

BOARD MEETING DATE: December 6, 2019

AGENDA NO. 24

REPORT: Technology Committee

SYNOPSIS: The Technology Committee held a meeting on Friday, November 15, 2019. The following is a summary of the meeting.

RECOMMENDED ACTION:  
Receive and file.

Joe Buscaino, Chair  
Technology Committee

MMM:JCL:av

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### **Committee Members**

Present: Council Member Joe Buscaino/Chair (videoconference)  
Mayor Judith Mitchell  
Council Member Dwight Robinson

Absent: Supervisor Lisa Bartlett  
Supervisor Janice Hahn

### **Call to Order**

Chair Buscaino called the meeting to order at 12:02 p.m.

### **ACTION ITEMS:**

Council Member Buscaino asked the Committee to take Item #2 on consent. For item #2, Mayor Mitchell commented that she does not have a financial interest or conflict of interest, but is required to identify for the record that she is a Board Member of CARB which is involved in this item.

*(Items were taken out of order)*

## **2. Recognize and Transfer Funds, Execute and Amend Agreements for Installation and Maintenance of Air Filtration Systems, and Reimburse General Fund for Administrative Costs**

The U.S. EPA and CARB are executing four Supplemental Environmental Projects (SEPs) and have asked South Coast AQMD to act as the SEP administrator to install

and maintain air filtration systems at schools in environmental justice communities. South Coast AQMD will also be carrying out its own SEP. These actions are to recognize up to \$316,000 for SEPs from U.S. EPA and CARB and transfer up to \$45,000 from the General Fund for the South Coast AQMD SEP into the Air Filtration Fund (75). These actions are to also execute agreements to install and maintain air filtration systems in an amount not to exceed \$345,200, execute or amend access agreements with local school districts, amend contracts to purchase additional filters using unspent administrative funds, and reimburse the General Fund for administrative costs up to \$15,800 for SEP administration.

Moved by Robinson; seconded by Mitchell; unanimously approved.

Ayes: Buscaino, Mitchell, Robinson

Noes: None

Absent: Bartlett, Hahn

**1. Amend Contracts to Develop and Demonstrate Zero Emissions Drayage Trucks and Provide Project Implementation Assistance for Clean Fuels Projects and Execute Easement for Fleet Chargers**

In March 2016, the Board recognized revenue from CARB and other funding partners and awarded multiple contracts for a Zero Emissions Drayage Truck (ZEDT) Project. In October 2018, the Board amended those contracts to reallocate funds among the project partners; however, an additional reallocation of funds is needed at this time. This action is to authorize the Executive Officer to amend the four project partner contracts and a project implementation assistance contract, as needed, for the ZEDT Project and to redistribute funds among these five contracts as needed to ensure project completion. This action is to also amend a contract for project implementation support of Clean Fuels related projects adding up to \$50,000 from the Clean Fuels Program Fund (31). In addition, in August 2018, staff applied for 30 fleet chargers through Southern California Edison's Charge Ready Program, which requires the host to execute an easement. This action is to authorize the execution of the easement.

Council Member Buscaino asked the Committee to waive the presentation for this item.

Mayor Mitchell commented that she does not have a financial interest or conflict of interest, but is required to identify for the record that she is a Board Member of CARB which is involved in this item.

Council Member Robinson inquired about issues in deploying trucks in revenue service, especially in terms of timely permitting and installation of infrastructure and urged staff to work with local permitting authorities to become stakeholders to create a streamlined permitting process.

Moved by Robinson; seconded by Mitchell; unanimously approved.

Ayes: Buscaino, Mitchell, Robinson

Noes: None

Absent: Bartlett, Hahn

**3. Issue Program Announcement for Combustion Freight and Marine Projects Eligible Under Volkswagen Environmental Mitigation Program**

In November 2018, the Board recognized revenue up to \$150 million to administer and implement two of the five project funding categories for the Volkswagen (VW) Environmental Mitigation Program. This action is to issue the statewide Program Announcement for the first installment of program funds totaling \$30 million for the Combustion Freight and Marine Projects category. A solicitation for the Zero Emission Class 8 Freight and Port Drayage Trucks is planned for spring/summer 2020.

