CERTIFYING THE NOTICE OF EXEMPTION, ADOPTING THE AVAQMD FEDERAL 75 PPB OZONE ATTAINMENT PLAN (WESTERN MOJAVE DESERT NONATTAINMENT AREA) AND DIRECTING STAFF ACTIONS.

On <u>March 21, 2017</u>, on motion by Member <u>Board Member Name</u>, seconded by Member <u>Board</u> <u>Member Name</u>, and carried, the following resolution is adopted:

WHEREAS, the Antelope Valley Air Quality Management District (AVAQMD) has authority pursuant to California Health and Safety Code (H&S Code) §§40702, 40725-40728 to adopt, amend or repeal rules and regulations; and

WHEREAS, the AVAQMD was designated nonattainment and classified severe-17 for ozone under the then effective federal one-hour ozone standard (120 parts per billion (ppb) Primary and Secondary Ozone National Ambient Air Quality Standards (NAAQS), 44 FR 8202, February 8, 1979); and

WHEREAS, the AVAQMD adopted both state and federal attainment plans for all standards within its jurisdiction; and

WHEREAS, on March 9, 2006, USEPA shifted the ozone standard from measurement on a onehour basis to an eight-hour basis (8-hour ozone standard, 80 ppb Primary and Secondary Ozone NAAQS, 62 FR 38856, July 18, 1997); and

WHEREAS, the USEPA designated the Western Mojave Desert area as nonattainment for the 8hour ozone NAAQS pursuant to the provisions of the Federal Clean Air Act (FCAA); and

WHEREAS, the entire AVAQMD is included in the Western Mojave Desert nonattainment area; and

WHEREAS, the AVAQMD adopted the 2008 AVAQMD Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-attainment Area) to satisfy the planning requirements under this standard; and

WHEREAS, on March 27, 2008, the USEPA set the 8-hour Primary and Secondary Ozone NAAQS to a level of 75 ppb); and

WHEREAS, the USEPA then designated the Western Mojave Desert area as nonattainment for the 75 ppb 8-hour ozone NAAQS; and

RESOLUTION

WHEREAS, the AVAQMD has prepared the AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) to satisfy the planning requirements under this newer standard; and

WHEREAS, this plan, when adopted, will update all previously submitted federal ozone plans; and

WHEREAS, portions of the previously adopted and approved plans will remain in effect until the region has been designated attainment for the relevant prior standard; and

WHEREAS, the proposed adoption of the *AVAQMD Federal 75 ppb Ozone Attainment Plan* (*Western Mojave Desert Nonattainment Area*) is necessary to comply with the provisions of the FCAA and include the latest planning assumptions regarding population, vehicle activity and industrial activity; addresses all existing and forecast ozone precursor-producing activities within the jurisdiction of the AVAQMD through the year 2027; and contains all necessary information to allow general and transportation conformity findings to be made within the jurisdiction of the AVAQMD; and

WHEREAS, the AVAQMD has the authority pursuant to H&S Code §40702 to do such acts as may be necessary or proper to execute the powers and duties granted to, and imposed upon, the District by this division and other statutory provisions; and

WHEREAS, the proposed adoption is clear in that the meaning can be easily understood by the persons impacted by the plan; and

WHEREAS, the proposed adoption is in harmony with, and not in conflict with, or contradictory to existing statutes, court decisions, or state or federal regulations because the Western Mojave Desert area (as defined in 40 CFR 81.305) was designated nonattainment for the NAAQS for ozone by the USEPA effective on July 20, 2012, and this nonattainment area includes the Antelope Valley portion of Los Angeles County, as well as the San Bernardino County portion of the Mojave Desert Air Quality Management District (MDAQMD), and the AVAQMD has experienced ambient ozone concentrations in excess of the 8-hour ozone NAAQS; and

WHEREAS, this plan: (1) demonstrates that the AVAQMD will meet the primary required federal ozone planning milestone, attainment of the 75 ppb 8-hour ozone NAAQS, by July 2026; (2) presents the progress the AVAQMD will make towards meeting all required ozone planning milestones;

RESOLUTION _____

and (3) discusses the newest 70 ppb 8-hour ozone NAAQS, preparatory to an expected nonattainment designation for the new NAAQS; and this document satisfies 42 U.S.C. §§7410, 7502, 7504 and 7511a (FCAA §§110, 172, 174, and 182) regarding implementation plans, nonattainment plan provisions, planning procedures, and ozone plan submissions and requirements for the 75 ppb 8-hour NAAQS; and

WHEREAS, the proposed plan does not impose the same requirements as any existing state or federal regulation because the USEPA designated the Western Mojave Desert area as nonattainment for the March 2008 75 ppb 8-hour ozone NAAQS pursuant to the provisions of the FCAA, and the entire AVAQMD is included in the Western Mojave Desert Nonattainment area, and this plan addresses all federal attainment planning requirements for the 75 ppb federal 8-hour ozone standard; as a result, this document updates the June 2008 AVAQMD Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-attainment Area); and

WHEREAS, the proposed plan is needed because this document includes the latest planning assumptions regarding population, vehicle activity and industrial activity; addresses all existing and forecast ozone precursor-producing activities within the jurisdiction of the AVAQMD through the year 2027; and includes all necessary information to allow general and transportation conformity findings to be made within the jurisdiction of the AVAQMD; and

WHEREAS, a public hearing has been properly noticed and conducted, pursuant to H&S Code §40725, concerning the proposed adoption of the AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area); and

WHEREAS, a <u>Notice of Exemption</u>, a Categorical Exemption (Class 8, 14 CCR §15308) for the proposed adoption of the *AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)*, completed in compliance with the California Environmental Quality Act (CEQA), has been presented to the Governing Board of the AVAQMD; each member having reviewed, considered and approved the information contained therein prior to acting on the proposed adoption of the *AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)*, and the Governing Board of the AVAQMD federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area), and the Governing Board of the AVAQMD having determined that the proposed adoption of the plan will not have any potential for resulting in any adverse impact upon the environment; and

WHEREAS, the Governing Board of the AVAQMD has considered the evidence presented at the public hearing; and

NOW, THEREFORE, BE IT RESOLVED, that the Governing Board of the AVAQMD finds that the proposed adoption of the AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) is necessary, authorized, clear, consistent, non-duplicative and properly referenced: and

BE IT FURTHER RESOLVED, that the Governing Board of the AVAQMD hereby makes a finding that the Class 8 Categorical Exemption (14 CCR §15308) applies and certifies the Notice of Exemption for the proposed adoption of the AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area); and

BE IT FURTHER RESOLVED, that the Governing Board of the AVAQMD does hereby adopt, pursuant to the authority granted by law, the AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) as set forth in the attachments to this resolution and incorporated herein by this reference; and

BE IT FURTHER RESOLVED, that this resolution shall take effect immediately upon adoption, that the Administrative Secretary is directed to file the Notice of Exemption in compliance with the provisions of CEQA.

18 **PASSED, APPROVED AND ADOPTED** by the Governing Board of the Antelope Valley Air Quality

Management District by the following vote: **MEMBER:** AYES:

NOES: MEMBER:

ABSENT: MEMBER:

ABSTAIN: **MEMBER**:

STATE OF CALIFORNIA
COUNTY OF LOS ANGELES

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RESOLUTION

I, Crystal Goree, Administrative Secretary of the Governing Board of the Antelope Valley Air Quality Management District, hereby certify the foregoing to be a full, true and correct copy of the record of the action as the same appears in the Official Minutes of said Governing Board at its meeting of <u>March</u> 21, 2017.

4	Administrative Secretary
	Antolono Vollov Air Quality Management District
	Antelope valley All Quality Management District.
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5	

AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)

Adopted on 3/21/2017

Antelope Valley Air Quality Management District 43301 Division Street, Suite 206 Lancaster, CA 93535-4649 This document was prepared by the AVAQMD Planning and Rule-making section, with input from the entire AVAQMD staff. Significant portions of this document were prepared by, or are based on work done by, the California Air Resources Board and the South Coast Air Quality Management District staffs. The AVAQMD staff greatly appreciates the assistance of those agencies in the preparation of this document.

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Abbreviations and Acronyms

AQAP	Air Quality Attainment Plan
AQMA	Air Quality Management Area
AQMP	Air Quality Management Plan
AVAQMD	Antelope Valley Air Quality Management District
CALGRID	California Photochemical Grid Model
CARB	California Air Resources Board
CCAA	California Clean Air Act
СО	Carbon Monoxide
ERC	Emission Reduction Credit
FCAA	Federal Clean Air Act
FMVCP	Federal Motor Vehicle Control Program
FONA	Federal Ozone Nonattainment Area
MDAQMD	Mojave Desert Air Quality Management District
MPO	Metropolitan Planning Organization
MPR	Model Performance Ratio
NAAQS	National Ambient Air Quality Standard
NO _x	Oxides of Nitrogen
NSR	New Source Review
O ₃	Ozone
ppb	Parts per billion
RACM	Reasonably Available Control Measure
RACT	Reasonably Available Control Technology
ROG	Reactive Organic Gases
ROP	Rate of Progress
RRF	Relative Reduction Factor
SAAQS	State Ambient Air Quality Standard
SBCAPCD	San Bernardino County Air Pollution Control District
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCAQS87	1987 Southern California Air Quality Study
SCOS97	1997 Southern California Ozone Study
SDMAQMA	Southeast Desert Modified Air Quality Management Area
SIP	State Implementation Plan
SSAB	Salton Sea Air Basin
TCM	Transportation Control Measure
tpaad	Tons per Annual Average Day
tposd	Tons per Ozone Seasonal Day
ŪAM	Urban Airshed Model
USEPA	United States Environmental Protection Agency
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
WMDONA	Western Mojave Desert Ozone Nonattainment Area

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Executive Summary

The United States Environmental Protection Agency (USEPA) designated the Western Mojave Desert Nonattainment Area (WMDONA) as nonattainment for the March 2008 75 ppb 8-hour ozone National Ambient Air Quality Standard (NAAQS) pursuant to the provisions of the Federal Clean Air Act (FCAA). The Antelope Valley Air Quality Management District (AVAQMD) is included in the WMDONA. This plan addresses all Federal attainment planning requirements for the 75 ppb federal 8-hour ozone standard.

The AVAQMD has reviewed and updated all elements of the ozone plan. The portion of the AVAQMD designated as a Federal 8-hour ozone nonattainment area will be in attainment of the 75 ppb ozone NAAQS by July 2027.

This document includes the latest planning assumptions regarding population, vehicle activity and industrial activity. This document addresses all existing and forecast ozone precursor-producing activities within the AVAQMD through the year 2026. This document includes all necessary information to allow general and transportation conformity findings to be made within the AVAQMD.

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CHAPTER 1 – Introduction and Background

Purpose Regulatory History Statement of Issues Federal Legal Requirements Pollutant Descriptions and Health Effects Setting Ozone Trend This page intentionally left blank.

INTRODUCTION

Purpose

The Western Mojave Desert nonattainment area (as defined in 40 CFR 81.305) was designated nonattainment for the NAAQS for ozone by USEPA effective on July 20, 2012. The Western Mojave Desert Ozone Non-attainment Area (WMDONA) includes part of the San Bernardino County portion of the MDAQMD, as well as the Antelope Valley portion of Los Angeles County. The AVAQMD has experienced ambient ozone concentrations in excess of the 8-hour ozone NAAQS. This document: (1) demonstrates that the AVAQMD will meet the primary required Federal ozone planning milestone, attainment of the 75 ppb 8-hour ozone NAAQS, by July 2027; (2) presents the progress the AVAQMD will make towards meeting all required ozone planning milestones; and (3) discusses the 2015 70 ppb 8-hour ozone NAAQS, preparatory to an expected non-attainment designation for the new NAAQS. This document satisfies 42 U.S.C. §§7410, 7502, 7504 and 7511a (FCAA §§110, 172, 174, and 182) regarding implementation plans, non-attainment plan provisions, planning procedures, and ozone plan submissions and requirements for the 75 ppb 8-hour NAAQS.

BACKGROUND

Regulatory History

The USEPA designated the northern desert part of Los Angeles County as nonattainment and classified it as Severe for the 8-hour standard. This area was classified based on an ozone design value calculated from 2008 through 2010 concentrations in the region. The Severe classification requires attainment of the 8-hour ozone NAAQS by July 2027, fifteen years after the date of designation.

The desert portion of Los Angeles County was established as it's own air district as of July 1, 1997, the Antelope Valley Air Pollution Control District (AVAPCD), pursuant to former Health & Safety Code (H&SC) §40106 (Statutes 1996 ch 542, Repealed Statutes 2001 ch. 163). This air district was replaced by the AVAQMD on January 1, 2002, pursuant to H&SC §41300 et seq (Statutes 2001 ch. 163). As a successor district to the SCAQMD, the AVAQMD assumes the authorities and duties of the SCAQMD for the Antelope Valley (H&SC §41302).

The SCAQMD addressed the desert portion of Los Angeles County in the 1991 AQMP, the 1994 AQMP, and the 1997 AQMP. The 1994 AQMP is the most recent ozone attainment plan for the desert portion of Los Angeles County that has been approved by USEPA. The USEPA has approved a revision to the 1997 AQMP that was adopted after the formation of the AVAPCD. The AVAQMD adopted the AVAQMD 2004 Ozone Attainment Plan on April 20, 2004 and the Federal 8-Hour Ozone Attainment Plan on May 20, 2008. This document replaces or updates all previously submitted federal ozone plans.

Regional Ozone Planning Chronology

1989 - CARB designates SEDAB as non-attainment for ozone SAAQS
1990 - CARB classifies the SEDAB as moderate ozone non-attainment
November 1990 - Adoption of Federal Clean Air Act Amendments
September 9, 1994 - Adoption of 1994 AQMP by SCAQMD
1996 - SEDAB is subdivided into the Mojave Desert Air Basin (MDAB) and the Salton Sea Air Basin (SSAB)
November 15, 1996 - Adoption of 1997 AQMP by SCAQMD
July 1, 1997 - AVAPCD formed
January 1, 2002 - AVAPCD changed to AVAQMD
April 20, 2004 - Adoption of AVAQMD Federal 8-hour Ozone Attainment Plan (Severe-17)
January 25, 2010 - Adoption of AVAQMD Federal 8-hour Ozone Attainment Plan (Severe-15)
July 20, 2012 - USEPA designates 75 ppb 8-hour nonattainment areas

Statement of Issues

The Antelope Valley is downwind of the Los Angeles basin, and to a lesser extent, is downwind of the San Joaquin Valley. Prevailing winds transport ozone and ozone precursors from both regions into and through the Antelope Valley during the summer ozone season. These transport couplings have been officially recognized by CARB.¹ Local Antelope Valley emissions contribute to exceedances of both the national and state ambient air quality standards for ozone, but photochemical ozone modeling conducted by the SCAQMD and CARB indicates that the Antelope Valley would be in attainment of both standards without the influence of this transported air pollution from upwind regions.

Federal Legal Requirements

The AVAQMD must adopt a plan that provides for the implementation, maintenance and enforcement of the NAAQS within three years after promulgation of the NAAQS. The plan is to include enforceable emission limitations, provide for a monitoring program, provide for a permit program (including a New Source Review program), contingency measures, and air quality modeling (42 U.S.C. §7410(a); FCAA §110(a)). The AVAQMD most recently met this requirement with the AVAQMD 2008 Ozone Attainment Plan. This document represents an update to that plan. The AVAQMD has adopted enforceable emission limitations, has a monitoring system in place (at Lancaster), maintains a permit program (including a New Source Review program with an ambient air quality modeling requirement), and has performed an attainment demonstration using air quality modeling. This document identifies a contingency measure – see chapter 3.

This document incorporates all reasonably available control measures (RACM - all such measures have already been adopted for the FONA or are being committed to adoption in this

¹ "Ozone Transport: 2001 Review," April 2001, CARB identifies the South Coast Air Basin as having an overwhelming and significant impact on the Mojave Desert Air Basin (which includes the Mojave Desert) and the San Joaquin Valley as having an overwhelming impact on the MDAB.

plan). This document includes a comprehensive, accurate and current inventory of actual emissions (42 U.S.C. §7502(c)(3), 7511a(a)(1); FCAA §§172(c)(3), 182(a)(1)).

This document discusses reasonable further progress (42 U.S.C. \$7502(c)(2), 7511a(b)(1); FCAA \$172(c)(2), 182(b)(1)) for the applicable periodic milestone dates (2008, 2011, 2014, 2017 and 2020) (42 U.S.C. \$7511a(g); FCAA \$182(g)).

This document has been coordinated with the transportation planning process (42 U.S.C. §7504; FCAA §174). The document includes an emission budget for the FONA, and also includes the on-road mobile source emission budget for the WMDONA.

This document updates the MDAQMD emissions inventory (42 U.S.C. 7511a(a)(1); FCAA §182(a)(1)).

