

BOARD MEETING DATE: September 2, 2022

AGENDA NO. 26

REPORT: Technology Committee

SYNOPSIS: The Technology Committee held a meeting remotely on Friday, August 19, 2022. The following is a summary of the meeting.

RECOMMENDED ACTION:
Receive and file.

Rex Richardson, Chair
Technology Committee

AK:psc

Committee Members

Present: Board Member Gideon Kracov
Mayor Larry McCallon
Board Member Veronica Padilla-Campos
Vice Mayor Rex Richardson, Chair

Absent: Supervisor Andrew Do
Mayor Carlos Rodriguez

Call to Order

Chair Richardson called the meeting to order at 12:00 p.m.

For additional details of the Technology Committee Meeting, please refer to the [Webcast](#).

ACTION ITEMS:

1. Recognize Revenue, Transfer Funds and Execute Contract with San Bernardino County, Acting on Behalf of Arrowhead Regional Medical Center for Deployment of Zero Emission Mobile Clinics

Arrowhead Regional Medical Center (ARMC) operates two mobile pediatric asthma clinics referred to as Breathmobiles. In June 2022, U.S. EPA awarded \$500,000 to South Coast AQMD under the Clean Air Technology Initiative to help replace an existing older gasoline powered Breathmobile with a new zero emission platform.

San Bernardino County is supporting the development of a new third mobile clinic and has requested additional support in making this a zero emission clinical platform. These actions are to: 1) recognize revenue up to \$500,000 from U.S. EPA into the Advanced Technology, Outreach and Education Fund (17); 2) transfer \$500,000 from the Clean Fuels Program Fund (31) as cost-share into the Advanced Technology, Outreach, and Education Fund (17); and 3) execute a contract with San Bernardino County acting on behalf of ARMC for the purchase of two zero emission mobile clinics in an amount not to exceed \$1,000,000 from the Advanced Technology, Outreach, and Education Fund (17).

Board Member Veronica Padilla-Campos inquired about whether there are other zero emission “Breathmobiles” in Los Angeles County. Staff responded that the University of Southern California, in conjunction with Los Angeles County, operates a “Breathmobile” but it is not zero emission. For additional details, please refer to the Webcast beginning at 07:15.

Moved by McCallon; seconded by Kracov; unanimously approved.

Ayes: Kracov, McCallon, Padilla-Campos, Richardson
Noes: None
Abstain: None
Absent: Do, Rodriguez

2. Amend Contract for Joint Electric Truck Scaling Initiative Pilot Project

In June 2021, the Board approved the execution of several contracts to CARB and CEC for the Joint Electric Truck Scaling Initiative (JETSI) Pilot Project, including a contract with Gladstein, Neandross and Associates to develop the ZEV workplan. The JETSI Pilot Project will deploy 100 Daimler and Volvo Class 8 battery electric trucks, charging infrastructure, and distributed energy resource technologies at two fleets in disadvantaged communities. Due to the large number of project partners and strict reporting requirements to submit quarterly progress reports within 10 days of the end of each quarter, CARB has approved the reallocation of \$220,000 in South Coast AQMD administrative funds for project reporting. This action is to amend an existing contract with Gladstein, Neandross and Associates, adding \$220,000 in CARB grant funds from the GHG Reduction Projects Special Revenue Fund (67) for project reporting.

Mayor McCallon commented that he does not have a financial interest but is required to identify for the record that he is the Chair of the Mobile Source Air Pollution Reduction Review Committee, which is involved in this item.

Board Member Kracov commented that he does not have a financial interest but is required to identify for the record that he is a Board Member of CARB, which is involved in this item.

Chair Richardson commented that he does not have a financial interest but is required to identify for the record that he is the Vice Mayor for the City of Long Beach, which is involved in this item.

Board Member Kracov stated that JETSI project partners have put in a great deal of work to make it successful and supports this action. For additional details, please refer to the Webcast beginning at 11:38.

Moved by McCallon; seconded by Kracov; unanimously approved.