Staff announced that there are on-going discussions with CARB on the draft Program Announcement, especially for newspaper noticing throughout the state. Mayor Mitchell agreed that any administrative issues such as notification issues do not necessitate coming back to the Committee. Mayor Mitchell inquired about outreach support from San Joaquin Valley APCD and Bay Area AQMD. Staff replied that they will partner with the other air districts on outreach, and the Program Announcement will be posted on the websites of CARB, CAPCOA and the three air districts.

Council Member Robinson asked if there will be any minimum mileage requirements for the Volkswagen Program. Staff stated that the projects will be ranked based on cost-effectiveness and mileage is a part of this calculation. Council Member Robinson asked staff to consider that drayage trucks have lower mileage but result in high impacts to AB 617 communities.

Moved by Mitchell; seconded by Robinson; unanimously approved.

Ayes: Buscaino, Mitchell, Robinson

Noes: None

Absent: Bartlett, Hahn

**4. Adopt Resolution, Execute Contracts, Amend Awards, Transfer Funds and Reimburse Administrative Costs for Carl Moyer and Other Programs**

In June 2019, the Program Announcement for the Year 21 Carl Moyer Program closed. This year, in addition to the traditional sources of Carl Moyer SB 1107 and AB 923 funds, funding from the Community Air Protection Program, State Reserve

and FARMER will also be available to fund Carl Moyer projects. In addition, updates to improve the Carl Moyer online application system are necessary. These actions are to: 1) adopt a Resolution recognizing up to \$86 million in Community Air Protection Program funds; 2) execute contracts for Year 21 Carl Moyer Program, SOON Provision, State Reserve, FARMER and Community Air Protection Programs; 3) amend a “Year 20” SOON Provision contract award; 4) authorize the Executive Officer to redistribute the source of funds for these contracts to ensure program liquidation targets are met; 5) amend a contract for the Carl Moyer online application system; 6) transfer \$3 million from the Carl Moyer Program AB 923 Fund (80) to the Voucher Incentive Program Fund (59) for truck replacements; and 7) reimburse administrative costs related to implementing these incentive funds.

Mayor Mitchell commented that she does not have a financial interest or conflict of interest, but is required to identify for the record that she is a Board Member of CARB and a Board Member of the Los Angeles County Sanitation Districts. County which are involved in this item.

Council Member Buscaino commented that he does not have a financial interest or conflict of interest, but is required to identify for the record that he is a Board Member of the L.A. County Sanitation Districts which is involved in this item.

Andrew Delaney, Associates Environmental, commented that the language in the Program Announcement should specify that if the program is oversubscribed, then only projects in Disadvantaged Communities will be considered. He recommended the Committee re-evaluate the language in the Program Announcement to either provide a statement addressing this or issue separate program announcements for each program based on the funding source.

Moved by Mitchell; seconded by Robinson; unanimously approved.

Ayes: Buscaino, Mitchell, Robinson

Noes: None

Absent: Bartlett, Hahn

**5. Execute Contract to Demonstrate Fuel Cell Range-Extended Drayage Trucks**

In April 2017, the Board approved several projects for port handling equipment, including one with Vehicle Velocity Group (VVG), partnering with Efficient Drivetrains, Inc. (EDI), to develop and demonstrate one battery electric and three plug-in hybrid electric drayage trucks. Cummins Inc., which recently acquired EDI, proposes instead to develop and demonstrate four fuel cell range-extended drayage trucks. This action is to execute a contract with Cummins Inc. to develop and demonstrate four fuel cell range-extended drayage trucks in the amount of \$3,568,300 from the Clean Fuels Fund (31), comprised of \$2,985,995 in CEC pass-through revenue and \$582,305 for South Coast AQMD’s cost-share. Cummins Inc.

will provide the additional funds to make up the increased costs of the revised project.

Ranji George, a member of the public, supported the proposal to deploy hydrogen and fuel cell technology for heavy-duty vehicle application and emphasized the need to dedicate more funding to hydrogen technology instead of battery powered vehicles and support the need for battery recycling funding.