The AVAQMD has an enhanced non-attainment pollutant monitoring program, requires reasonably available control technology (RACT) within the FONA, has a vehicle inspection and maintenance program, a De Minimis rule, and a gasoline vapor recovery rule. The AVAQMD participates in the State's Clean-Fuel Vehicle Program, and performs periodic transportation activity consistency demonstrations (including a review of vehicle miles traveled growth) in conjunction with the Southern California Association of Governments (SCAG). The AVAQMD controls oxides of nitrogen (NO_x) in addition to Volatile Organic Compounds (VOC) within the FONA, and is addressing both pollutants in this document. The AVAQMD New Source Review (NSR) program defines sources emitting 25 tons per year or more as major and requires offsets at a 1.3 to 1 ratio (42 U.S.C. \$7511a(d)(1); FCAA \$182(d)(1)) have been shown to be not cost-effective for the FONA due to low population density.

Pollutant Description and Health Effects

Ozone (O_3) is a colorless gas that is a highly reactive form of oxygen. It has a strong odor when highly concentrated. Ozone can occur naturally but can also be formed from other compounds through photochemistry, a complex system of reactions with hydrocarbons and oxides of nitrogen in the presence of sunlight (ultraviolet). The MDAB experiences ozone concentrations in excess of the state and Federal ambient air quality standards.

Ozone can cause respiratory irritation and discomfort, making breathing more difficult during exercise. Ozone can reduce the respiratory system's ability to remove inhaled particles, increase pulse rate, decrease blood pressure and reduce the body's ability to fight infection. After six hours of exposure a healthy person can have significant reduction of lung function. It is an irritant towards the skin, eyes, upper respiratory system, and mucous membranes, although symptoms disappear after exposure. It may also be a carcinogen.

Setting

The AVAQMD is the desert portion of Los Angeles County. The AVAQMD has been designated nonattainment for the 8-hour ozone NAAQS by USEPA as a portion of the WMDONA in 40 CFR 81.305. The ozone design value classifies the area as a Severe

AVAQMD Federal 75 ppb Ozone Attainment Plan 03/21/2017

The Antelope Valley covers 1300 square miles and included 219,628 persons as of the 1990 census (approximately 366,000 in 2015), centered within the cities of Lancaster and Palmdale. The region is characterized by a wide, arid valley little precipitation. Air Force Plant 42 and a portion of Edwards Air Force Base are located in the area.

The primary roadways in the Antelope Valley are State Route 14 and State Route 18. Both of these arterials carry a substantial amount of daily commute traffic from the region into the Greater Los Angeles Basin.

The Antelope Valley is primarily a bedroom community, but does have significant aerospace development and manufacturing on Plant 42 (Boeing, Lockheed Martin and Northrop Grumman all lease facilities on the base from the Air Force).

Ozone Trend

The Antelope Valley has experienced some improvement in 8-hour average ozone, as displayed in Figure 1 (the superimposed line is the three-year average trend line). Note the significant change from 1998 to 1999 - 1998 was a hot year, and 1999 a cool year.



Figure 1 - Federal 8-Hour Ozone Design Value Trend

CHAPTER 2 – Emission Inventories

General Modeled Emission Inventory and Sub-Region Inventory FONA Base Year Emission Inventory Future Year Emission Inventories This page intentionally left blank

General

Ozone planning requirements call for the use of seasonal inventories representing emissions during a typical summer day (since ozone concentrations are typically highest under summer weather conditions). This document includes ozone seasonal day inventories, in units of tons per ozone seasonal day (tposd), unless otherwise indicated. All emissions presented in this document have been adjusted or calculated in terms of ozone seasonal day emissions.

Federal ozone planning requirements call for emissions in terms of Volatile Organic Compounds (VOC), while State ozone planning requirements call for emissions in terms of Reactive Organic Gases (ROG). Due to changes in each definition, there is no effective difference between the two terms (for example, ethane is now excluded from both definitions). For purposes of this document and attainment planning, the AVAQMD considers these terms interchangeable.

Modeled Emission Inventory and Sub-Region Inventory

The emission inventory for the WMDONA (including the AVAQMD) is provided in Appendix A of this document. Complete documentation for Los Angeles County emissions, including emission inventory calculation methodologies, are available from the following web address:

http://www.arb.ca.gov/ei/maps/basins/abmdmap.htm

The California Emission Forecasting System (CEFS) was used to generate future year emission estimates for Stationary Point, Stationary Aggregated, and Areawide category sectors. These future year estimates are based on anticipated socioeconomic growth rates, and control factors that estimate the impacts of local and state control regulations.

Emissions for On-Road sources (for all calendar years) were imported to CEFS directly from EMFAC2014. Emissions for off-road mobile sources (for all calendar years) were imported to CEFS directly from OFFROAD.

Federal Ozone Non-Attainment Area Base Year Emission Inventory

The initial Federal base year for emission inventory purposes is 2012. The base year inventory used for all growth scenarios in this document is 2012. The base year emission inventory is presented in Appendix A; a summary is presented in Table 1 below. Figure 2 presents the base year source category contributions in basic pie chart format (VOC on the left, NO_x on the right). Mobile sources were the primary emitters in the WMDONA in 2012.

	2012 VOC	2012 NOx				
Point	12.81	27.50				
Area	11.40	1.50				
Other Mobile	13.27	39.93				
On-Road Mobile	32.16					
Totals:	43.69	101.09				
(tons per ozone seasonal day)						

Table 1 - 2012 Base Year Summary

Figure 2 - 2012 Base Year Pie Charts (WMDONA)



Future Year Emission Inventories

Future year or forecasted emission inventories are estimated by multiplying a base year value for each category by a 'growth code' for a given future year. The 'growth code' is indexed to the base year (2012 for this document), so that its value for the base year is 1.00. This allows the growth code to estimate future activity in terms of emissions; if the growth code for the year 2017 is 1.50, activity in that category (and resulting emissions) is expected to be 50 percent greater than in 2012. The growth codes used to forecast point sources are available from CARB. Forecasted WMDONA VOC and NO_x inventory summaries for each year of interest are presented in Figures 3 and 4 respectively (the base year is included in each figure for reference). Future year emission inventories are presented in Appendix B.



Figure 3 - Forecasted VOC Emission Inventories (WMDONA)

Figure 4 - Forecasted NO_x Emission Inventories (WMDONA)



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CHAPTER 3 – Control and Contingency Measures

Existing Control Measures Reasonably Available Control Measures Proposed Control Measures Local Rule Adoption Schedule Contingency Measures Required Progress Controlled Emission Inventories Conformity Budgets Transportation Conformity VMT Offset Demonstration This page intentionally left blank.

Existing Control Measures

The current AVAQMD rules and regulations represent a broad set of control measures for MDAQMD sources. The AVAQMD has in place Reasonably Available Control Technology (RACT) requirements for the majority of sources (including gasoline dispensing vapor control), as well as an NSR program with a 25 ton per year major source level and a 1.3:1 offset ratio requirement.

Reasonably Available Control Measures

Federal law specifies that attainment plans provide for the adoption of all reasonably available control measures as expeditiously as possible. In addition to specific local rules meeting the RACT requirement, the State of California has found that the California mobile source control program meets the Federal reasonably available control measure requirement for the Western Mojave (see Appendices F and G).

Proposed Control Measures

The AVAQMD is not proposing to adopt any additional control measures for direct ozone precursor reduction purposes. However, the AVAQMD is committed to adopting all applicable Federal RACT rules. In addition, the AVAQMD will experience additional future emission reductions resulting from existing and proposed Federal and State control measures affecting mobile and area sources as discussed under Required Progress below. The existing State of California control measures with direct or indirect applicability to the AVAQMD are presented in Appendix F.

Local Rule Adoption Schedule

In 2006 and 2015, the AVAQMD reviewed all applicable Federal RACT categories.²³ The MDAQMD committed to adopting a variety of RACT rules as a result of that review – the AVAQMD is updating the adoption schedule for eleven pending rulemaking actions. The rule actions identified in Table 3 below are expected to have some positive effect on ozone precursor emissions, although the magnitude of that effect is currently unquantified.

Rule Title	Rule Nature	Adoption Date
1151.1 – Motor Vehicle and Mobile Equipment Coating	Federal RACT Update	10/2017
Operations		
462 – Organic Liquid Loading	Federal RACT Update	3/2018
1171 – Solvent Cleaning Operations	Federal RACT Update	7/2018
1110.2 – Emissions from Stationary, Non-Road &	Federal RACT Update	12/2018
Portable ICE		

 Table 2 - AVAQMD Rule Adoption Schedule

² "8-Hour Reasonably Available Control Technology – State Implementation Plan Analysis (RACT SIP Analysis)," August, 2006

³ "2015 8-Hour Reasonably Available Control Technology – State Implementation Plan Analysis (2015 RACT SIP Analysis)," February 2015

Contingency Measures

The AVAQMD reaffirms the use of the State Enhanced Inspection and Maintenance (I&M) Program as a contingency measure. The AVAQMD would implement the State of California's version of Enhanced I&M should a contingency measure be triggered by failure to attain the Federal 8-hour ozone standard.

Required Progress

Federal Clean Air Act (FCAA) §172(c)(2) and §182(b)(1) require attainment plans to provide for reasonable further progress (RFP). RFP is defined in FCAA §171(1) as annual incremental reductions for the purpose of ensuring attainment by the attainment year. This requirement to show steady progress in emission reductions between the baseline year and attainment date ensures that areas will not delay implementation of emission control programs until immediately before the attainment deadline.

In addition to the RFP requirements, FCAA §172(c)(9) requires that plans provide for contingency measures in case the area fails to make RFP. USEPA has interpreted this requirement to represent one year's worth of emission reduction progress, amounting to 3 percent reductions, from measures that are already in place or that would take effect without further rulemaking action.

Fifteen Percent ROG-only Rate of Progress Requirement

The March 2015 USEPA implementation rule (Rule) for the 2008 8-hour ozone standard interprets the FCAA RFP requirements, establishing requirements for RFP that depend on the area's classification and whether the area has an approved 15 percent ROG-only reduction plan for a previous ozone standard that covers all of the 2008 8-hour ozone nonattainment area (80 FR 12264). EPA has proposed approval of a 15 percent rate of progress plan for the Western Mojave Desert 1997 8-hour ozone standard covering the entire nonattainment area for the 2008 8-hour ozone standard. As a result, the 15 percent ROG-only requirement has been met for the WMDONA.

Reasonable Further Progress Requirements

Per the Rule, the WMDONA must demonstrate an 18 percent reduction in ozone precursor emissions for the first six years of the attainment planning period, and an average emission reduction of three percent per year after that until the attainment date (80 FR 12264). As detailed in FCAA 182(b)(1)(C), these emission reductions must be achieved through existing programs. The WMDONA RFP demonstration is achieved by forecasted emission reductions from existing control regulations as shown in the planning inventory. Both ROG and NO_x emission reductions are needed to meet the RFP reduction targets. The NO_x substitution is used on a percentage basis to cover any percentage shortfall in ROG reduction. Table 3 below demonstrates that the WMDONA meets the RFP targets in the milestone years of 2018, 2021, 2024, and 2026 with a three percent contingency set-aside in 2018 and carried through to 2026 per the requirements of the Rule.

(summer planning inventory, tons per day)						
Year	2012	2018	2021	2024	2026	
ROG (with existing measures)*	46.8	40.9	40.4	40.3	40.7	
Required % change since previous		1.00/	00/	00/	C 0/	
milestone year (ROG or NOx)		18%	9%	9%	6%	
Required % change since 2012		1.00/	270/	2004	420/	
(ROG or NOx)		18%	27%	36%	42%	
Target ROG levels		38.4	34.9	31.8	29.9	
Shortfall (-)/ Surplus (+) in ROG		26		٥ <i>८</i>	10.9	
reductions needed to meet target		-2.0	-5.5	-0.0	-10.8	
Shortfall (-)/ Surplus (+) in ROG		E E0/	11 00/	10 20/	22 10/	
reductions needed to meet target, %		-5.5%	-11.0%	-10.5%	-25.1%	
ROG reductions since 2012 used for		0.0%	0.0%	0.0%	0.0%	
contingency in this milestone year, %		0.0%	0.0%	0.0%	0.0%	
ROG reductions shortfall previously		0.0%	E E0/	11 00/	10 20/	
provided by NOx substitution, %		0.0%	5.5%	11.8%	18.3%	
Actual ROG reductions Shortfall (-)/		E E0/	C 29/	C E9/	4 00/	
Surplus (+), %		-5.5%	-0.3%	-0.5%	-4.8%	
Year	2012	2018	2021	2024	2026	
NOx (with existing measures)*	98.9	82.6	78.0	70.9	68.7	
Change in NOx since 2012		16.3	21.0	28.1	30.2	
Change in NOx since 2012, %		16.5%	21.2%	28.4%	30.5%	
NOx reductions since 2012 already used						
for ROG substitution & contingency		0.0%	8.5%	14.8%	21.3%	
through last milestone year, %						
NOx reductions since 2012 available for						
ROG substitution & contingency in this		16.5%	12.7%	13.5%	9.3%	
milestone year, %						
NOx reductions since 2012 used for ROG		5 5%	6.2%	6 5%	1 90/	
substitution in this milestone year, %		5.570	0.570	0.570	4.070	
NOx reductions since 2012 used for		2.00/	0.0%	0.0%	0.0%	
contingency in this milestone year, %		5.0%	0.0%	0.0%	0.0%	
NOx reductions since 2012 surplus after						
meeting ROG substitution & contingency		8.0%	6.4%	7.1%	4.4%	
needs in this milestone year, %						
RFP shortfall (-) in reductions needed to		0.0%	0.0%	0.0%	0.0%	
meet target, if any, %		0.0%	0.0%	0.0%	0.0%	
Total shortfall (-) for RFP and		0.0%	0.0%	0.0%	0.0%	
Contingency, if any, %		0.0%	0.0%	0.0%	0.0%	
RFP Met?		YES	YES	YES	YES	
Contingency Met?		YES	YES	YES	YES	

Table 3 - WMDONA 2008 8-hour Ozone NAAQS Reasonable Further Progress

Controlled Emission Inventories

As the AVAQMD is not proposing any additional local control measures with quantified emission reductions, the controlled emission inventory is identical to the forecasted emission inventory.

Conformity Budgets

The forecasted emission inventories presented in this document are the emission budgets for general conformity purposes, as no additional control measures with quantified emission reductions are proposed. A project subject to the general conformity test must be demonstrated to conform with the applicable portion of the forecasted emission inventory. For a project that falls between forecasted years, a linearly interpolated inventory may be calculated. For a project that falls after 2026, use 2026.

Transportation Conformity

Section 176(c) of the FCAA establishes transportation conformity requirements which are intended to ensure that transportation activities do not interfere with air quality progress. The CAA requires that transportation plans, programs, and projects that obtain federal funds or approvals be consistent with, or *conform to* applicable state implementation plans (SIPs) before being approved by a Metropolitan Planning Organization (MPO). Conformity to the SIP means that proposed transportation activities must not:

- (1) Cause or contribute to any new violation of any standard,
- (2) Increase the frequency or severity of any existing violation of any standard in any area, or
- (3) Delay timely attainment of any standard or any required interim emission reductions or other milestones in any area.

A SIP analyzes the region's total emissions inventory from all sources necessary to demonstrate RFP, attainment, or maintenance of the National Ambient Air Quality Standards (NAAQS). The portion of the total emissions inventory from on-road highway and transit vehicles which provides RFP and attainment or maintenance of the NAAQS in these analyses becomes the "motor vehicle emissions budget".⁴ Motor vehicle emissions budgets are the mechanism for ensuring that transportation planning activities conform to the SIP. Budgets are set for each criteria pollutant or its precursors that the area does not attain and it is set for each RFP milestone year and the attainment year.

Requirements for Demonstrating Conformity

The Southern California Association of Governments (SCAG), the MPO in Southern California, in consultation with the Los Angeles and San Bernardino County Transportation Commissions, prepares a long range regional transportation plan (RTP) at least every four years and a short range funding program, or regional transportation improvement program (RTIP) every two

⁴ Federal transportation conformity regulations are found in 40 CFR Parts 51 and 93 – Conformity to State or Federal Implementation Plans of Transportation Plans, Programs, and Projects Developed, Funded or Approved Under Titles 23 or 49 of the United States Code.

years. Content of both the RTP and RTIP are specified in federal transportation law found at Titles 23 and 49 of the Code of Federal Regulations (CFR) and applicable sections of California transportation planning law.

Before adopting the RTP/RTIP, SCAG prepares a regional emissions analysis using the proposed plan and program as specified in the Federal conformity regulation and compares those emissions to the emission budgets in the SIP. The MPO may determine the RTP/RTIP conforms if the emissions from the proposed actions are less than the emissions budgets in the SIP. The conformity determination also signifies that the MPO has met other transportation conformity requirements such as interagency consultation and financial constraint.