Ayes: Kracov, McCallon, Padilla-Campos, Richardson

Noes: None

Abstain: None

Absent: Do, Rodriguez

3. Adopt Resolution Recognizing Funds for FY 2021-22 Community Air Protection Incentives and Reimburse General Fund for Administrative Costs

In June 2022, South Coast AQMD executed a grant agreement with CARB to receive FY 2021-22 Community Air Protection Program (CAPP) incentive funds in the amount of \$98,799,787, of which 6.25 percent may be used to fund administrative costs. This action is to: 1) adopt a Resolution recognizing CAPP revenue up to \$98,799,787 from CARB into the Community Air Protection AB 134 Fund (77). Eligible projects include those submitted under the Carl Moyer Program and Proposition 1B–Goods Movement Program, projects consistent with the Community Air Protection Incentives Guidelines, and other projects included in approved AB 617 community emissions reduction programs; and 2) reimburse the General Fund for administrative costs incurred in implementing the CAPP grant.

Board Member Kracov commented that he does not have a financial interest but is required to identify for the record that he is a Board Member of CARB, which is involved in this item.

Board Member Padilla-Campos inquired about a comment letter submitted by Earthjustice and other stakeholders and if this letter is considered community input for the use of CAPP incentives. Staff confirmed that the letter will be considered. For additional details, please refer to the Webcast beginning at 14:45.

Mayor McCallon inquired if CAPP incentives will be allocated by AB 617 communities. Staff explained that AB 617 communities will have input on how the funds are spent, excluding technology feasibility and other limitations. For additional details, please refer to the Webcast beginning at 16:29.

Fernando Gaytan, Earthjustice, provided public comment on the advantages of CAPP incentives, emphasized the adoption of zero emission mobile source technologies and requested a breakdown of AB 617 funding for zero emission projects. For additional details, please refer to the Webcast beginning at 17:25.

Moved by McCallon; seconded by Richardson; unanimously approved.

Ayes: Kracov, McCallon, Padilla-Campos, Richardson

Noes: None

Abstain: None

Absent: Do, Rodriguez

INFORMATIONAL ITEM:

4. Measuring Emissions from Large Ocean-Going Vessels

The 2016 AQMP identified the need to achieve significant NO_x reductions to meet the federal 8-hour ozone standards. By 2023 ocean-going vessels (OGVs) are expected to be one of the largest sources of NO_x emissions. The University of California Riverside/College of Engineering-Center for Environmental Research & Technology (UCR/CE-CERT) has extensive experience and has tested over 20 OGVs since 2005. Dr. Kent Johnson, Principal Investigator at the Emissions and Fuels Research Group at UCR/CE-CERT shared findings of emissions measurements from OGVs. Dr. Johnson also shared their future outlook on conducting OGV emissions research using new methods to improve emissions inventories from OGVs and the growing importance of off-cycle emissions from newer OGVs that meet the most stringent International Maritime Organization (IMO) Tier III emissions standards.

Board Member Kracov asked if other off-road engines would also have higher in-use emissions than the certification cycle. Dr. Johnson explained that the higher in-use emissions for marine engines are expected below 25 percent load which the certification cycle does not cover. Board Member Kracov asked which organization regulates and certifies the marine engines. Dr. Johnson responded that the OEM does self-certification, and the International Maritime Organization (IMO) regulates the marine engines. Board Member Kracov asked if the same issues occur with other off-road engines and also asked who regulates these engines. Dr. Johnson responded that off-road machines like backhoes, skid-loaders, scrapers, wheel-loaders have similar issues and are regulated by U.S. EPA and CARB. Board Member Kracov asked what IMO, U.S. EPA and CARB are doing to regulate these. Dr. Johnson responded that there will be a new low-load cycle and lower emission standard coming from U.S. EPA and CARB as a result of studies done on on-road trucks with SCR over the years showing poor in-use NO_x performance under low-load conditions in urban areas like Los Angeles. He also explained that South Coast AQMD funded many of these projects. Dr. Johnson also suggested that IMO is a separate entity and discussions

are in progress. Dr. Johnson shared how drone measurements could streamline the process for taking measurements. For additional details, please refer to the Webcast beginning at 32:47.

