BOARD MEETING DATE: December 5, 2025 AGENDA NO. 23

REPORT: Technology Committee

SYNOPSIS: The Technology Committee held a hybrid meeting on Friday, November 21, 2025. The following is a summary of the meeting.

RECOMMENDED ACTION:
Receive and file.

Carlos Rodriguez, Chair
Technology Committee

AK:psc

Call to Order
Committee Chair Carlos Rodriguez called the meeting to order at 12:00 p.m.

Roll Call

Committee Members

Present: Supervisor Curt Hagman
Mayor Patricia Lock Dawson
Mayor Pro Tem Larry McCallon
Mayor Pro Tem Carlos Rodriguez, Committee Chair

Absent: Supervisor Janet Nguyen
Board Member Veronica Padilla-Campos

For additional details of the Technology Committee Meeting, please refer to the Webcast.

ACTION ITEMS:

1. **Recognize Revenue, Amend Contracts for AB 617 Residential Air Filtration Program and Reimburse General Fund**
   Kelly Trainor Gamino, Program Supervisor, Technology Advancement Office, presented on the $100,000 grant under Clean Air Act Section 105 for an air filtration project. This grant will supplement the AB 617 Residential Air Filtration Program

approved by the Board in November 2022. These actions are to: 1) recognize up to $100,000 from a U.S. EPA grant into the Advanced Technology, Outreach and Education Fund (17) to supplement the AB 617 Residential Air Filtration Program; 2) authorize the Executive Officer to amend existing contracts with vendors selected under RFP #P2023-04 to add an amount not to exceed $90,000 from the Advanced Technology, Outreach and Education Fund (17); and 3) reimburse General Fund from the Advanced Technology, Outreach and Education Fund (17) for administrative costs up to $10,000 from the U.S. EPA grant. No comments by the Committee. For additional details, please refer to the Webcast beginning at 3:42.

Moved by McCallon; seconded by Hagman; unanimously approved.

Ayes: Hagman, Lock Dawson, McCallon, Rodriguez
Noes: None
Abstain: None
Absent: Nguyen, Padilla-Campos

2. Execute Contract to Assess Emissions of a Linear Generator

Sam Cao, Program Supervisor, Technology Advancement Office, presented on this item which will utilize a Hyliion KARNO linear generator to assess the emission aspects of this technology using different fuel sources. This action is to execute a contract with the University of California, Riverside College of Engineering – Center for Environmental Research and Technology in an amount not to exceed $423,723 from the Clean Fuels Program Fund (31) to conduct the studies on a Hyliion KARNO linear generator. For additional details, please refer to the Webcast beginning at 6:13.

Mayor Pro Tem McCallon asked whether the same emissions study has been done on the linear generator from the other manufacturer. Aaron Katzenstein, Deputy Executive Officer, Technology Advancement Officer replied that there is a project with Mainspring to deploy their linear generator at Cal State Long Beach for testing on multiple fuels, emissions, and long-term durability. For additional details, please refer to the Webcast beginning at 9:05.

Supervisor Hagman asked about the duration of the proposed study being two years and whether results can be provided sooner. Dr. Katzenstein explained that the two-year period is needed for long-term durability and performance testing, but initial fuel and emissions testing will occur sooner. Supervisor Hagman suggested broader public communication and awareness about emerging technologies, possibly through the website or a larger technology showcase like the Technology Showcase South Coast AQMD organized and hosted earlier this year. For additional details, please refer to the Webcast beginning at 9:33.

Chair Rodriguez asked whether additional fuel types will be tested beyond those two mentioned. Dr. Katzenstein stated that natural gas, renewable natural gas, hydrogen, and LPG will be studied, with a possibility of adding ethanol or other fuels. Chair Rodriguez asked which fuel is expected to be most efficient or cleanest. Dr. Katzenstein explained that the market will influence which fuel is used (cost, availability, incentives), and the study aims to determine emissions profiles rather than rank fuels in advance.

Chair Rodriguez asked about the usefulness of the study results. Executive Officer Nastri indicated when South Coast AQMD performs this type of study, it generally will carry significant credibility and influence and will lead to adoption by other air districts if results are positive. For additional details, please refer to the Webcast beginning at 12:25.

Moved by McCallon; seconded by Hagman; unanimously approved.