Conformity Budgets in the 2016 AQMP

The 2016 Air Quality Management Plan (AQMP) establishes transportation conformity emissions budgets for 2018, 2021, 2024 and 2026 for the ozone precursors VOC and NO_x in the WMDONA. The WMDONA consists of portions of Los Angeles and San Bernardino counties. The budgets are consistent with the emissions inventory used in the progress and attainment demonstrations.

The emissions budgets presented below use EMFAC2014 with SCAG modeled vehicle miles travelled (VMT) and speed distributions. The VMT and speed distribution data are from the 2016 RTP/SCS adopted by SCAG in April 2016. CARB staff released a revised emission rate program, EMFAC2014, which updates the emission rates and planning assumptions used in calculating conformity budgets. EMFAC2014 was approved for use in SIPs and transportation conformity by USEPA on December 14, 2015.

The federal conformity rule allows a SIP to create a safety margin in an emissions budget (See the CFR §93.101 and §93.118(e)(4)(vi)). A safety margin is defined as the difference between projected emissions and the emissions necessary to demonstrate progress or attainment. This plan creates a safety margin of 0.2 tons/day of VOC and 0.2 tons/day of NO_x in 2026 only. These budgets are consistent with the demonstrations of progress and attainment.

Calculation Methodology

All the budgets in this plan have been constructed in consultation with SCAG and USEPA using emissions for a summer average day consistent with the ozone attainment and progress demonstrations using the following method:

- 1) Calculate the on road motor vehicle emissions totals for VOC and NO_x from EMFAC2014.
- 2) Sum each pollutant and round each total up to the nearest ton for VOC and NO_x .

Table 4 below contains the emissions budgets for the WMDONA.

Table 4 - Transportation Conformity Budgets for the 2008 8-hour Ozone standard in the Western Mojave Desert Ozone Nonattainment Area*

Western Mojave Desert	2018		2021		2024		2026	
(tons per summer day)	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx
Baseline Emissions	9.00	20.32	7.46	15.99	6.39	10.56	5.98	9.84
Safety Margin							0.20	0.20
Total	9.00	20.32	7.46	15.99	6.39	10.56	6.18	10.04
Conformity Budget	10	21	8	16	7	11	7	11

*Budgets calculated with EMFAC2014 using SCAG 2016 RTP activity. Budgets are rounded up to the nearest ton.

VMT Offset Demonstration

In August 2012, U.S. EPA issued guidance titled "Implementing Clean Air Act Section 182(d)(1)(A): Transportation Control Measures and Transportation Control Strategies to Offset Growth in Emissions Due to Growth in Vehicle Miles Travelled". Among other things, USEPA's guidance points out that subsequent court decisions regarding previous VMT offset demonstrations omitted any reference to "transportation control strategies" (TCS). TCSs, which are not defined in the FCAA or USEPA regulation, are eligible to offset growth in emissions due to growth in VMT. The USEPA's new guidance indicates that technology improvements such as vehicle technology improvements, motor vehicle fuels, and other control strategies that are transportation-related could be used to offset increases in emissions due to VMT. USEPA's revised guidance sets forth a method of calculating the actual growth in emissions due to growth in VMT. Essentially, the state would compare projected attainment year emissions assuming no new control measures and no VMT growth with projected actual attainment year emissions (including new control measures and VMT growth). If the latter number is smaller than the former, no additional transportation control measures or strategies would be required. If additional transportation control measures and transportation control strategies are required, they should be clearly identified and distinguished from the measures included in the initial calculations for the base year and the three scenarios identified for the attainment year.

In addition, the guidance recommends that the base year used in the demonstration be the base year used in the attainment demonstration for the ozone standard. To address USEPA's guidance, 2012 is used in this demonstration as the base year for the 2008 8-hour standard. Consistent with USEPA guidance, emissions of VOC are used to determine compliance with the VMT offset requirement.

Transportation Control Strategies and Transportation Control Measures

By listing them separately, the FCAA (§182(d)(1)(A)) differentiates between TCS and TCM, and thus provides for a wide range of strategies and measures as options to offset growth in emissions from VMT growth. In addition, the example TCMs listed in §108(f)(1)(A) of the FCAA include measures that reduce emissions by reducing VMT, reducing tailpipe emissions, and removing dirtier vehicles from the fleet. California's motor vehicle control program
includes a variety of strategies and measures including new engine standards and in-use programs (e.g., smog check, vehicle scrap, fleet rules, idling restrictions). TCMs developed by SCAG provide additional reductions. In addition, SCAG prepares a report every two years that reports on the status of implementation of TCMs.

Based on the provisions in FCAA §182(d)(1)(A) and the clarifications provided in the USEPA guidance, any combination of transportation control strategies and TCMs may be used to meet the requirement to offset growth in emissions resulting from VMT growth. Since 1990 when this requirement was established, California has adopted more than sufficient enforceable transportation strategies and measures to meet the requirement to offset the growth in emissions from VMT growth. For the 2008 8-hour ozone standard offset demonstration, 2012 controls are used as the base case control level since 2012 is the base year of the SIP.

Emissions Due to VMT Growth

As discussed above, the USEPA guidance does provide a recommended calculation methodology that could be done to determine if sufficient transportation control strategies and TCMs have been adopted and implemented to offset the growth in emissions due solely to growth in VMT. As such, any increase in emissions solely from VMT increases in the future attainment year from the base year (assuming that there are no further motor vehicle control programs implemented after the base year) would need to be offset. In addition, a calculation is needed to show the emissions levels if VMT had remained constant from the base year to the future attainment year. As discussed earlier, a comparison of the projected attainment year emissions assuming no new control measures and no VMT growth with projected actual attainment year emissions (including new control measures and VMT growth) would be made. If the latter number is smaller than the former, no additional transportation control measures or strategies would be required.

Methodology

The following calculations are based on the USEPA guidance recommended calculation methodology. As shown for the 8-hour ozone standard, 2012 is the base year used for the attainment demonstration and 2026 is the attainment year.

This analysis uses California's approved motor vehicle emissions model, EMFAC. The EMFAC model estimates the emissions from two combustion processes: running exhaust and start exhaust, and four evaporative processes: hot soak, running losses, diurnal, and resting losses.

Emissions from running exhaust, start exhaust, hot soak, and running losses are a function of how much a vehicle is driven. Emissions from these processes are directly related to VMT, trips, and starts. These processes are included in the calculation of the emissions levels used in the VMT offset demonstration. Emissions from resting loss and diurnal loss processes are not related to VMT, trips or vehicle starts and are not included in the analysis because these emissions occur regardless if the vehicle makes a trip (i.e., a start) or not.

EMFAC combines trip-based VMT from the regional transportation planning agencies, starts data based on household travel surveys, and vehicle population data from the Department of Motor Vehicles with corresponding emission rates to calculate emissions.⁵

With the EMFAC model, the calculation of emissions growth and whether it is offset is simplified to a comparison of future year emissions with "no growth" in VMT or new control strategies to future emissions with VMT growth and new control strategies. This follows U.S. EPA's 2012 guidance and is consistent with the court's interpretation of FCAA §182(d)(1)(A).

Analysis Using 2012 as the Base Year for the 2008 8-hour Ozone Standard with Attainment Year of 2026.

Step 1. Provide the emissions level for the base year.

The following table shows the VOC emissions, VMT, starts, and vehicle population for calendar year 2012 from the EMFAC2014 model.

Summary of 2012 Duse Fear Fransportation Relying									
	VMT (thousand miles/day)	Starts (thousands/day)	Vehicle Population (thousands)	VOC Emissions* (tons/day)					
2012 Base Year	26,536	4,470	706	12.4					

Summary of 2012 Base Year Transportation Activity

* Does not include diurnal or resting loss emissions.

Step 2. Calculate three emissions levels in the attainment year.

For the attainment year,

(1) Calculate emissions level with the motor vehicle control program frozen at 2012 levels and with projected VMT, starts, and vehicle population for the attainment year. This represents what the emissions in the attainment year would have been if transportation control strategies and TCMs had not been implemented after 2012;

(2) Calculate emissions level with the motor vehicle control program frozen at 2012 levels and assuming VMT, starts, and vehicle population do not increase from 2012 levels; and

(3) Calculate an emissions level that represents emissions with full implementation of all transportation control strategies and TCMs since 2012 and which represents the projected future year baseline emissions inventory using the VMT, starts, and vehicle population for the attainment year.

Calculation 1. Calculate the emissions in the attainment year assuming no new measures since the base year, and including growth in VMT, starts, and vehicle population. To perform this calculation, CARB staff identified the on-road motor vehicle control programs adopted since 2012 and adjusted EMFAC2014 to reflect the VOC emissions levels in 2026

⁵ More information on data sources can be found in the EMFAC technical document which is located on the web at: <u>https://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf</u>

without the benefits of the post-2012 control programs. The projected VOC emissions are 6.5 tons/day.

Calculation 2. Calculate the emissions with no growth in VMT, starts, or vehicle population. In this calculation, the VOC emission levels in calendar year 2026 without benefit of the post 2012 control program are calculated. EMFAC2014 allows a user to input different VMT, starts, and vehicle population than default. For this calculation, EMFAC2014 was run without the benefit of the post 2012 control program for calendar year 2026 with the 2012 level of VMT of 26,535,577 miles per day, the 2012 level of starts at 4,469,778 per day, and the 2012 level of population at 706,039 vehicles. The VOC emissions associated with 2012 VMT, starts, and vehicle population in calendar year 2026 are 5.3 tons/day.

Calculation 3. Calculate emission reductions with full Implementation of Transportation Control Strategies & TCMs.

The VOC emission levels for 2026 assuming the benefits of the post-2012 motor vehicle control program and the projected VMT, starts, and vehicle population in 2026 are calculated using EMFAC2014. The projected VOC emissions level is 4.6 tons/day. VOC emissions for the three sets of calculations described above are summarized in the following table.

As provided in the U.S. EPA guidance, to determine compliance with the provisions of FCAA \$182(d)(1)(A), the emissions levels calculated in Calculation 3 should be less than the emissions levels in Calculation 2:

Summary of 2026	Attainment	Summary of 2026 Attainment Year Emissions Levels								
Description	VMT* (1000 miles/day)	Starts (1000/day)	Vehicle Population (1000s)	VOC Emissions** (tons/day)						
(1) Emissions with Motor Vehicle Control Program Frozen at 2012 Levels. (VMT, starts and vehicle population at 2026 levels.)	34,724	5,238	843	6.5						
(2) Emissions with Motor Vehicle Control Program Frozen at 2012 Levels. (VMT, starts, and vehicle population at 2012 levels)	26,536	4,470	706	5.3						

VOC: 4.6 < 5.3 tons/day

* CY 2026 VMT based on the SCAG 2016 RTP

** Does not include diurnal or resting loss emissions.

Summary

The previous sections provide an analysis to demonstrate compliance with the provisions of FCAA §182(d)(1)(A). To further illustrate the demonstration, Figure 5 below show graphically the emissions benefits of the motor vehicle control programs in offsetting VOC emissions due to increased VMT, starts, and vehicle population in the WMDONA for the 2008 8-hour ozone standard (2012 base year). The left bar (in purple) shows the emissions in the base year with base year controls. The three bars on the right in each figure show the emissions levels in the attainment year for the three calculations identified above: the red bar shows attainment year emissions with base year controls and attainment year VMT, starts, and vehicle population, the green bar shows attainment year emissions with base year controls, VMT, starts, and vehicle population. Based on the USEPA guidance, if the blue bar is lower than the green bar, then the identified transportation control strategies and TCMs are sufficient to offset the growth in emissions.

Figure 5 - VOC Emissions from WMDONA On-Road Mobile Sources (2012 Base Year)*



* Does not include resting or diurnal loss emissions

CHAPTER 4 – Attainment Demonstration

Modeling Approach Overview Modeling Domain Model Inputs Modeling Results This page intentionally left blank.

ATTAINMENT DEMONSTRATION

This chapter paraphrases and reiterates information from the most recent SCAQMD/CARB ozone model runs, the runs performed for the 2016 SCAQMD AQMP. For further information, please refer to Appendix V of that document.⁶

The FCAA required the use of photochemical air quality modeling to evaluate whether a proposed control strategy will result in attainment of the applicable ozone standard. Recognizing the uncertainty inherent in large-scale air quality models, recent Federal guidance has also required an evaluation of supplementary data, known as a weight of evidence analysis. A weight of evidence analysis can also be used to support an attainment demonstration if photochemical modeling indicates that the control strategy will result in future ozone concentration that will approach but not quite reach the standard - CARB will include a weight of evidence analysis in the State of California adoption staff report.

Modeling Approach Overview

The WMDONA, which includes the AVAQMD, is a small portion of the complex greater Southern California airshed. Ozone and ozone precursors are known to flow (or be transported), under the influence of winds, throughout Southern California. The most technically accurate method of evaluating ozone concentrations, ozone emissions, and future ozone behavior is through a large modeling project that includes all of the affected areas in Southern California (and a portion of northern Mexico). The modeling effort has been performed as a joint project by all of the air districts in the region and CARB, with SCAQMD and CARB staff and resources doing the primary work. This regional modeling effort has allowed the most accurate understanding and prediction of future ozone concentrations for Southern California.

The modeled attainment demonstration in this plan was prepared using photochemical dispersion and meteorological tools developed in response to USEPA modeling guidelines, and recommendations from air quality modeling experts. The Urban Airshed Model (UAM) is the regional modeling system preferred by USEPA and CARB for analyzing ozone non-attainment areas. The UAM predicts future ambient ozone concentrations under historical conditions that led to high ambient ozone concentrations. These conditions are typically multi-day 'episodes' in which the State and Federal ozone standards were exceeded. The UAM also evaluates ozone precursor emissions, local and regional meteorology, and regional topography to calculate ozone concentrations. These calculations are performed on an hourly basis throughout the modeled episode, thus allowing the UAM to stimulate changing conditions (i.e. night, day and wind).

Meteorological fields were generated using the Weather Research and Forecasting (WRF) meteorological model, and the required modeling emissions inventories were developed by CARB and SCAQMD staff. The ozone air quality modeling utilized the Comprehensive Air Quality Model with Extensions (CAMx) model and SAPRC99 chemistry, with initial and boundary conditions based on estimates of clean-air concentrations. Analysis of the model outputs included the estimation of 1-hour and 8-hour ozone concentrations for each ozone monitoring site within the domain, as well as statistical measures comparing observed and

⁶ "2016 AQMP Appendix V - Modeling and Attainment Demonstrations," SCAQMD, December 2016

simulated ozone concentrations. These analyses were used to evaluate model performance by sub-region within the domain.

Modeling Domain

The modeling domain is based on the domain defined for the 1997 Southern California Ozone Study and includes the SCAB and the surrounding coastal, desert and mountain areas, including the MDAQMD. This model domain includes the upwind sources within SCAQMD, which are responsible for the overwhelming ozone transport into the AVAQMD. The northern boundary of the model extends into Santa Barbara and Kern counties, while the southern boundary extends in Mexico. The eastern boundary of the modeling domain extends into the desert portions of San Bernardino and Riverside counties, while the western boundary extends into the Pacific Ocean. The domain horizontal grid is 154 by 102 cells, with a cell resolution of four kilometers. The domain has a vertical resolution of 18 layers.

Model Inputs

SCAQMD performed the UAM attainment demonstration using data maintained by CARB and MDAQMD. The emissions inventory used for the UAM is consistent with the emissions inventory presented in the appendices to this document.

Modeling Results

Future years are simulated twice using the UAM: first, using the uncontrolled emissions inventory; and second, using a reduced emissions inventory controlled by the proposed ozone control strategy. Comparing the uncontrolled and controlled ambient ozone concentrations identifies the effectiveness of the proposed ozone control strategy. Attainment year ambient ozone concentrations using the reduced emissions inventory controlled by the proposed ozone control strategy should achieve the ozone standard.

As required by federal guidance, a relative reduction factor (RRF) approach was used in projecting future design values. The RRF reflects the ratio between the future year model prediction (in this case the end of 2026) and the reference year model prediction (in this case 2012). A reference or base year design value is then multiplied by the RRF to project a future year design value. The modeling satisfies the minimum five episode requirement for use in developing a site-specific RRF for most sites, as recommended by the USEPA guidance for modeling 8-hour ozone design values.

Table 5 presents the photochemical ozone modeling results for the WMDONA, including Lancaster.