Wayne Nastri commented that issues with scrubbers are more related to sulfur content in the fuel inside the emissions control area (ECA). For purposes of enforcement, U.S. EPA notifies the U.S. Coast Guard and the Coast Guard will board and take samples to determine if there is higher sulfur fuel (e.g. Bunker fuels) being used within the ECA. Dr. Johnson agreed. Wayne Nastri clarified that bunker fuel should not be used within the ECA. Dr. Johnson suggested the Coast Guard can use drones as screening/flagging tools to tell the Coast Guard which ships to board. For additional details, please refer to the Webcast beginning at 37:51.

Board Member Padilla-Campos asked if drones are commercially available. Dr. Johnson confirmed that the drone measurements are already widely in use in Europe. South Coast AQMD is already closely monitoring this work to determine if these results can be applied locally. Board Member Padilla-Campos asked if South Coast AQMD could help to streamline the process. Dr. Johnson responded that it will be helpful to relax drone restrictions locally. For additional details, please refer to the Webcast beginning at 40:22.

OTHER MATTERS:

5. Other Business

Board Member Padilla-Campos requested status updates of incentive funds. Staff commented that South Coast AQMD submits a series of reports to the legislature which includes a breakdown of incentive fund spending. Staff will provide a status update on programs for which data is available at the October Technology Committee meeting. For additional details, please refer to the Webcast beginning at 44:56.

6. Public Comment Period

There was no public comment to report.

7. Next Meeting Date

The next regular Technology Committee meeting is scheduled for Friday, September 16, 2022, at noon.

Adjournment

The meeting adjourned at 12:50 p.m.

Attachment

Attendance Record

ATTACHMENT

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT TECHNOLOGY COMMITTEE MEETING

Attendance Record – August 19, 2022

Board Member Gideon Kracov	South Coast AQMD Board Member
Mayor Larry McCallon.....	South Coast AQMD Board Member
Board Member Veronica Padilla-Campos.....	South Coast AQMD Board Member
Vice Mayor Rex Richardson.....	South Coast AQMD Board Member
Mark Taylor	Board Consultant (Rutherford)
Chris Wangsaporn	Board Consultant (Do)
Amy Wong.....	Board Consultant (Padilla-Campos)
Mark Abramowitz	Public Member
Nick Dwyer	Public Member
Scott Gallegos	Public Member
Fernando Gayton	EarthJustice
Kent Johnson.....	University of California, Riverside
Lizzy Melgoza.....	CARB
Fred Minassian	Public Member
Scott Skinner	Public Member
Nick Storelli	CARB
David Chen	South Coast AQMD Staff
Marjorie Eaton	South Coast AQMD Staff
Bayron Gilchrist	South Coast AQMD Staff
Darren Ha.....	South Coast AQMD Staff
Sheri Hanizavareh	South Coast AQMD Staff
Anissa Heard-Johnson	South Coast AQMD Staff
Mark Henninger	South Coast AQMD Staff
Kathryn Higgins	South Coast AQMD Staff
Justin Joe.....	South Coast AQMD Staff
Aaron Katzenstein	South Coast AQMD Staff
Christina Kusnandar	South Coast AQMD Staff
Patricia Kwon.....	South Coast AQMD Staff
Tom Lee	South Coast AQMD Staff
Wayne Nastri.....	South Coast AQMD Staff
Penny Shaw Cedillo	South Coast AQMD Staff
Walter Shen.....	South Coast AQMD Staff
Lisa Tanaka	South Coast AQMD Staff
Alejandra Vega.....	South Coast AQMD Staff
Mei Wang.....	South Coast AQMD Staff
Michelle White.....	South Coast AQMD Staff
Paul Wright	South Coast AQMD Staff
Alyssa Yan	South Coast AQMD Staff