Ayes: Hagman, Lock Dawson, McCallon, Rodriguez
Noes: None
Abstain: None
Absent: Nguyen, Padilla-Campos

3. **Recognize Revenue, Execute Contracts and Reimburse General Fund to Deploy Marine Shore-Side Charging Infrastructure**
Sam Cao, Program Supervisor, Technology Advancement Office, presented on the Department of Energy (DOE) FY 24 Congressional Direct Spending Request to deploy a high-power shore-side charging infrastructure for plug-in hybrid passenger tour boats. These actions are to: 1) recognize, upon receipt, revenue up to $500,000 from DOE into the Clean Shipping Technology Demonstration Special Revenue Fund (83); 2) execute a contract with Harbor Breeze Cruises for up to $481,282 from Fund (83); and 3) reimburse the general fund of up to $18,718 from Fund 83 for administrative costs necessary to implement the project. No comments by the Committee. For additional details, please refer to the Webcast beginning at 17:18.

Moved by Hagman; seconded by McCallon; unanimously approved.

Ayes: Hagman, Lock Dawson, McCallon, Rodriguez
Noes: None
Abstain: None
Absent: Nguyen, Padilla-Campos

4. **Recognize Revenue and Execute Contracts to Deploy Zero-Emission Commercial Workboats**
   Sam Cao, Program Supervisor, Technology Advancement Office, presented on the U.S. EPA award of $150,000 to South Coast AQMD under the Clean Air Technology Initiative to deploy up to two zero-emission battery-electric commercial workboats. In addition, zero-emission commercial workboat applications were also received under the Year 26 Carl Moyer Program SB 1107 Announcement released in March 2025. Three marine projects were deemed eligible for funding. These actions are to: 1) recognize revenue upon receipt up to $150,000 from U.S. EPA into the Clean Shipping Technology Demonstration Special Revenue Fund (83); and 2) execute contracts with Pacific Towing LLC and City of Los Angeles, Department of Recreation and Parks to deploy up to three zero-emissions commercial workboats for a total of $769,624, which consists of $150,000 from Clean Shipping Technology Demonstration Special Revenue Fund (83) and $619,624 from the Carl Moyer Program SB 1107 Fund (32). For additional details, please refer to the Webcast beginning at 20:26.

   Mayor Lock Dawson commented that she does not have a financial interest but is required to identify for the record that she is a Board Member for the California Air Resources Board, which is involved in this item.

   Moved by Hagman; seconded by McCallon; unanimously approved.

   Ayes: Hagman, Lock Dawson, McCallon, Rodriguez
   Noes: None
   Abstain: None
   Absent: Nguyen, Padilla-Campos

5. **Issue RFP for Technical Assistance to Support South Coast AQMD's Technology Advancement Office Activities and Programs Implementation Efforts**
   Tom Lee, Planning & Rules Manager, Technology Advancement Office, presented on how contract assistance is needed for grant proposals, reviewing grant applications, emissions calculations, and other support activities related to technology incentive and demonstration projects. These actions are to: 1) issue an RFP to solicit proposals from qualified consultants and consulting firms with relevant technical expertise and experience to assist with the implementation of incentive programs and development of technology demonstration project proposals; and 2) authorize the Executive Officer to execute or amend contract(s) with the selected consultant(s) or firm(s) in an amount not to exceed $800,000 using up to $500,000 in administrative funds from the Carl Moyer Program Fund (32) and Community Air Protection Program Fund (77), and up to $300,000 from the Clean

Fuels Program Fund (31). Multiple awards may be issued from this solicitation. For additional details, please refer to the Webcast beginning at 24:28.

Mayor Pro Tem McCallon asked if there are any contractors supporting the programs now. Dr. Katzenstein replied there is contractor support now as there was an RFP issued two years ago. One of the selected contractors is now assisting with audit preparation, and another assisted with the preparation of the winning proposal for CPRG grant INVEST CLEAN. Mayor Pro Tem McCallon asked how many contractors are currently available to assist. Mr. Lee responded that there are currently two firms with active contracts for incentive program support, and five to six with active contracts supporting the Technology Advancement Office's Technology Demonstration group. For additional details, please refer to the Webcast beginning at 28:20.

Supervisor Hagman requested clarification if the contractors selected in the RFP will be for short- or long-term support. Dr. Katzenstein responded that it's intended to assist with the short-term surge due to the number of incentive grants received recently, along with an increasing number of technology demonstration projects that have requested funding. For additional details, please refer to the Webcast beginning at 29:16.

Moved by Hagman; seconded by McCallon; unanimously approved.

Ayes: Hagman, Lock Dawson, McCallon, Rodriguez
Noes: None
Abstain: None
Absent: Nguyen, Padilla-Campos

6. **Recognize Revenue and Authorize EV Charging Fees to Implement New EV Charger Network at South Coast AQMD Headquarters**
Nicole Silva, Program Supervisor, Technology Advancement Office, presented on the execution of a contract to install and maintain a new EV charger network at South Coast AQMD headquarters. The installation and commissioning of this network are expected to be completed by the end of 2025. These actions are to: 1) set fee rates and recognize revenue from EV charging fees; and 2) authorize the Executive Officer to adjust EV charging fees to recover costs. For additional details, please refer to the Webcast beginning at 31:14.