(all values ozone in ppb)							
			Мо	deled			
		Baseline	Forecast	Controlled			
Station		2012	2026	2023			
Phelan	0012	93.7	83.6	75.9			
Joshua Tree National Monument	9002	91.3	79.7	74.3			
Hesperia	4001	91.0	81.7	73.8			
Lancaster	9033	88.3	73.5	67.0			
Victorville	0306	84.7	77.6	71.0			
Barstow	0001	78.3	67.9	64.8			

Table 5 - 2026 Federal Ozone Attainment Demonstration

The modeling results show that the AVAQMD will attain the 8-hour ozone NAAQS (75 ppb) prior to the July 2027 attainment deadline for Severe ozone nonattainment areas.

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Appendices

- A Base Year Emission Inventory
- B Future Year Emission Inventories
- C Annual Ambient Monitoring Data Summary
- D Western Mojave Desert Modeling Analyses
- E Ozone RACM Assessment
- F ARB Adopted Mobile Source Programs

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<u>i</u> jj		
Stationary		
ELECTRIC UTILITIES	0.05	1.24
MANUFACTURING AND INDUSTRIAL	0.29	3.87
FOOD AND AGRICULTURAL PROCESSING	0.01	0.09
SERVICE AND COMMERCIAL	0.19	1.45
OTHER (FUEL COMBUSTION)	0.07	0.73
SEWAGE TREATMENT	0.12	0.00
LANDFILLS	0.16	0.02
INCINERATORS	0.00	0.06
OTHER (WASTE DISPOSAL)	0.05	0.00
DEGREASING	3.41	0.00
COATINGS AND RELATED PROCESS SOLVENTS	1.79	0.00
PRINTING	0.03	0.00
ADHESIVES AND SEALANTS	0.07	0.00
OTHER (CLEANING AND SURFACE COATINGS)	0.01	0.00
PETROLEUM MARKETING	5.52	0.00
CHEMICAL	0.50	0.01
FOOD AND AGRICULTURE	0.01	0.00
MINERAL PROCESSES	0.34	17.96
METAL PROCESSES	0.00	0.48
ELECTRONICS	0.01	0.00
OTHER (INDUSTRIAL PROCESSES)	0.18	1.60
Stationary Subtotal	12.81	27.51
Area-Wide		
CONSUMER PRODUCTS	4.49	0.00
ARCHITECTURAL COATINGS AND RELATED PROCESS SOLVENTS	2.45	0.00
PESTICIDES/FERTILIZERS	0.13	0.00
ASPHALT PAVING / ROOFING	0.31	0.00
RESIDENTIAL FUEL COMBUSTION	0.55	1.11
FARMING OPERATIONS	2.06	0.00
FIRES	0.02	0.00
MANAGED BURNING AND DISPOSAL	0.95	0.39
COOKING	0.45	0.00
Area-Wide Subtotal	11.40	1.50

All emissions are presented in tons per ozone seasonal day for the 2012 base year

On-Road Mobile		
LIGHT DUTY PASSENGER (LDA)	4 34	3 64
	1 45	1.06
LIGHT DUTY TRUCKS - 2 (LDT2)	1 94	2 40
	1.74	2.72
LIGHT HEAVY DUTY GAS TRUCKS - 1 (LHDV1)	0.72	0.95
LIGHT HEAVY DUTY GAS TRUCKS - 2 (LHDV2)	0.06	0.10
MEDIUM HEAVY DUTY GAS TRUCKS (MHDV)	0.14	0.22
HEAVY HEAVY DUTY GAS TRUCKS (HHDV)	0.04	0.08
LIGHT HEAVY DUTY DIESEL TRUCKS - 1 (LHDV1)	0.09	3.82
LIGHT HEAVY DUTY DIESEL TRUCKS - 2 (LHDV2)	0.03	1.12
MEDIUM HEAVY DUTY DIESEL TRUCKS (MHDV)	0.09	1.90
HEAVY HEAVY DUTY DIESEL TRUCKS (HHDV)	1.07	19.60
MOTORCYCLES (MCY)	1.35	0.46
HEAVY DUTY DIESEL URBAN BUSES (UB)	0.07	1.10
HEAVY DUTY GAS URBAN BUSES (UB)	0.04	0.11
SCHOOL BUSES - GAS (SBG)	0.02	0.02
SCHOOL BUSES - DIESEL (SBD)	0.02	0.26
OTHER BUSES - GAS (OBG)	0.02	0.06
OTHER BUSES - MOTOR COACH - DIESEL (OBC)	0.00	0.05
ALL OTHER BUSES - DIESEL (OBD)	0.00	0.05
MOTOR HOMES (MH)	0.04	0.19
On-Road Mobile Subtotal	13.28	39.93
Other Mobile		
AIRCRAFT	1.47	1.36
TRAINS	1.78	28.42
RECREATIONAL BOATS	0.27	0.05
OFF-ROAD RECREATIONAL VEHICLES	0.75	0.04
OFF-ROAD EQUIPMENT	1.57	2.16
FARMEQUIPMENT	0.03	0.12
FUEL STORAGE AND HANDLING	0.35	0.00
Other Mobile Subtotal	6.21	32.16
WMDONA Total	43.70	101.10

APPENDIX B - FUTURE YEAR EMISSION INVENTORIES

(all emissions in tons per ozone seasonal day unless otherwise indicated) VOC:

SUB CATEGORY	2012	2018	2020	2023	2026
FLECTBIC UTILITIES	0.05	0.04	0.04	0.05	0.05
MANUFACTURING AND INDUSTRIAL	0.29	0.36	0.39	0.41	0.43
FOOD AND AGRICULTURAL PROCESSING	0.01	0.00	0.01	0.01	0.01
SERVICE AND COMMERCIAL	0.19	0.30	0.35	0.41	0.45
OTHER (EUEL COMBUSTION)	0.07	0.07	0.07	0.07	0.08
SEWAGE TREATMENT	0.12	0.14	0.15	0.16	0.17
LANDEILLS	0.16	0.17	0.17	0.18	0.19
INCINERATORS	0.00	0.01	0.01	0.01	0.01
OTHER (WASTE DISPOSAL)	0.05	0.05	0.06	0.06	0.06
DEGREASING	3.41	4.62	5.07	5.69	6.19
COATINGS AND RELATED PROCESS SOLVENTS	1.79	2.32	2.52	2.76	2.95
PRINTING	0.03	0.05	0.05	0.06	0.07
ADHESIVES AND SEALANTS	0.07	0.10	0.11	0.12	0.13
OTHER (CLEANING AND SURFACE COATINGS)	0.01	0.01	0.01	0.01	0.01
PETROLEUM MARKETING	5.52	5.45	5.31	5.04	4.73
CHEMICAL	0.50	0.67	0.73	0.79	0.83
FOOD AND AGRICULTURE	0.01	0.02	0.02	0.02	0.02
MINERAL PROCESSES	0.34	0.44	0.47	0.50	0.52
ELECTRONICS	0.01	0.01	0.01	0.02	0.02
OTHER (INDUSTRIAL PROCESSES)	0.18	0.16	0.15	0.16	0.17
CONSUMER PRODUCTS	4.49	4.38	4.47	4.68	4.89
ARCHITECTURAL COATINGS AND RELATED PROCESS SOLVENTS	2.45	2.08	2.15	2.26	2.37
PESTICIDES/FERTILIZERS	0.13	0.20	0.20	0.20	0.20
ASPHALT PAVING / ROOFING	0.31	0.47	0.52	0.57	0.62
RESIDENTIAL FUEL COMBUSTION	0.55	0.54	0.54	0.54	0.54
FARMING OPERATIONS	2.06	2.06	2.06	2.06	2.06
FIRES	0.02	0.02	0.02	0.02	0.02
MANAGED BURNING AND DISPOSAL	0.95	0.96	0.96	0.97	0.98
COOKING	0.45	0.54	0.57	0.61	0.65
LIGHT DUTY PASSENGER (LDA)	4.34	2.30	1.95	1.65	1.47
LIGHT DUTY TRUCKS - 1 (LDT1)	1.45	0.71	0.59	0.47	0.38
LIGHT DUTY TRUCKS - 2 (LDT2)	1.94	1.12	0.94	0.80	0.71
MEDIUM DUTY TRUCKS (MDV)	1.74	1.33	1.16	0.93	0.78
LIGHT HEAVY DUTY GAS TRUCKS - 1 (LHDV1)	0.72	0.54	0.51	0.44	0.39
LIGHT HEAVY DUTY GAS TRUCKS - 2 (LHDV2)	0.06	0.04	0.04	0.03	0.02
MEDIUM HEAVY DUTY GAS TRUCKS (MHDV)	0.14	0.05	0.04	0.04	0.03
HEAVY HEAVY DUTY GAS TRUCKS (HHDV)	0.04	0.01	0.01	0.01	0.01
LIGHT HEAVY DUTY DIESEL TRUCKS - 1 (LHDV1)	0.09	0.07	0.07	0.05	0.04
LIGHT HEAVY DUTY DIESEL TRUCKS - 2 (LHDV2)	0.03	0.02	0.02	0.01	0.01
MEDIUM HEAVY DUTY DIESEL TRUCKS (MHDV)	0.09	0.04	0.02	0.01	0.01
HEAVY HEAVY DUTY DIESEL TRUCKS (HHDV)	1.07	0.21	0.20	0.14	0.16
MOTORCYCLES (MCY)	1.35	1.12	1.08	1.03	0.98
HEAVY DUTY DIESEL URBAN BUSES (UB)	0.07	0.04	0.03	0.02	0.02
HEAVY DUTY GAS URBAN BUSES (UB)	0.04	0.03	0.03	0.02	0.01
SCHOOL BUSES - GAS (SBG)	0.02	0.00	0.00	0.00	0.00
SCHOOL BUSES - DIESEL (SBD)	0.02	0.00	0.00	0.00	0.00
OTHER BUSES - GAS (OBG)	0.02	0.01	0.01	0.01	0.01
MOTOR HOMES (MH)	0.04	0.01	0.01	0.01	0.00
AIRCRAFT	1.47	1.47	1.47	1.51	1.56
TRAINS	1.78	0.90	0.70	0.61	0.49
RECREATIONAL BOATS	0.27	0.20	0.18	0.15	0.13
OFF-ROAD RECREATIONAL VEHICLES	0.75	0.65	0.63	0.59	0.57
OFF-ROAD EQUIPMENT	1.57	1.40	1.38	1.41	1.45
FARMEQUIPMENT	0.03	0.02	0.02	0.02	0.01
FUEL STORAGE AND HANDLING	0.35	0.25	0.24	0.22	0.20
Overall totals:	43.69	38.82	38.49	38.61	38.87

NOx:

SUB CATEGORY	2012	2018	2020	2023	2026
ELECTRIC UTILITIES	1.24	0.98	0.98	1.06	1.08
MANUFACTURING AND INDUSTRIAL	3.87	4.44	4.67	4.72	4.74
FOOD AND AGRICULTURAL PROCESSING	0.09	0.05	0.06	0.06	0.06
SERVICE AND COMMERCIAL	1.45	2.15	2.46	2.83	3.09
OTHER (FUEL COMBUSTION)	0.73	0.79	0.78	0.83	0.87
LANDFILLS	0.02	0.02	0.03	0.03	0.03
INCINERATORS	0.06	0.08	0.08	0.09	0.10
CHEMICAL	0.01	0.01	0.01	0.01	0.01
MINERAL PROCESSES	17.96	24.38	26.53	28.22	29.33
METAL PROCESSES	0.48	0.48	0.47	0.51	0.55
OTHER (INDUSTRIAL PROCESSES)	1.60	1.41	1.32	1.41	1.53
RESIDENTIAL FUEL COMBUSTION	1.11	0.92	0.91	0.90	0.89
MANAGED BURNING AND DISPOSAL	0.39	0.39	0.40	0.40	0.40
LIGHT DUTY PASSENGER (LDA)	3.64	2.00	1.64	1.28	1.04
LIGHT DUTY TRUCKS - 1 (LDT1)	1.06	0.47	0.37	0.27	0.19
LIGHT DUTY TRUCKS - 2 (LDT2)	2.40	1.15	0.88	0.65	0.50
MEDIUM DUTY TRUCKS (MDV)	2.72	1.60	1.28	0.86	0.61
LIGHT HEAVY DUTY GAS TRUCKS - 1 (LHDV1)	0.95	0.63	0.57	0.46	0.37
LIGHT HEAVY DUTY GAS TRUCKS - 2 (LHDV2)	0.10	0.07	0.06	0.05	0.04
MEDIUM HEAVY DUTY GAS TRUCKS (MHDV)	0.22	0.12	0.10	0.08	0.06
HEAVY HEAVY DUTY GAS TRUCKS (HHDV)	0.08	0.05	0.05	0.05	0.05
LIGHT HEAVY DUTY DIESEL TRUCKS - 1 (LHDV1)	3.82	2.60	2.29	1.75	1.33
LIGHT HEAVY DUTY DIESEL TRUCKS - 2 (LHDV2)	1.12	0.68	0.56	0.38	0.25
MEDIUM HEAVY DUTY DIESEL TRUCKS (MHDV)	1.90	1.14	0.83	0.44	0.50
HEAVY HEAVY DUTY DIESEL TRUCKS (HHDV)	19.60	9.71	8.87	4.41	4.60
MOTORCYCLES (MCY)	0.46	0.38	0.37	0.36	0.35
HEAVY DUTY DIESEL URBAN BUSES (UB)	1.10	0.61	0.48	0.35	0.25
HEAVY DUTY GAS URBAN BUSES (UB)	0.11	0.08	0.07	0.05	0.04
SCHOOL BUSES - GAS (SBG)	0.02	0.01	0.01	0.00	0.00
SCHOOL BUSES - DIESEL (SBD)	0.26	0.23	0.21	0.17	0.14
OTHER BUSES - GAS (OBG)	0.06	0.04	0.03	0.02	0.02
OTHER BUSES - MOTOR COACH - DIESEL (OBC)	0.05	0.03	0.03	0.01	0.01
ALL OTHER BUSES - DIESEL (OBD)	0.05	0.03	0.02	0.01	0.01
MOTOR HOMES (MH)	0.19	0.11	0.09	0.06	0.04
AIRCRAFT	1.36	1.37	1.37	1.41	1.46
TRAINS	28.42	22.03	19.41	16.36	12.54
RECREATIONAL BOATS	0.05	0.04	0.04	0.04	0.04
OFF-ROAD RECREATIONAL VEHICLES	0.04	0.05	0.05	0.06	0.06
OFF-ROAD EQUIPMENT	2.16	1.98	1.86	1.54	1.33
FARM EQUIPMENT	0.12	0.09	0.09	0.07	0.06
Overall totals:	101.09	83.40	80.29	72.24	68.56

APPENDIX C - ANNUAL AMBIENT MONITORING DATA SUMMARY

	Max 1-	-Hr Ozone (ppm)		Max 8-Hour Ozone (ppm)		
	Maximum	Design Value Trend		Maximum	Design Value Trend	
1990	0.15		1990	0.106		
1991	0.14		1991	0.111		
1992	0.17	0.153	1992	0.137	0.118	
1993	0.16	0.157	1993	0.127	0.125	
1994	0.14	0.157	1994	0.112	0.125	
1995	0.14	0.147	1995	0.112	0.117	
1996	0.13	0.137	1996	0.104	0.109	
1997	0.12	0.130	1997	0.101	0.106	
1998	0.16	0.137	1998	0.118	0.108	
1999	0.10	0.127	1999	0.083	0.101	
2000	0.14	0.133	2000	0.117	0.106	
2001	0.15	0.129	2001	0.102	0.101	
2002	0.16	0.149	2002	0.107	0.109	
2003	0.16	0.154	2003	0.120	0.110	
2004	0.12	0.146	2004	0.101	0.109	
2005	0.13	0.136	2005	0.103	0.108	
2006	0.13	0.128	2006	0.105	0.103	
2007	0.12	0.127	2007	0.101	0.103	
2008	0.12	0.122	2008	0.102	0.103	
2009	0.12	0.119	2009	0.102	0.102	
2010	0.11	0.115	2010	0.096	0.100	
2011	0.12	0.115	2011	0.100	0.099	
2012	0.11	0.111	2012	0.096	0.098	
2013	0.11	0.112	2013	0.094	0.100	
2014	0.10	0.107	2014	0.088	0.096	
2015	0.13	0.114	2015	0.103	0.102	
2016	0.12	0.116	2016	0.098	0.096	

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APPENDIX D – WESTERN MOJAVE DESERT MODELING ANALYSES

(prepared by SCAQMD staff)

Statistical Evaluation

The statistics used to evaluate 8-hour average CMAQ ozone performance include the following: <u>Statistic for O₃</u>
<u>Definition</u>

Daily-Max Bias Error Unpaired

Daily-Max Bias Error Paired

Average of the differences in observed and predicted daily maximum values. Negative values indicate under-prediction.

$$BiasError = \frac{1}{N}\sum(Obs - Pred)$$

Average of the differences in daily maximum observed value and the corresponding predicted concentration at the hour that the observational maximum was reached. Negative values indicate under-prediction.

$$BiasError = \frac{1}{N}\sum(Obs - Pred)$$

Average of the absolute differences in observed and predicted daily maximum values

$$GrossError = \frac{1}{N}\sum |Obs - Pred|$$

Average of the absolute differences in daily maximum observed value and the corresponding predicted concentration at the hour that the observational maximum was reached.

$$GrossError = \frac{1}{N}\sum |Obs - Pred|$$

Average of the quantity: difference in observed and predicted daily maximum values normalized by the observed daily maximum values. Negative values indicate under-prediction.