Moved by Robinson; seconded by Mitchell; unanimously approved.

Ayes: Buscaino, Mitchell, Robinson

Noes: None

Absent: Bartlett, Hahn

### **DISCUSSION ITEM:**

#### **6. Renewable Transportation Fuel From Pyrolysis**

Staff presented a status report on the Kore Infrastructure project that is intended to demonstrate a commercial scale pyrolysis system that converts various waste biomass feedstock into renewable natural gas and renewable hydrogen.

Mayor Mitchell inquired about the amount of funding South Coast AQMD has given to this project. Staff responded that South Coast AQMD has funded both the commercial and optimization process with a total funding level of \$3.5 million and has paid approximately \$2.5 million to date. Staff added that the scope of the Kore projects has also been revised, with current focus on hydrogen. Mayor Mitchell also asked if pyrolysis produces hydrogen. Staff explained that the pyrolysis technology can produce a gas that can be used to produce hydrogen or convert to other renewable fuels, as the byproduct is biochar, which can be used as a fertilizer supplement.

Council Member Robinson asked what would happen if deadlines are not met. Staff responded that the Board would be apprised of the schedule. Council Member Robinson commented that it appears that Kore has missed other deadlines and hopes that they meet upcoming ones. Staff indicated that this is a demonstration project by a start-up company and that funding is a limiting factor in Kore's ability to perform at a faster pace. Staff plans to continue monitoring progress on a regular basis.

Mayor Mitchell asked about outside funding for this project. Staff responded that Kore has secured SoCalGas and other private funding, and that South Coast AQMD's portion is relatively small compared to the overall project cost. Mayor Mitchell also inquired about potential air quality benefits of this project. Staff explained that production of renewable fuels is vital for light- and heavy-duty

vehicles, especially hydrogen which has a limited supply chain and is currently primarily produced using steam methane reformation.

**OTHER MATTERS:**

**7. Other Business**

Council Member Robinson announced he will no longer be a Board Member and this will be his last meeting with the Technology Committee. He commended staff for the exceptional work.

**8. Public Comment Period**

There were no public comments.

**9. Next Meeting Date**

The next regular Technology Committee meeting is scheduled for Friday, January 24, 2020 at noon.

**Adjournment**

The meeting adjourned at 12:55 p.m.

**Attachment**

Attendance Record

## **ATTACHMENT**

### **SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT TECHNOLOGY COMMITTEE MEETING Attendance Record – November 15, 2019**

Council Member Joe Buscaino (videoconference) .....	SCAQMD Board Member
Mayor Judith Mitchell .....	SCAQMD Board Member
Council Member Dwight Robinson .....	SCAQMD Board Member
Andy Silva .....	Board Consultant (Rutherford)
Marisa Perez .....	Board Consultant (Mitchell)
Andrew Delaney .....	Associates Environmental
Ranji George .....	Public Member
John McNamara .....	CR&R Environmental Services
Fred Minassian .....	Public Member
Phil Barroca .....	SCAQMD Staff
Naveen Berry .....	SCAQMD Staff
Dana Foist .....	SCAQMD Staff
Ping Gui .....	SCAQMD Staff
Seungbum Ha .....	SCAQMD Staff
Drue Hargis .....	SCAQMD Staff
Lauren Henninger .....	SCAQMD Staff
Joseph Impullitti .....	SCAQMD Staff
Patricia Kwon .....	SCAQMD Staff
Tom Lee .....	SCAQMD Staff
Jason Low .....	SCAQMD Staff
Megan Lorenz .....	SCAQMD Staff
Lisa Mirisola .....	SCAQMD Staff
Wayne Nastri .....	SCAQMD Staff
Walter Shen .....	SCAQMD Staff
Dominic Tung .....	SCAQMD Staff
Alejandra Vega .....	SCAQMD Staff
Donna Vernon .....	SCAQMD Staff
Mei Wang .....	SCAQMD Staff
Vicki White .....	SCAQMD Staff
Fan Xu .....	SCAQMD Staff
Alyssa Yan .....	SCAQMD Staff