Supervisor Hagman supported providing authority for the Executive Officer to set the rates. Supervisor Hagman also commented that a linear generator may be useful at South Coast AQMD. For additional details, please refer to the Webcast beginning at 33:20.

Mayor Pro Tem McCallon commented that the proposed rates are competitive to what is currently being charged in his city. For additional details, please refer to the Webcast beginning at 33:43.

Chair Rodriguez inquired as to what the estimated annual cost will be offset by these fees. Ms. Silva stated that it is estimated $150,000 would be collected in revenue per year. Committee Chair Rodriguez also asked if that was in the historical usage rates and Ms. Silva confirmed that is correct. For additional details, please refer to the Webcast beginning at 34:05.

Moved by Hagman; seconded by McCallon; unanimously approved.

Ayes: Hagman, Lock Dawson, McCallon, Rodriguez
Noes: None
Abstain: None
Absent: Nguyen, Padilla-Campos

ADMINISTRATIVE ACTION ITEMS:

7. Approve Payments for Contracts

Authorize the Executive Officer to: 1) authorize payment for previously approved project with West Virginia University in the amount of $286,952.82 for the testing work completed under the in-use emissions study from the Clean Fuels Program Fund (31); and 2) issue refund to Southern California Gas Company in the amount of $150,000 for the unused project funds to conduct heavy-duty vehicle maintenance study from the Clean Fuels Program Fund (31). For additional details, please refer to the Webcast beginning at 35:15.

Moved by Hagman; seconded by McCallon; unanimously approved.

Ayes: Hagman, Lock Dawson, McCallon, Rodriguez
Noes: None
Abstain: None
Absent: Nguyen, Padilla-Campos

OTHER MATTERS:

8. Other Business

There was no other business to report.

9. Public Comment Period

No public comment.

10. Next Meeting Date

The next regular Technology Committee meeting is scheduled for Friday, January 23, 2026 at noon.

Adjournment

The meeting adjourned at 12:35 p.m.

Attachment

Attendance Record

ATTACHMENT

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
TECHNOLOGY COMMITTEE MEETING
Attendance Record – November 21, 2025

Mayor Pro Tem Carlos Rodriguez .....South Coast AQMD Board Member
Supervisor Curt Hagman .....South Coast AQMD Board Member
Mayor Patricia Lock Dawson .....South Coast AQMD Board Member
Mayor Pro Tem Larry McCallon ..... South Coast AQMD Board Member

Kiera Dixon .....Public Member
Liam Hurley .....Public Member
Rtuik Kanuparti .....Public Member
Sophia Koelsch ..... Public Member
Oscar Ortiz .....Public Member

Debra Ashby ..... South Coast AQMD Staff
Cindy Bustillos ..... South Coast AQMD Staff
Sam Cao .....South Coast AQMD Staff
Penny Shaw Cedillo .....South Coast AQMD Staff
Philip Crabbe III ..... South Coast AQMD Staff
Berg Der Boghossian .....South Coast AQMD Staff
Scott Gallegos .....South Coast AQMD Staff
Dan Garcia ..... South Coast AQMD Staff
Carlos Gonzalez .....South Coast AQMD Staff
Dé Groeneveld ..... South Coast AQMD Staff
Alex Han .....South Coast AQMD Staff
Maryam Hajbababei .....South Coast AQMD Staff
Sheri Hanizavareh .....South Coast AQMD Staff
Justin Joe .....South Coast AQMD Staff
Aaron Katzenstein .....South Coast AQMD Staff
Angela Kim .....South Coast AQMD Staff
Howard Lee .....South Coast AQMD Staff
Tom Lee .....South Coast AQMD Staff
Hay Lo ..... South Coast AQMD Staff
Ron Moskowitz .....South Coast AQMD Staff
Ghislain Muberwa .....South Coast AQMD Staff
Susan Nakamura ..... South Coast AQMD Staff
Wayne Nastri ..... South Coast AQMD Staff
Lisa Tanka O'Mailey .....South Coast AQMD Staff
Vasileios Papapostolou .....South Coast AQMD Staff
Robert Paud .....South Coast AQMD Staff
Cynthia Ravenstein .....South Coast AQMD Staff
Kristin Remy .....South Coast AQMD Staff
Nicole Silva .....South Coast AQMD Staff

Kelly Gamino Trainor .....South Coast AQMD Staff
Kristina Voorhees ..... South Coast AQMD Staff
Mei Wang .....South Coast AQMD Staff