NormBiasError =
$$\frac{1}{N} \sum \left(\frac{Obs - Pred}{Obs} \right) \cdot 100$$

Average of the quantity: difference in daily maximum observed value and the corresponding predicted concentration at the hour that the observational maximum was reached normalized by the observed daily maximum concentration. Negative values indicate under-prediction.

Daily-Max Gross Error Unpaired

Daily-Max Gross Error Paired

Normalized Daily-Max Bias Error Unpaired

Normalized Daily-Max Bias Error Paired

NormBiasError =
$$\frac{1}{N} \sum \left(\frac{Obs - Pred}{Obs} \right) \cdot 100$$

Normalized Daily-Max Gross Error Unpaired

Normalized Daily-Max Gross Error Paired

Average of the quantity: absolute difference in observed and predicted daily maximum values normalized by the observed daily maximum concentration

NormGrossError =
$$\frac{1}{N} \sum \left| \frac{Obs - Pred}{Obs} \right| \cdot 100$$

Average of the quantity: absolute difference in daily maximum observed value and the corresponding predicted concentration at the hour that the observational maximum was reached normalized by the observed daily maximum concentration

NormGrossError =
$$\frac{1}{N} \sum \left| \frac{Obs - Pred}{Obs} \right| \cdot 100$$

Difference in the maximum of the observed daily maximum and the maximum of the predicted daily maximum normalized by the maximum of the observed daily maximum

$$PPA = \frac{(maximum(Pred) - maximum(Obs))}{maximum(Pred)}$$

Predicted concentrations are extracted from model output in the grid cell that each monitoring station resides.

We evaluated the base year average regional model performance for May through September 2012 for days when Basin maximum 8-hour ozone levels were at least 60 ppb. Ozone performance criteria are presented in Table 1. Only stations with more than 74.5% (EPA's data completeness requirement) of the hourly measurements during each month of the ozone season were included in the analysis.

Ozone measurements from monitors in Blythe, Black Rock Canyon (Joshua Tree National Monument), Hesperia, Kelso (Mojave National Preserve), Victorville, Phelan, and Barstow were compiled for the analysis.

Peak Prediction Accuracy Unpaired

TABLE 1

2012 Base Year 8-Hour Average Ozone Performance for Days When Regional 8-Hour Maximum ≥ 60 ppb

Region	egion Mojave_Desert														
				Daily-	Daily-						Norm	Norm	Norm	Norm	
				Max	Max	Daily-	Daily-	Daily-	Daily-	Daily-	Daily-	Daily-	Daily-	Daily-	Peak
			Number	Mean	Mean	Max	Max Bias	Max Bias	Max	Max	Max Bias	Max Bias	Max	Max	Predict.
	Mean	Mean	of Daily	Pred.	Pred.	Mean	Err.	Err.	Gross Err.	Gross Err.	Err.	Err.	Gross Err.	Gross Err.	Accuracy
	Pred.	Obs.	Max > 60	Unpaired	Paired	Obs.	Unpaired	Paired	Unpaired	Paired	Unpaired	Paired	Unpaired	Paired	Unpaired
Month	[ppb]	[ppb]	ppb	[ppb]	[ppb]	[ppb]	[ppb]	[ppb]	[ppb]	[ppb]	[%]	[%]	[%]	[%]	[ppb]
May	56.2	58.8	210	66.4	64.6	70.7	-4.3	-6	6.6	7.7	-7.1	-10.3	10.2	12.6	-2.4
Jun	52	56.6	210	64.1	62.1	69.5	-5.4	-7.4	8.8	9.7	-10.3	-14.1	15.2	17.5	-1.5
Jul	47.4	52	207	58.5	54.9	64.2	-5.3	-8.7	10.2	12	-10.5	-18.2	18.9	24.2	-19.1
Aug	48.3	49.9	217	61	57.5	63.5	-2.5	-6	7.9	9.6	-5.4	-12.2	14.4	18.5	-12.3
Sep	42.6	43.8	175	53.5	50.7	57	-3.5	-6.3	8.9	10.4	-8.8	-17.6	18.7	25.5	-3.4

AVAQMD Federal 75 ppb Ozone Attainment Plan 03/21/2017 Density scatter plots displaying all 25,047 eight-hour ozone measurements from all monitors in the region is shown in Figure 1.



Figure 1: Density scatter plot of all 8-hour ozone values in the air district. Dashed lines indicate the bounds of 10% agreement

The model predicts 8-hour measurements well. Some values are slightly underpredicted between 40 and 65 ppb. However, performance is relatively robust at higher observational values. Since the ozone standards are based on the daily maximum ozone values, model prediction of higher concentrations is more consequential. Figure 2 illustrate the model performance of daily maximum 8-hour ozone.



Figure 2: Density scatter plot of 8-hour daily maximum values in the air district. Dashed lines indicate the bounds of 10% agreement.

Daily maxima are slightly under-predicted, but most of the data lie within 10% of the measured values.

The model performance of 8-hour ozone at each specific station in the air basin is illustrated in Figures 3-9.



Figure 3: Eight-hour ozone daily maxima model performance at Blythe (06-065-9003).



Figure 4: Eight-hour ozone daily maxima model performance at Black Rock Canyon (06-071-9002).



Figure 5: Eight-hour daily maxima model performance at Hesperia (06-071-4001).



Figure 6: Eight-hour daily maxima model performance at Kelso (06-071-1001).



Figure 7: Eight-hour daily maxima model performance at Victorville (06-071-0306).



Figure 8: Eight-hour daily maxima model performance at Phelan (06-071-0012).



Figure 9: Eight-hour daily maxima model performance at Barstow (06-071-0001).

Base and Future Year Design Values

Table 2 details the base and future year design values for all stations with design values that meet the data completeness criteria. The base design value represents the 5-year weighted 8-hr ozone design value from 2012. Future design values were determined with comprehensive meteorological and chemical transport modelling and spatially resolved emissions projections. The Western Mojave Desert stations are expected to exceed the 75 ppb 8-hour ozone standard in 2026 if no additional emission reductions are introduced beyond already adopted controls. However, if emission reductions required to attain the 80 ppb 1997 8-hour ozone standard are implemented in 2023 in the South Coast Air Basin, the ozone in the Western Mojave Desert is expected to attain the 75 ppb standard. Detailed ozone concentrations in the base year (2012) and future milestone years (2023 and 2026) are presented in Table 2.

Station Name	Station Number	2012 Design Value	2026 Design Value	2023 with controls in the South Coast Air Basin
Barstow	06-071-0001	78.3	67.9	64.8
Phelan-Beekley Road and Phelan Road	06-071-0012	93.7	83.6	75.9
Victorville-14306 Park Ave	06-071-0306	84.7	77.6	71.0
Hesperia-Olive Street	06-071-4001	91.0	81.7	73.8
Joshua Tree-National Monument	06-071-9002	91.3	79.7	74.3
Lancaster-43301 Division Street	06-037-9033	88.3	73.5	67.0

TABLE 2Base Year and Future Year Design Values

Unmonitored Area Analysis

An unmonitored area analysis was conducted to estimate 8-hour ozone design values in unmonitored locations. This analysis uses both the measurement design values and the modelled ozone profiles throughout the modeling domain. Details of this analysis are presented in Appendix 5, Chapter 5 of the 2016 SCAQMD AQMP. The same procedures and methodology were used for the South Coast Air Basin unmonitored area analysis.

The same interpolation scheme was used to calculate the spatial distribution of design values throughout the Mojave Desert Air Pollution Management District. Figure 1 illustrates the interpolated measured design value field.



Figure 1: Interpolated 5-year weighted 2012 design values

The relative response factors representing the ratio between the 2023 simulated ozone and the base-year (2012) simulated ozone are presented below in Figure 2.



Figure 2: 2023 RRF Fields

The relative response factors suggest that ozone will decrease faster in western areas of the air basin. The western portions of the district along the Arizona border will exhibit the slowest decrease in future ozone concentrations.

The calculated RRF field is then used to project the interpolated measurement field to simulate future year concentrations. Figure 3 shows the predicted future ozone concentrations for 2023 in the Mojave Desert Air Basin.



Figure 3: 2023 Predicted 8-hr Ozone Design Values. Monitoring stations are notated with black dots.

The southwestern corner of the Mojave Desert Air Basin bordering the South Coast Air Basin is projected to exhibit the highest concentrations. The maximum ozone design value is projected to be 80.2 ppb.

APPENDIX E - OZONE RACM ASSESSMENT

(prepared by CARB staff)

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California Mobile Source Control Program Ozone Reasonable Available Control Measures Assessment

Overview

To fulfill Clean Air Act (the Act) control measure requirements for ozone nonattainment areas an assessment of control measures in the SIP must be performed. For ozone nonattainment areas, the control measures must be shown to be Reasonable Available Control Measures (RACM). Since ARB is responsible for measures to reduce emissions from mobile sources needed to attain the national ambient air quality standards (standards), this chapter will discuss how California's mobile source measures meet RACM.

Given the severity of California's air quality challenges, ARB has implemented the most stringent mobile source emissions control program in the nation. ARB's comprehensive strategy to reduce emissions from mobile sources includes stringent emissions standards for new vehicles, in-use programs to reduce emissions from existing vehicle and equipment fleets, cleaner fuels that minimize emissions, and incentive programs to accelerate the penetration of the cleanest vehicles beyond that achieved by regulations alone. Taken together, California's mobile program meets RACM requirements in the context of ozone nonattainment.

RACM Requirements

Subpart 1, section 172(c)(1) of the Act requires SIPs to provide for the implementation of RACM as expeditiously as practicable. U.S. EPA has interpreted RACM to be those emission control measures that are technologically and economically feasible and when considered in aggregate, would advance the attainment date by at least one year.

ARB developed its State SIP Strategy through a multi-step measure development process, including extensive public consultation, to develop and evaluate potential strategies for mobile source categories under ARB's regulatory authority that could contribute to expeditious attainment of the standard. First, ARB developed a series of technology assessments for heavy-duty mobile source applications and the fuels necessary to power them⁷ along with ongoing review of advanced vehicle technologies for the light-duty sector in collaboration with U.S. EPA and the National Highway Traffic Safety Administration. ARB staff then used a scenario planning tool to examine the magnitude of technology penetration necessary, as well as how quickly technologies need to be introduced to meet attainment of the standard.

ARB staff released a discussion draft Mobile Source Strategy⁸ for public comment in October 2015. This strategy specifically outlined a coordinated suite of proposed

⁷ Technology and Fuel assessments <u>http://www.arb.ca.gov/msprog/tech/tech.htm</u>

⁸ 2016 Mobile Source Strategy <u>http://www.arb.ca.gov/planning/sip/2016sip/2016mobsrc.htm</u>
actions to not only meet federal air quality standards, but also achieve greenhouse gas emission reduction targets, reduce petroleum consumption, and decrease health risk from transportation emissions over the next 15 years. ARB staff held a public workshop on October 16, 2015 in Sacramento, and on October 22, 2015, ARB held a public Board meeting to update the Board and solicit public comment on the Mobile Source Strategy in Diamond Bar.

Staff continued to work with stakeholders to refine the measure concepts for incorporation into related planning efforts including the 75 ppb 8-hour ozone SIPs. On May 16, 2016, ARB released an updated Mobile Source Strategy and on May 17, 2016 ARB released the proposed State SIP strategy for a 45-day public comment period.

The current mobile source program and proposed measures included in the State SIP Strategy provide attainment of the ozone standard as expeditiously as practicable and meet RFP requirements.

Waiver Approvals

While the Act preempts most states from adopting emission standards and other emission-related requirements for new motor vehicles and engines, it allows California to seek a waiver or authorization from the federal preemption to enact emission standards and other emission-related requirements for new motor vehicles and engines and new and in-use off-road vehicles and engines that are at least as protective as applicable federal standards, except for locomotives and engines used in farm and construction equipment which are less than 175 horsepower (hp).

Over the years, California has received waivers and authorizations for over 100 regulations. The most recent California standards and regulations that have received waivers and authorizations are Advanced Clean Cars (including ZEV and LEV III) for Light-Duty vehicles, and On-Board Diagnostics, Heavy-Duty Idling, Malfunction and Diagnostics System, In-Use Off-Road Diesel Fleets, Large Spark Ignition Fleet, Mobile Cargo Handling Equipment for Heavy-Duty engines. Other Authorizations include Off-Highway Recreational Vehicles and the Portable Equipment Registration Program.

Finally, ARB obtained an authorization from U.S. EPA to enforce adopted emission standards for off-road engines used in yard trucks and two-engine sweepers. ARB adopted the off-road emission standards as part of its "Regulation to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen and Other Criteria Pollutants from In-Use Heavy-Duty Diesel-Fueled Vehicles," (Truck and Bus Regulation). The bulk of the regulation applies to in-use heavy-duty diesel on-road motor vehicles with a gross vehicle weight rating in excess of 14,000 pounds, which are not subject to preemption under section 209(a) of the Act and do not require a waiver under section 209(b).

Light- and Medium-Duty Vehicles

Light- and medium-duty vehicles are currently regulated under California's Advanced Clean Cars program including the Low-Emission Vehicle III (LEV III) and Zero-Emission Vehicle (ZEV) programs. Other California programs such as the 2012 Governor Brown Executive Order to put 1.5 million zero-emission vehicles on the road by 2025, and California's Reformulated Gasoline program (CaRFG) will produce substantial and cost-effective emission reductions from gasoline-powered vehicles.

ARB is also active in implementing programs for owners of older dirtier vehicles to retire them early. The "car scrap" programs, like the Enhanced Fleet Modernization Program, and Clean Vehicle Rebate Project provide monetary incentives to replace old vehicles with zero-emission vehicles. The Air Quality Improvement Program (AQIP), is a voluntary incentive program to fund clean vehicle.

Taken together, California's emission standards, fuel specifications, and incentive programs for on-road light- and medium-duty vehicles represent all measures that are technologically and economically feasible within California.

Heavy-Duty Vehicles

California's heavy-duty vehicle emissions control program includes requirements for increasingly tighter new engine standards and address vehicle idling, certification procedures, on-board diagnostics, emissions control device verification, and in-use vehicles. This program is designed to achieve an on-road heavy-duty diesel fleet with 2010 engines emitting 98 percent less NOx and PM2.5 than trucks sold in 1986.

Most recently in the ongoing efforts to go beyond federal standards and achieve further reductions, ARB adopted the Optional Reduced Emissions Standards for Heavy-Duty Engines regulation in 2014 that establishes the new generation of optional NOx emission standards for heavy-duty engines.

The recent in-use control measures include On-Road Heavy-Duty Diesel Vehicle (In-Use) Regulation, Drayage (Port or Rail Yard) Regulation, Public Agency and Utilities Regulation, Solid Waste Collection Vehicle Regulation, Heavy-Duty (Tractor-Trailer) Greenhouse Gas Regulation, ATCM to Limit Diesel-Fueled Commercial Motor Vehicle Idling, Heavy-Duty Diesel Vehicle Inspection Program, Periodic Smoke Inspection Program, Fleet Rule for Transit Agencies, Lower-Emission School Bus Program, and Heavy-Duty Truck Idling Requirements. In addition, ARB's significant investment in incentive programs provides an additional mechanism to achieve maximum emission reductions from this source sector.

Taken together, California's emission standards, fuel specifications, and incentive programs for heavy-duty vehicles represent all measures that are technologically and economically feasible within California.

Off-Road Vehicles and Engines

California regulations for off-road equipment include not only increasingly stringent standards for new off-road diesel engines, but also in-use requirements and idling restrictions.

The Off-Road Regulation is an extensive program designed to accelerate the penetration of the cleanest equipment into California's fleets, and impose idling limits on off-road diesel vehicles. The program goes beyond emission standards for new engines through comprehensive in-use requirements for legacy fleets.

Engines and equipment used in agricultural processes are unique to each process and are often re-designed and tailored to their particular use. Fleet turnover to cleaner engines is the focus for these engines.

Taken together, California's comprehensive suite of emission standards, fuel specifications, and incentive programs for off-road vehicles and engines represent all measures that are technologically and economically feasible within California and when considered in aggregate, would advance the attainment date by at least one year.

Other Sources and Fuels

The emission limits established for other mobile source categories, coupled with U.S. EPA waivers and authorization of preemption establish that California's programs for motorcycles, recreational boats, off-road recreational vehicles, cargo handling equipment, and commercial harbor craft sources meet the requirements for RACM.

Cleaner burning fuels also play an important role in reducing emissions from motor vehicles and engines as ARB has adopted a number of more stringent standards for fuels sold in California, including the Reformulated Gasoline program, low sulfur diesel requirements, and the Low Carbon Fuel Standard. These fuel standards, in combination with engine technology requirements, ensure that California's transportation system achieves the most effective emission reductions possible.

Taken together, California's emission standards, fuel specifications, and incentive programs for other mobile sources and fuels represent all measures that are technologically and economically feasible within California.

Summary

California's long history of comprehensive and innovative emissions control has resulted in the most stringent mobile source control program in the nation. U.S. EPA has previously acknowledged the strength of the program in their approval of ARB's regulations and through the waiver process. In its 2014 approval of the Western Mojave Desert's 8-hour ozone plan, which included the State's current mobile source control program, U.S. EPA found that there were no further reasonably available control measures that would advance attainment of the standard in the Western Mojave Desert.

Since then, ARB has continued to substantially enhance and accelerate reductions from our mobile source control programs through the implementation of more stringent engine emissions standards, in-use requirements, incentive funding, and other policies and initiatives as described in the preceding sections.

ARB finds that with the current mobile source control program, there are no additional reasonable available control measures that would advance attainment of the 75 ppb 8-hour ozone standard in the Western Mojave Desert. There are no reasonable regulatory control measures excluded from use in this plan; therefore, there are no emissions reductions associated with unused regulatory control measures. As a result, California's mobile source control programs fully meet the requirements for RACM.

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APPENDIX F - CARB ADOPTED MOBILE SOURCE PROGRAMS

(prepared by CARB staff)

Key Mobile Source Regulations and Programs Providing Emission Reductions

Given the severity of California's air quality challenges and the need for ongoing emission reductions, the Air Resources Board (ARB) has implemented the most stringent mobile source emissions control program in the nation. ARB's comprehensive program relies on four fundamental approaches:

- stringent emissions standards that minimize emissions from new vehicles and equipment;
- in-use programs that target the existing fleet and require the use of the cleanest vehicles and emissions control technologies;
- cleaner fuels that minimize emissions during combustion; and,
- incentive programs that remove older, dirtier vehicles and equipment and pay for early adoption of the cleanest available technologies.

This multi-faceted approach has spurred the development of increasingly cleaner technologies and fuels and achieved significant emission reductions across all mobile source sectors that go far beyond national programs or programs in other states. These efforts extend back to the first mobile source regulations adopted in the 1960s, and pre-date the federal Clean Air Act Amendments (Act) of 1970, which established the basic national framework for controlling air pollution. In recognition of the pioneering nature of ARB's efforts, the Act provides California unique authority to regulate mobile sources more stringently than the federal government by providing a waiver of preemption for its new vehicle emission standards under Section 209(b). This waiver provision preserves a pivotal role for California in the control of emissions from new motor vehicles, recognizing that California serves as a laboratory for setting motor vehicle emission standards. Since then, the ARB has consistently sought and obtained waivers and authorizations for its new motor vehicle regulations. ARB's history of progressively strengthening standards as technology advances, coupled with the waiver process requirements, ensures that California's regulations remain the most stringent in the nation. A list of regulatory actions ARB has taken since 1985 is provided at the end of this analysis to highlight the scope of ARB's actions to reduce mobile source emissions

Recently, ARB adopted numerous regulations aimed at reducing exposure to diesel particulate matter and oxides of nitrogen, from freight transport sources like heavy duty diesel trucks, transportation sources like passenger cars and buses, and off-road sources like large construction equipment. Phased implementation of these regulations will produce increasing emission reduction benefits from now until 2020 and beyond, as the regulated fleets are retrofitted, and as older and dirtier portions of the fleets are replaced with newer and cleaner models at an accelerated pace.

Further, ARB, Mojave Desert AQMD, and Antelope Valley AQMD staffs work closely on identifying and distributing incentive funds to accelerate cleanup of engines. Key

incentive programs include: the Carl Moyer Program; the Goods Movement Program; the Lower-Emission School Bus Program; and the Air Quality Improvement Program (AQIP). These incentive-based programs work in tandem with regulations to accelerate deployment of cleaner technology.

Light-Duty Vehicles

Figure 1 illustrates the trend in NOx emissions from light-duty vehicles and key programs contributing to those reductions. As a result of these efforts, light-duty vehicle emissions in the Western Mojave Desert have been reduced significantly since 1990 and will continue to go down through 2020 due to the benefits of ARB's longstanding light-duty mobile source program. Key light-duty programs include Advanced Clean Cars, On-Board Diagnostics, Reformulated Gasoline, Incentive Programs, and the Enhanced Smog Check Program.



Figure 1: Key Programs to Reduce Light-Duty NOx Emissions

Since setting the nation's first motor vehicle exhaust emission standards in 1966 that led to the first pollution controls, California has dramatically tightened emission standards for light-duty vehicles. Through ARB regulations, today's new cars pollute 99 percent less than their predecessors did thirty years ago. In 1970, ARB required auto manufacturers to meet the first standards to control NOx emissions along with hydrocarbon emissions. The simultaneous control of emissions from motor vehicles and fuels led to the use of cleaner-burning reformulated gasoline (RFG) that has removed the emissions equivalent of 3.5 million vehicles from California's roads. Since ARB first adopted it in 1990, the Low Emission Vehicle Program (LEV and LEV II) and Zero-Emission Vehicle (ZEV) Program have resulted in the production and sales of hundreds of thousands of zero-emission vehicles (ZEVs) in California.

Advanced Clean Cars

ARB's groundbreaking Advanced Clean Cars (ACC) program is now providing the next generation of emission reductions in California, and ushering in a new zero emission passenger transportation system. The success of these programs is evident: California is the world's largest market for Zero Emission Vehicles (ZEVs), with over 21 models available today, and a wide variety are now available at lower price points, attracting new consumers. As of January 2015, Californians drive 40 percent of all ZEVs on the road in the United States, while the U.S. makes up about half of the world market. This movement towards commercialization of advanced clean cars has occurred due to ARB's ZEV regulation, part of ACC, which affects passenger cars and light-duty trucks.

ARB's ACC Program, approved in January 2012, is a pioneering approach of a 'package' of regulations that although separate in construction, are related in terms of the synergy developed to address both ambient air quality needs and climate change. The ACC program combines the control of smog, soot causing pollutants and greenhouse gas emissions into a single coordinated package of requirements for model years 2015 through 2025. The program assures the development of environmentally superior cars that will continue to deliver the performance, utility, and safety vehicle owners have come to expect.

The ACC program approved by ARB in January 2012 also included amendments affecting the current ZEV regulation through the 2017 model year in order to enable manufacturers to successfully meet 2018 and subsequent model year requirements. These ZEV amendments are intended to achieve commercialization through simplifying the regulation and pushing technology to higher volume production in order to achieve cost reductions. The ACC Program benefits will increase over time as new cleaner cars enter the fleet displacing older and dirtier vehicles.

On Board Diagnostics

California's first OBD regulation required manufacturers to monitor some of the emission control components on vehicles starting with the 1988 model year. In 1989, ARB adopted OBD II, which required 1996 and subsequent model year passenger cars, light-duty trucks, and medium-duty vehicles and engines to be equipped with second generation OBD systems. OBD systems are designed to identify when a vehicle's emission control systems or other emission-related computer-controlled components are malfunctioning, causing emissions to be elevated above the vehicle manufacturer's specifications. ARB subsequently strengthened OBD II requirements and added OBD II specific enforcement requirements for 2004 and subsequent model year passenger cars, light-duty trucks, and medium-duty vehicles and engines.

Reformulated Gasoline

Since 1996, ARB has been regulating the formulation of gasoline resulting in California gasoline being the cleanest in the world. California's cleaner-burning gasoline regulation is one of the cornerstones of the State's efforts to reduce air pollution and cancer risk. Reformulated gasoline is fuel that meets specifications and requirements established by ARB. The specifications reduced motor vehicle toxics by about 40 percent and reactive organic gases by about 15 percent. The results from cleaning up fuel can have an immediate impact as soon as it is sold in the State. Vehicle manufacturers design low-emission emission vehicle to take full advantage of cleaner-burning gasoline properties.

Incentive Programs

There are a number of different incentive programs focusing on light-duty vehicles that produce extra emission reductions beyond traditional regulations. The incentive programs work in two ways, encouraging the retirement of dirty older cars and encouraging the purchase of a cleaner vehicle.

Voluntary accelerated vehicle retirement or "car scrap" programs provide monetary incentives to vehicle owners to retire older, more polluting vehicles. The purpose of these programs is to reduce fleet emissions by accelerating the turnover of the existing fleet and subsequent replacement with newer, cleaner vehicles. Both State and local vehicle retirement programs are available.

California's voluntary vehicle retirement program is administered by the Bureau of Automotive Repair (BAR) and provides \$1,000 per vehicle and \$1,500 for low-income consumers for unwanted vehicles that have either failed or passed their last Smog Check Test and that meet certain eligibility guidelines. This program is referred to as the Consumer Assistance Program.

The Enhanced Fleet Modernization Program (EFMP) was approved by the AB 118 legislation to augment the State's existing vehicle retirement program. Approximately \$30 million is available annually through 2015 to fund the EFMP via a \$1 increase in vehicle registration fees. ARB developed the program in consultation with BAR. The program is jointly administered by both BAR for vehicle retirement, and local air districts for vehicle replacement.

Other programs, in addition to vehicle retirement programs, help to clean up the light-duty fleet. The AQIP, established by AB 118, is an ARB voluntary incentive program to fund clean vehicle and equipment projects. The Clean Vehicle Rebate Project (CVRP) is one of the current projects under AQIP. CVRP, started in 2009, is designed to accelerate widespread commercialization of zero-emission vehicles and plug-in hybrid electric vehicles by providing consumer rebates up to \$2,500 to partially offset the higher cost of these advanced technologies. The CVRP is administered statewide by the California Center for Sustainable Energy. In Fiscal Years 2009-2012,

\$26.1 million, including \$2 million provided by the California Energy Commission, funded approximately 8,000 rebates. In June 2012, the ARB allocated up to \$15-21 million to the CVRP as outlined in the AQIP FY2012-2013 Funding Plan.

California Enhanced Smog Check Program

BAR is the state agency charged with administration and implementation of the Smog Check Program. The Smog Check Program is designed to reduce air pollution from California registered vehicles by requiring periodic inspections for emission-control system problems, and by requiring repairs for any problems found. In 1998, the Enhanced Smog Check program began in which Smog Check stations relied on the BAR-97 Emissions Inspection System (EIS) to test tailpipe emissions with either a Two-Speed Idle (TSI) or Acceleration Simulation Mode (ASM) test depending on where the vehicle was registered. For instance, vehicles registered in urbanized areas received an ASM test, while vehicles in rural areas or received a TSI test.

In 2009, the following requirements were added in to improve and enhance the Smog Check Program, making it more inclusive of motor vehicles and effective on smog reductions:

- Low pressure evaporative test;
- More stringent pass/fail cutpoints;
- Visible smoke test; and
- Inspection of light- and medium-duty diesel vehicles.

The next major change was due to AB 2289, adopted in October 2010, a new law restructuring California's Smog Check Program, streamlining and strengthening inspections, increasing penalties for misconduct, and reducing costs to motorists. This new law sponsored by ARB and BAR, promised faster and less expensive Smog Check inspections by talking advantage of OBD software installed on all vehicles since 2000. The new law also directs vehicles without this equipment to high-performing stations, helping to ensure that these cars comply with current emission standards. This program will reduce consumer costs by having stations take advantage of diagnostic software that monitors pollution-reduction components and tailpipe emissions. Beginning mid-2013, testing of passenger vehicles using OBD was required on all vehicles model years 2000 or newer.

Heavy-Duty Trucks

Figure 2 illustrates the trend in NOx emissions from heavy-duty vehicles and key programs contributing to those reductions. As a result of these efforts, heavy-duty vehicle emissions in the Western Mojave Desert have also been reduced significantly since 1990 and will continue to go down through 2020 due to the benefits of ARB's longstanding heavy-duty mobile source program. Key programs include Heavy-Duty

Engine Standards, Clean Diesel Fuel, Truck and Bus Regulation and Incentive Programs.





Heavy-Duty Engine Standards

Since 1990, heavy-duty engine NOx emission standards have become dramatically more stringent, dropping from 6 grams per brake horsepower-hour (g/bhp-hr) in 1990 down to the current 0.2 g/bhp-hr standard, which took effect in 2010. In addition to mandatory NOx standards, there have been several generations of optional lower NOx standards put in place over the past 15 years. Most recently in 2015, engine manufacturers can certify to three optional NOx emission standards of 0.1 g/bhp-hr, 0.05 g/bhp-hr, and 0.02 g/bhp-hr (i.e., 50 percent, 75 percent, and 90 percent lower than the current mandatory standard of 0.2 g/bhp-hr). The optional standards allow local air districts and ARB to preferentially provide incentive funding to buyers of cleaner trucks, to encourage the development of cleaner engines.

Clean Diesel Fuel

Since 1993, ARB has required that diesel fuel have a limit on the aromatic hydrocarbon content and sulfur content of the fuel. Diesel powered vehicles account for a disproportionate amount of the diesel particulate matter which is considered a toxic air contaminant. In 2006, ARB required a low-sulfur diesel fuel to be used not only by on-road diesel vehicles but also for off-road engines. The diesel fuel regulation allows

alternative diesel formulations as long as emission reductions are equivalent to the ARB formulation.

Cleaner In-Use Heavy-Duty Trucks (Truck and Bus Regulation)

The Truck and Bus Regulation was first adopted in December 2008. This rule represents a multi-year effort to turn over the legacy fleet of engines and replace them with the cleanest technology available. In December 2010, ARB revised specific provisions of the in-use heavy-duty truck rule, in recognition of the deep economic effects of the recession on businesses and the corresponding decline in emissions.

Starting in 2012, the Truck and Bus Regulation phases in requirements applicable to an increasingly larger percentage of the truck and bus fleet over time, so that by 2023 nearly all older vehicles would need to be upgraded to have exhaust emissions meeting 2010 model year engine emissions levels. The regulation applies to nearly all diesel-fueled trucks and buses with a gross vehicle weight rating (GVWR) greater than 14,000 pounds that are privately or federally owned, including on-road and off-road agricultural yard goats, and privately and publicly owned school buses. Moreover, the regulation applies to any person, business, school district, or federal government agency that owns, operates, leases or rents affected vehicles. The regulation also establishes requirements for any in-state or out-of-state motor carrier, California-based broker, or any California resident who directs or dispatches vehicles subject to the regulation. Finally, California sellers of a vehicle subject to the regulation would have to disclose the regulation's potential applicability to buyers of the vehicles. Approximately 170,000 businesses in nearly all industry sectors in California, and almost a million vehicles that operate on California roads each year are affected. Some common industry sectors that operate vehicles subject to the regulation include: for-hire transportation, construction, manufacturing, retail and wholesale trade, vehicle leasing and rental, bus lines, and agriculture.

ARB compliance assistance and outreach activities that are key support of the Truck and Bus Regulation include:

- The Truck Regulations Upload and Compliance Reporting System, an online reporting tool developed and maintained by ARB staff;
- The Truck and Bus regulation's fleet calculator, a tool designed to assist fleet owners in evaluating various compliance strategies;
- Targeted training sessions all over the State; and
- Out-of-state training sessions conducted by a contractor.

ARB staff also develops regulatory assistance tools, conducts and coordinates compliance assistance and outreach activities, administers incentive programs, and actively enforces the entire suite of regulations. Accordingly, ARB's approach to ensuring compliance is based on a comprehensive outreach and education effort.

Incentive Programs

There are a number of different incentive programs focusing on heavy-duty vehicles that produce extra emission reductions beyond traditional regulations. The incentive programs encourage the purchase of a cleaner truck

Several State and local incentive funding pools have been used historically -- and remain available -- to fund the accelerated turnover of on-road heavy-duty vehicles. Since 1998, the Carl Moyer Program (Moyer Program) has provided funding for replacement, new purchase, repower and retrofit of trucks. Beginning in 2008, the Goods Movement Emission Reduction Program funded by Proposition 1B has funded cleaner trucks for the region's transportation corridors; the final increment of funds will implement projects through 2018.

The Air Quality Improvement Program has funded the Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP) since 2010, and continued Mojave Desert and Antelope Valley participation is expected. ARB has also administered a Truck Loan Assistance Program since 2009.

Off-Road Sources

Off-road sources encompass equipment powered by an engine that does not operate on the road. Sources vary from ships to lawn and garden equipment and for example, include sources like locomotives, aircraft, tractors, harbor craft, off-road recreational vehicles, construction equipment, forklifts, and cargo handling equipment. Figure 3 illustrates the trend in NOx emissions from off-road equipment and key programs contributing to those reductions. As a result of these efforts, off-road emissions in the Western Mojave Desert have been reduced significantly since 1990 and will continue to go down through 2020 due to the benefits of ARB's and U.S. EPA longstanding programs. Key programs include Off-Road Engine Standards, Locomotive Engine Standards, Clean Diesel Fuel, Cleaner In-Use Off-Road Regulation and In-Use LSI Fleet Regulation.



Figure 3: Key Programs to Reduce Off-Road Emissions

Off-Road Engine Standards

The Clean Air Act preempts states, including California, from adopting requirements for new off-road engines less than 175 HP used in farm or construction equipment. California may adopt emission standards for in-use off-road engines pursuant to Section 209(e)(2), but must receive authorization from U.S. EPA before it may enforce the adopted standards.

The Board first approved regulations to control exhaust emissions from small off-road engines (SORE) such as lawn and garden equipment in December 1990 with amendments in 1998 and 2003. These regulations were implemented through three tiers of progressively more stringent exhaust emission standards that were phased in between 1995 and 2008.

Manufacturers of forklift engines are subject to new engine standards for both diesel and Large Spark Ignition (LSI) engines. Off-road diesel engines were first subject to engine standards and durability requirements in 1996 while the most recent Tier 4 Final emission standards were phased in starting in 2013. Tier 4 emission standards are based on the use of advanced after-treatment technologies such as diesel particulate filters and selective catalytic reduction. LSI engines have been subject to new engine standards that include both criteria pollutant and durability requirements since 2001 with the cleanest requirements phased-in starting in 2010.

Locomotive Engine Standards

The Clean Air Act and the U.S. EPA national locomotive regulations expressly preempt states and local governments from adopting or enforcing "any standard or other requirement relating to the control of emissions from new locomotives and new engines used in locomotives" (U.S. EPA interpreted new engines in locomotives to mean remanufactured engines, as well). U.S. EPA has approved two sets of national locomotive emission regulations (1998 and 2008). In 1998, U.S. EPA approved the initial set of national locomotive emission regulations. These regulations primarily emphasized NOx reductions through Tier 0, 1, and 2 emission standards. Tier 2 NOx emission standards reduced older uncontrolled locomotive NOx emissions by up to 60 percent, from 13.2 to 5.5 g/bhphr.

In 2008, U.S. EPA approved a second set of national locomotive regulations. Older locomotives upon remanufacture are required to meet more stringent particulate matter (PM) emission standards which are about 50 percent cleaner than Tier 0-2 PM emission standards. U.S. EPA refers to the PM locomotive remanufacture emission standards as Tier 0+, Tier 1+, and Tier 2+. The new Tier 3 PM emission standard (0.1 g/bhphr), for model years 2012-2014, is the same as the Tier 2+ remanufacture PM emission standard. The 2008 regulations also included new Tier 4 (2015 and later model years) locomotive NOx and PM emission standards. The U.S. EPA Tier 4 NOx and PM emission standards further reduced emissions by approximately 95 percent from uncontrolled levels.

Clean Diesel Fuel

Since 1993, ARB has required that diesel fuel have a limit on the aromatic hydrocarbon content and sulfur content of the fuel. Diesel powered vehicles account for a disproportionate amount of the diesel particulate matter which is considered a toxic air contaminant. In 2006, ARB required a low-sulfur diesel fuel to be used not only by on-road diesel vehicles but also for off-road engines. The diesel fuel regulation allows alternative diesel formulations as long as emission reductions are equivalent to the ARB formulation.

Cleaner In-Use Off-Road Equipment (Off-Road Regulation)

The Off-Road Regulation which was first approved in 2007 and subsequently amended in 2010 in light of the impacts of the economic recession. These off-road vehicles are used in construction, manufacturing, the rental industry, road maintenance, and airport ground support and landscaping. In December 2011, the Off-Road Regulation was modified to include on-road trucks with two diesel engines.

The Off-Road Regulation will significantly reduce emissions of diesel PM and NOx from the over 150,000 in-use off-road diesel vehicles that operate in California. The

regulation affects dozens of vehicle types used in thousands of fleets by requiring owners to modernize their fleets by replacing older engines or vehicles with newer, cleaner models, retiring older vehicles or using them less often, or by applying retrofit exhaust controls.

The Off-Road Regulation imposes idling limits on off-road diesel vehicles, requires a written idling policy, and requires a disclosure when selling vehicles. The regulation also requires that all vehicles be reported to ARB and labeled, restricts the addition of older vehicles into fleets, and requires fleets to reduce their emissions by retiring, replacing, or repowering older engines, or installing verified exhaust retrofits. The requirements and compliance dates of the Off-Road Regulation vary by fleet size.

Fleets will be subject to increasingly stringent restrictions on adding older vehicles. The regulation also sets performance requirements. While the regulation has many specific provisions, in general by each compliance deadline, a fleet must demonstrate that it has either met the fleet average target for that year, or has completed the Best Available Control Technology requirements. The performance requirements of the Off-Road Regulation are phased in from January 1, 2014 through January 1, 2019.

Compliance assistance and outreach activities in support of the Off-Road Regulation include:

- The Diesel Off-road On-line Reporting System, an online reporting tool developed and maintained by ARB staff.
- The Diesel Hotline (866-6DIESEL), which provides the regulated public with questions about the regulations and access to ARB staff. Staff is able to respond to questions in English, Spanish and Punjabi.
- The Off-road Listserv, providing equipment owners and dealerships with timely announcement of regulatory changes, regulatory assistance documents, and reminders for deadlines.

LSI In-Use Fleet Regulation

Forklift fleets can be subject to either the LSI fleet regulation, if fueled by gasoline or propane, or the off-road diesel fleet regulation. Both regulations require fleets to retire, repower, or replace higher-emitting equipment in order to maintain fleet average standards. The LSI fleet regulation was originally adopted in 2007 with requirements beginning in 2009. While the LSI fleet regulation applies to forklifts, tow tractors, sweeper/scrubbers, and airport ground support equipment, it maintains a separate fleet average requirement specifically for forklifts. The LSI fleet regulation requires fleets with four or more LSI forklifts to meet fleet average emission standards.



Antelope Valley Air Quality Management District

Draft

Staff Report Proposed Adoption of AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)

For adoption on March 21, 2017

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List of Acronyms

AQMA	Air Quality Management Area
AVAQMD	Antelope Valley Air Quality Management District
BARCT	Best Available Retrofit Control Technology
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
FCAA	Federal Clean Air Act
H&S Code	California Health & Safety Code
MDAB	Mojave Desert Air Basin
MDAQMD	Mojave Desert Air Quality Management District
NAAQS	National Ambient Air Quality Standards
Ppb	parts per billion
SBCAPCD	San Bernardino Air Pollution Control District
SAAQS	State Ambient Air Quality Standards
SCAQMD	South Coast Air Quality Management District
SEDAB	Southeast Desert Air Basin
SIP	State Implementation Plan
SSAB	Salton Sea Air Basin
USEPA	United States Environmental Protection Agency
WMDONA	Western Mojave Desert Ozone Nonattainment Area

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STAFF REPORT AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)

I. PURPOSE OF STAFF REPORT

A staff report serves several discrete purposes. Its primary purpose is to provide a summary and background material to the members of the Governing Board. This allows the members of the Governing Board to be fully informed before making any required decision. It also provides the documentation necessary for the Governing Board to make any findings, which are required by law to be made prior to the approval or adoption of a document. In addition, a staff report ensures that the correct procedures and proper documentation for approval or adoption of a document have been performed. Finally, the staff report provides evidence for defense against legal challenges regarding the propriety of the approval or adoption of the document.

II. EXECUTIVE SUMMARY

The Antelope Valley Air Quality Management District (AVAQMD) was designated nonattainment and classified severe-17 for ozone under the then effective federal one-hour ozone standard (120 parts per billion (ppb) Primary and Secondary Ozone National Ambient Air Quality Standards (NAAQS), 44 FR 8202, February 8, 1979). The AVAQMD adopted both state and federal attainment plans for all standards within its jurisdiction.

On March 9, 2006, USEPA shifted the ozone standard from measurement on a one-hour basis to an eight hour basis (8-hour ozone standard, 80 ppb Primary and Secondary Ozone NAAQS, 62 FR 38856, July 18, 1997). The USEPA designated the Western Mojave Desert area as nonattainment for the 8-hour ozone NAAQS pursuant to the provisions of the Federal Clean Air Act (FCAA). The entire AVAQMD is included in the Western Mojave Desert nonattainment area. The AVAQMD adopted the 2008 AVAQMD Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-attainment Area) to satisfy the planning requirements under this standard.

On March 27, 2008, USEPA set the 8-hour primary and secondary ozone NAAQS to a level of 75 ppb). The USEPA then designated the Western Mojave Desert area as nonattainment for the 75 ppb 8-hour ozone NAAQS. The AVAQMD has prepared the *AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)* to satisfy the planning requirements under this newer standard. This plan, when adopted, will update all previously submitted federal ozone plans. However, portions of the previously adopted and approved plans will remain in effect until the region has been designated attainment for the relevant prior standard.

III. STAFF RECOMMENDATION

Staff recommends that the Governing Board of the Antelope Valley Air Quality Management District (AVAQMD or District) adopt the proposed *AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)* and approve the appropriate California Environmental Quality Act (CEQA) documentation. This action is necessary because the AVAQMD has been designated ozone nonattainment and classified moderate for the 75 ppb 8hour ozone standard, therefore the AVAQMD must submit the AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) to the USEPA pursuant to the FCAA.

IV. LEGAL REQUIREMENTS CHECKLIST

The findings and analysis as indicated below are required for the procedurally correct adoption of the AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area). Each item is discussed, if applicable, in Section V. Copies of related documents are included in the appropriate appendices.

FINDINGS REQUIRED FOR RULES & REGULATIONS:

- X Necessity
- X Authority
- <u>X</u> Clarity
- <u>X</u> Consistency
- X Nonduplication
- X Reference
- X Public Notice & Comment
- X Public Hearing

REQUIREMENTS FOR STATE IMPLEMENTATION PLAN SUBMISSION (SIP):

- X Public Notice & Comment
- X Availability of Document

X Notice to Specified Entities (State, Air Districts, USEPA, Other States)

X Public Hearing

 \underline{X} Legal Authority to adopt and implement the document.

 \underline{X} Applicable State laws and regulations were followed.

ELEMENTS OF A FEDERAL <u>SUBMISSION:</u>

 \underline{X} Elements as set forth in applicable Federal law or regulations.

CALIFORNIA ENVIRONMENTAL QUALITY <u>ACT REQUIREMENTS (CEQA):</u>

N/AMinisterial ActionXExemptionN/ANegative DeclarationN/AEnvironmental Impact ReportXAppropriate findings, if necessary.XPublic Notice & Comment

SUPPLEMENTAL ENVIRONMENTAL ANALYSIS (RULES & REGULATIONS ONLY):

- <u>X</u> Environmental impacts of compliance.
- <u>N/A</u> Mitigation of impacts.
- $\underline{N/A}$ Alternative methods of compliance.

OTHER:

 \underline{X} Written analysis of existing air pollution control requirements

<u>N/A</u> Economic Analysis

X Public Review

V. DISCUSSION OF LEGAL REQUIREMENTS

A. REQUIRED ELEMENTS/FINDINGS

This section discusses the State of California statutory requirements that apply to the proposed adoption of the *AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area).* These are actions that need to be performed and/or information that must be provided in order to amend the plan in a procedurally correct manner.

1. State Findings Required for Adoption of Rules & Regulations:

Before adopting, amending, or repealing a rule or regulation, the District Governing Board is required to make findings of necessity, authority, clarity, consistency, non-duplication, and reference based upon relevant information presented at the hearing. The information below is provided to assist the Board in making these findings.

a. Necessity:

The proposed adoption of the AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) is necessary to comply with the provisions of the FCAA and include the latest planning assumptions regarding population, vehicle activity and industrial activity. This document addresses all existing and forecast ozone precursor-producing activities within the jurisdiction of the AVAQMD through the year 2027. This document contains all necessary information to allow general and transportation conformity findings to be made within the jurisdiction of the AVAQMD.

b. Authority:

The District has the authority pursuant to California Health and Safety Code (H&S Code) §40702 to do such acts as may be necessary or proper to execute the powers and duties granted to, and imposed upon, the District by this division and other statutory provisions.

c. Clarity:

The proposed adoption of the AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) is clear in that it is written so that the persons subject to the plan can easily understand the meaning. d. Consistency:

The proposed adoption of the AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) is in harmony with, and not in conflict with or contradictory to any state law or regulation, federal law or regulation, or court decisions. The Western Mojave Desert nonattainment area (as defined in 40 CFR 81.305) was designated nonattainment for the NAAOS for ozone by USEPA effective on July 20, 2012. The Western Mojave Desert Ozone Nonattainment Area (WMDONA) includes the Antelope Valley portion of Los Angeles County, as well as the San Bernardino County portion of the MDAQMD. The AVAQMD has experienced ambient ozone concentrations in excess of the 8-hour ozone NAAQS. This document: (1) demonstrates that the AVAQMD will meet the primary required Federal ozone planning milestone, attainment of the 75 ppb 8-hour ozone NAAQS, by July 2026; (2) presents the progress the AVAQMD will make towards meeting all required ozone planning milestones; and (3) discusses the newest 70 parts per billion 8-hour ozone NAAQS, preparatory to an expected nonattainment designation for the new NAAOS. This document satisfies 42 U.S.C. §§7410, 7502, 7504 and 7511a (FCAA §§110, 172, 174, and 182) regarding implementation plans, nonattainment plan provisions, planning procedures, and ozone plan submissions and requirements for the 75 ppb 8-hour NAAQS.

e. Nonduplication:

The proposed adoption of the AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) does not impose the same requirements as an existing state or federal law or regulation. The USEPA designated the Western Mojave Desert Nonattainment Area as nonattainment for the March 2008 (75 ppb) 8-hour ozone NAAQS pursuant to the provisions of the FCAA. The entire AVAQMD is included in the Western Mojave Desert nonattainment area. This plan addresses all federal attainment planning requirements for the 75 ppb federal 8-hour ozone standard. As a result, this document updates the June 2008 AVAQMD Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-attainment Area).

f. Reference:

The District has the authority pursuant to H&S Code §40702 to do such acts as may be necessary or proper to execute the powers and duties granted to, and imposed upon, the District by this division and other statutory provisions. g. Public Notice & Comment, Public Hearing:

Notice for the public hearing for the proposed adoption of the *AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)* will be published February 17, 2017. See Appendix "B" for a copy of the public notice. See Appendix "C" for copies of comments, if any, and District responses.

2. Federal Elements (SIP Submittals, Other Federal Submittals).

Submittals to USEPA are required to include various elements depending upon the type of document submitted and the underlying federal law that requires the submittal. The information below indicates which elements are required for the proposed adoption of the AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) and how they were satisfied.

a. Satisfaction of Underlying Federal Requirements:

The adoption of the AVDAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) is subject to all the requirements for a SIP submittal because the AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) is to be included in the AVAQMD State Implementation Plan (SIP). The criteria for determining completeness of SIP submissions are set forth in 40 CFR Part 51, Appendix V, 2.0.

b. Public Notice and Comment:

Notice for the public hearing for the proposed adoption of the *AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)* will be published February 17, 2017. See Appendix "B" for a copy of the public notice. See Appendix "C" for copies of comments, if any, and District responses.

c. Availability of Document:

Copies of the proposed AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) and the accompanying draft staff report will be made available to the public on or before February 17, 2017.

d. Notice to Specified Entities:

Copies of the proposed AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) and the accompanying draft staff report will be sent to all affected agencies. The proposed amendments will be sent to the California Air Resources Board (CARB) and USEPA on or before February 17, 2017.

e. Public Hearing:

A public hearing to consider the proposed adoption of the *AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)* has been set for March 21, 2017.

f. Legal Authority to Adopt and Implement:

The District has the authority pursuant to H&S Code §40702 to adopt, amend, or repeal rules and regulations and to do such acts as may be necessary or proper to execute the duties imposed upon the District.

g. Applicable State Laws and Regulations Were Followed:

Public notice and hearing procedures pursuant to H&S Code \$\$40725-40728 have been followed. See Section (V)(A)(1) above for compliance with state findings required pursuant to H&S Code \$40727. See Section (V)(B) below for compliance with the required analysis of existing requirements pursuant to H&S Code \$40727.2. See Section (V)(C) for compliance with economic analysis requirements pursuant to H&S Code \$40920.6. See Section (V)(D) below for compliance with provisions of CEQA.

B. WRITTEN ANALYSIS OF EXISTING REQUIREMENTS

H&S Code §40727.2 requires air districts to prepare a written analysis of all existing federal air pollution control requirements that apply to the same equipment or source type as the rule proposed for modification by the district. The proposed *AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)* includes the latest planning assumptions regarding population, vehicle activity and industrial activity. This document addresses all existing and forecast ozone precursor-producing activities within the jurisdiction of the AVAQMD through the year 2027. This document includes all necessary information to allow general and transportation conformity findings to be made within the jurisdiction of the AVAQMD. Therefore the preparation of a written analysis of existing pollution control requirements that apply to the same equipment or source type is not required.

C. ECONOMIC ANALYSIS

1. General

Not applicable, as no local control measures are proposed as part of the proposed action.

2. Incremental Cost Effectiveness

Pursuant to H&S Code §40920.6, incremental cost effectiveness calculations are required for rules and regulations which are adopted or amended to meet the California Clean Air Act (CCAA) requirements for Best Available Retrofit Control Technology (BARCT) or "all feasible measures" to control volatile compounds (VOCs), oxides of nitrogen (NO_X) or oxides of sulfur (SO_X). The adoption of the proposed *AVAQMD Federal 75 ppb Ozone Attainment Plan* (*Western Mojave Desert Nonattainment Area*) is not subject to incremental cost effectiveness calculations because this plan does not impose BARCT or "all feasible measures".

D. ENVIRONMENTAL ANALYSIS (CEQA)

Through the process described below, it was determined that a Notice of Exemption would be the appropriate CEQA process for the proposed adoption of the *AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area).*

1. The proposed adoption of the AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) meets the CEQA definition of "project". They are not "ministerial" actions.

2. The proposed adoption of the AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) is exempt from CEQA review because there is not potential that the adoption might cause the release of additional air contaminants or create any adverse environmental impacts. The proposed plan is being promulgated in response to the new 75 ppb ozone standard. As a result, this document replaces the previous 2008 AVAQMD Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-Attainment Area). Copies of the documents relating to CEQA can be found in Appendix "D".

E. SUPPLEMENTAL ENVIRONMENTAL ANALYSIS

1. Potential Environmental Impacts

There are no potential negative environmental impacts of compliance with the proposed adoption of the AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) as no local control measures are proposed as part of the proposed action.

2. Mitigation of Impacts

N/A

3. Alternative Methods of Compliance

N/A

F. PUBLIC REVIEW

See Staff Report Section (V)(A)(1)(g) and (2)(b), as well as Appendix "B"

VI. TECHNICAL DISCUSSION

The Western Mojave Desert area (as defined in 40 CFR 81.305) was designated nonattainment for the NAAQS for ozone by USEPA on July 20, 2012. The Western Mojave Desert Ozone Nonattainment Area (WMDONA) includes the Antelope Valley portion of Los Angeles County, as well as the San Bernardino County portion of the MDAQMD. The AVAQMD has experienced ambient ozone concentrations in excess of the 8-hour ozone NAAQS. This document: (1) demonstrates that the AVAQMD will meet the primary required Federal ozone planning milestone, attainment of the 75 ppb 8hour ozone NAAQS, by July 2026; (2) presents the progress the AVAQMD will make towards meeting all required ozone planning milestones; and (3) discusses the newest 70 parts per billion 8-hour ozone NAAQS. This document satisfies 42 U.S.C. §§7410, 7502, 7504 and 7511a (FCAA §§110, 172, 174, and 182) regarding implementation plans, nonattainment plan provisions, planning procedures, and ozone plan submissions and requirements for the 75 ppb 8-hour NAAQS.

A. SIP HISTORY

1. SIP History.

The USEPA designated the desert part of Los Angeles County as non-attainment and classified it as Moderate for the 8-hour standard. This area was classified based on an ozone design value calculated from 2001 through 2003 concentrations in the region. The Moderate classification requires attainment of the 8-hour ozone NAAQS by June 2010, six years after the date of designation.

The desert portion of Los Angeles County was established as its own air district as of July 1, 1997, the Antelope Valley Air Pollution Control District (AVAPCD), pursuant to former H&SC §40106 (Statutes 1996 ch 542, Repealed Statutes 2001 ch. 163). This air district was replaced by the AVAQMD on January 1, 2002, pursuant to H&SC §41300 et seq (Statutes 2001 ch. 163). As a successor district to SCAQMD, the AVAQMD assumes the authorities and duties of the SCAQMD for the Antelope Valley (H&SC §41302). The SCAQMD addressed the desert portion of Los Angeles County in the 1991 AQMP, the 1994 AQMP, and the 1997 AQMP. The 1994 AQMP was approved by USEPA (62 FR 1150, January 8, 1997). However the initial adoption of the 1997 AQMP was not acted upon by USEPA and was only acted upon after revisions which were adopted by SCAQMD after the formation of the AVAPCD (65 FR 18903, April 10, 2000). Therefore, the 1997 AQMP as revised is not effective within the jurisdiction of the AVAQMD. Thereafter the AVAQMD adopted the AVAQMD 2004 Ozone Attainment Plan on April 20, 2004 and the AVAQMD Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-attainment Area) on May 20, 2008. The 2008 Ozone Plan is the most recent plan submitted to USEPA (SIP pending). This document will be submitted to USEPA to update previously submitted federal ozone plans. Portions of the previous Ozone Attainment Plans as approved will remain in effect until attainment of the relevant prior standard is reached.¹

Regional Ozone Planning Chronology

1989 - CARB designates SEDAB as non-attainment for ozone SAAOS 1990 - CARB classifies the SEDAB as moderate ozone non-attainment November 1990 - Adoption of Federal Clean Air Act Amendments December 9, 1994 - Adoption of 1994 AQMP by SCAQMD April 12, 1996 – Revision of 1994 AQMP by SCAQMD 1996 - SEDAB is subdivided into the Mojave Desert Air Basin (MDAB) and the Salton Sea Air Basin (SSAB) November 15, 1996 - Adoption of 1997 AQMP by SCAQMD July 1, 1997 - AVAPCD formed December 10, 1999 - Adoption of Revisions to 1997 AQMP by SCAQMD January 1, 2002 - AVAOMD replaces the AVAPCD April 20, 2004 - Adoption of AVAQMD 2004 Ozone Attainment Plan May 20, 2008 - Adoption of AVAQMD Federal 8-hour Ozone Attainment Plan (Severe-17) January 25, 2010 - Adoption of AVAQMD Federal 8-hour Ozone Attainment Plan (Severe-15) July 20, 2012 - USEPA designates 75 ppb 8-hour nonattainment areas 2. SIP Analysis.

The AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) will be submitted to the USEPA for inclusion into the SIP to update the 2008 AVAQMD Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-Attainment Area). However, portions of the previously adopted and approved plans will remain in effect until the region has been designated attainment for the relevant prior standard.

¹ Anti-backsliding requirements applicable to the AVAQMD will remain for the 1 hour standard (1994 AQMP). The portions in the 1997 AQMP applicable to AVAQMD as adopted November 15, 1996 do not remain because USEPA did not approve the plan prior to the creation of the AVAPCD and USEPA policy is that outstanding submittals are not considered applicable to the "new" district.

Appendix "A" AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)

The iterated version is provided so that the changes to an existing rule may be easily found. The manner of differentiating text is as follows:

1. <u>Underlined text</u> identifies new or revised language.

2. Lined out text identifies language which is being deleted.

3. Normal text identifies the current language of the rule which will remain unchanged by the adoption of the proposed amendments.

4. *[Bracketed italicized text]* is explanatory material that is not part of the proposed language. It is removed once the proposed amendments are adopted.

This section is not applicable/

The AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) is provided as an attachment to the Governing Board Resolution.

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Appendix "B" Public Notice Documents

1. Draft Proof of Publication – Antelope Valley Press
NOTICE OF HEARING

NOTICE IS HEREBY GIVEN that the Governing Board of the Antelope Valley Air Quality Management District (AVAQMD) will conduct a public hearing on March 21, 2017 at 10:00 A.M. to consider the adoption of the proposed AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area).

SAID HEARING will be conducted in the Governing Board Chambers located at the AVAQMD offices 43301 Division Street, Suite 206, Lancaster, CA 93535-4649 where all interested persons may be present and be heard. Copies of the proposed *AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)* and the Staff Report are on file and may be obtained from the Administrative Secretary at the AVAQMD Offices. Written comments may be submitted to Bret Banks, APCO at the above office address. Written comments should be received no later than March 20, 2017 to be considered. If you have any questions you may contact Alan De Salvio at (760) 245-1661 extension 6726 for further information. Traducción esta disponible por solicitud.

On March 27, 2008, the United States Environmental Protection Agency (USEPA) set the 8-hour primary and secondary ozone National Ambient Air Quality Standards (NAAQS) to a level of 0.075 parts per million (75 parts per billion (ppb)). The USEPA designated the Western Mojave Desert area as nonattainment for the 75 ppb 8-hour ozone NAAQS. The entire AVAQMD is included in the Western Mojave Desert nonattainment area. The AVAQMD is preparing the *AVAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)* to satisfy the planning requirements under this standard. This plan, when adopted, will and update all previously submitted federal ozone plans.

Pursuant to the California Environmental Quality Act (CEQA) the AVAQMD has determined that a Categorical Exemption (Class 8 - 14 Cal. Code Reg §15308) applies and has prepared a *Notice of Exemption* for this action.

Appendix "C" Public Comments and Responses

No comments received at this time.

Appendix "D" California Environmental Quality Act Documentation

1. Draft Notice of Exemption – Los Angeles County

NOTICE OF EXEMPTION

- TO: Los Angeles County Clerk 12400 E. Imperial Hwy, #1001 Norwalk, CA 90650
- FROM: Antelope Valley Air Quality Management District 43301 Division Street, Suite 206 Lancaster, CA 93535-4649

X AVAQMD Clerk of the Governing Board

PROJECT TITLE: Adoption of the *AVAQMD Federal 75 ppb Ozone Attainment Plan* (Western Mojave Desert Nonattainment Area).

PROJECT LOCATION – SPECIFIC: Los Angeles County portion of the Mojave Desert Air Basin.

PROJECT LOCATION – COUNTY: Los Angeles County

DESCRIPTION OF PROJECT: The Antelope Valley Air Quality Management District (AVAQMD) is proposing to adopt the *AVAQMD Federal 75 ppb Ozone Attainment Plan* (*Western Mojave Desert Nonattainment Area*)) to satisfy Federal Clean Air Act (FCAA) requirements that the AVAQMD develop a plan to attain the 75 parts per billion ozone National Ambient Air Quality Standard (NAAQS) on or before 2027. Once adopted, this plan will update the 2008 AVAQMD Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-Attainment Area).

NAME OF PUBLIC AGENCY APPROVING PROJECT: Antelope Valley AQMD

NAME OF PERSON OR AGENCY CARRYING OUT PROJECT: Antelope Valley AQMD

EXEMPT STATUS (CHECK ONE)

Ministerial (Pub. Res. Code §21080(b)(1); 14 Cal Code Reg. §15268) Emergency Project (Pub. Res. Code §21080(b)(4); 14 Cal Code Reg. §15269(b)) X Categorical Exemption – Class 8 (14 Cal Code Reg. §15308)

REASONS WHY PROJECT IS EXEMPT: The adoption of the proposed *AVAQMD Federal* 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area) is exempt from CEQA review because there is no potential that the adoption might cause the release of additional air contaminants or create any adverse environmental impacts. The proposed plan is being promulgated in response to the new federal 75 ppb ozone standard. As a result, this document updates the previous 2008 AVAQMD Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-Attainment Area). However, portions of the previously adopted and approved plans will remain in effect until the region has been designated attainment for the relevant prior standard.

LEAD AGENCY CONTACT PERSON	Bret Banks	PHONE:	(661) 723-8070
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SIGNATURE: _____ TITLE: <u>APCO</u> DATE: <u>March 21, 2017</u>

DATE RECEIVED FOR FILING:

Appendix "E" Bibliography

The following documents were consulted in the preparation of this staff report.

- 1. 2008 AVAQMD Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-Attainment Area)
- 2. Mojave Desert Modeling Analysis, prepared by SCAQMD staff.
- 3. Ozone RACM Assessment, prepared by CARB staff

AGENDA ITEM 9

DATE: March 21, 2017

RECOMMENDATION: 1) Approve \$80,000 in Carl Moyer Program and Mobile Source Emissions Reduction Program (AB 923) funds toward continued implementation of the District's Voluntary Accelerated Vehicle Retirement Program (VAVR); and 2) Authorize an extended contract with Environmental Engineering Studies Incorporated (EES); and 3) Authorize the Deputy Director and staff to negotiate target time frames and technical project details and execute an agreement, approved as to legal form by the Office of District Counsel.

SUMMARY: This item approved the continued implementation of the District's VAVR program pursuant to the requirements of the 2011 Carl Moyer Program Guidelines. This item also authorizes \$60,000 of AB 923 funds to be used toward eligible vehicle retirement projects, and \$20,000 of Carl Moyer Program administrative funding to be used toward VAVR program administration.

BACKGROUND: In 2004, the AVAQMD Governing Board approved funding towards the implementation of a vehicle retirement program. The program was implemented with AB 2766 funds. In 2008, CARB expanded the Carl Moyer Program to include light duty vehicle retirement programs. Pursuant to this expansion, the AVAQMD modified its existing vehicle retirement program utilizing Carl Moyer Program and AB 2766 fund. In September 2013 the Board approved the use of AB 923 funds to be used toward VAVR projects pursuant to the Carl Moyer guidelines.

REASON FOR RECOMMENDATION: Governing Board approval is needed to fund Carl Moyer eligible projects including any related funding that will be used to meet the match requirement. Additionally, Governing Board authorization is needed for the Executive Director/APCO to negotiate and execute an agreement with the grant recipient.

cc: Jean Bracy Laquita Cole Michelle Powell Julie McKeehan

AGENDA ITEM 9

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REVIEW BY OTHERS: This item was reviewed by Allison E. Burns, Special Counsel to the Governing Board, as to legal form and by Bret Banks, Executive Director/APCO - Antelope Valley Operations on or before March 6, 2017.

FINANCIAL DATA: Sufficient funding is available from the District's Mobile Source Emissions Reduction Program (AB 923) funds and Year 17 Carl Moyer funds allocated to administration.

PRESENTER: Julie McKeehan, Air Quality Specialist

AGENDA ITEM 10

DATE: March 21, 2017

RECOMMENDATION: 1) Allocate a maximum of \$10,000 from the District's general fund and a maximum of \$10,730 from Mobile Source Emissions Reduction Program AB 923 fund for the 2017 Lawn Mower Exchange Program; and 2) Authorize the Executive Director/ APCO and staff to negotiate target time frames and technical project details and execute an agreement, approved as to legal form by the Office of District Counsel.

SUMMARY: This item continues the implementation of the District's Lawn Mower Exchange Program and allocates a total of \$20,730 towards the 2017 Program.

BACKGROUND: The District's Lawn Mower Exchange Program was implemented in 2009 using the District's general funds and Air Quality Improvement Program (AQIP) funds. The initial Program offered local residents an opportunity to retire their gasolinepowered lawn mowers for a \$200 District incentive plus a generous vendor discount to off-set the purchase of a new zero emissions rechargeable electric lawn mower. Program years 2013, 2014 and 2015 saw a decline in participation which seemingly was a result of discontinued funding support from the AQIP funds causing the District to reduce the incentive to \$165 relying solely on the District's general funds. Additionally, the lawn mower exchange program was competing with water conversation incentives to replace lawns with drought resistant landscaping during the drought. In 2016, to revive participation, the District expanded the Program by including the trade of gasoline electric leaf blowers and string trimmers to rechargeable, electric replacements, as well as raising the incentive back to \$200. The 2016 event saw a revival in participation; however, the interest in the leaf blowers and string trimmers was insignificant. For the 2017 Lawn Mower Exchange Program, the District wishes to offer a new lawn mower with the latest in lithium ion technology for improved performance and endurance which is a more expensive unit that will require an increase in District incentive to \$280 to keep participant pricing in line with past events.

According to Senate Bill 513, authorized motor vehicle fees collected under Assembly Bill 923 can be used to fund any internal combustion engine, electric motor or off-road non-recreational equipment (i.e. lawn and garden equipment) and vehicles. In addition, the changes allow for leveraging eligible funding sources without penalty to the project grant amount.

cc: Jean Bracy Laquita Cole Michelle Powell Julie McKeehan

AGENDA ITEM 10

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REASON FOR RECOMMENDATION: Governing Board approval is needed to allocate District funds.

REVIEW BY OTHERS: This item was reviewed by Allison Burns, Special Counsel to the Governing Board as to legal form and by Bret Banks, Executive Director/APCO – Antelope Valley Operations on or before March 6, 2017.

FINANCIAL DATA: Sufficient funding is available from the District's general funds and AB 923.

PRESENTER: Julie McKeehan, Air Quality Specialist