## BOARD MEETING DATE: March 4, 2016

AGENDA NO. 34

REPORT: Technology Committee

SYNOPSIS: The Technology Committee met on February 19, 2016. Major topics included Technology Advancement items reflected in the regular Board Agenda for the March Board meeting. A summary of these topics with the Committee's comments is provided. The next Technology Committee meeting will be held on March 18, 2016.

RECOMMENDED ACTION: Receive and file.

John J. Benoit Technology Committee Chair

MMM:pmk

**Attendance:** Supervisor John J. Benoit, Councilmember Joe Buscaino and Councilmember Judith Mitchell participated by videoconference. Mayor Larry McCallon and Councilmember Dwight Robinson were in attendance at SCAQMD headquarters. Supervisor Janice Rutherford was absent due to a conflict with her schedule.

## MARCH BOARD AGENDA ITEMS

1. Adopt Resolution Recognizing Funds and Accepting Terms and Conditions for FY 2015-16 Carl Moyer Program Award, Issue Program Announcements for Carl Moyer Program and SOON Provision, Execute and Amend Contracts, and Amend SOON Provision Implementation Guidelines

These actions are to adopt a resolution recognizing up to \$26 million in Carl Moyer Program grant awards from CARB under SB 1107 with its terms and conditions for FY 2015-16 and to approve the release of Program Announcements for the FY 2015-16 "Year 18" Carl Moyer Program and SOON Provision to provide incentive funding for low-emitting on- and off-road vehicles and equipment. Additionally, these actions are to execute and amend contracts in the amount of \$570,799, comprised of \$542,300 from the Air Quality Investment Fund, Rule 2202 Program (27), and \$28,499 from the Carl Moyer Program SB 1107 Fund (32). Finally, this action is to approve amendments to the SOON Provision Implementation Guidelines.

Moved by Robinson; seconded by Buscaino; unanimously approved.

Ayes:Buscaino, McCallon, Mitchell, Robinson, BenoitNoes:NoneAbsent:Rutherford

# 2. Execute Contract to Cost-Share Alternative Fuel Station Expansion 📠

Ontario CNG Station, Inc. (Ontario CNG) is a comprehensive public access fueling facility located at a busy intersection adjacent to the Ontario International Airport and I-10 corridor. It is a conventional, continuously manned fueling station with a car wash and convenience store that provides petroleum- and bio-based and CNG fuels and is developing on-site-produced hydrogen fuel and electric vehicle charging. The significant CNG fueling demand at this location is currently supplied by a single compressor, placing a burden on its users which include school bus and long-haul goods movement vehicle operators. This action is to execute a contract with Ontario CNG in an amount not to exceed \$200,000 from the Clean Fuels Fund (31) to cost-share the expansion of the CNG station.

Staff presented a summary of the CNG station expansion project. Councilmember Robinson inquired about the source and availability of renewable natural gas (RNG), onsite storage and pricing of CNG and potential grants for other adjacent CNG stations. Staff responded that RNG is typically produced from landfills and bio wastes, and is readily available from local and out-of-state producers. Staff further clarified that "useable" Gasoline Gallon Equivalents is a unit of measure for cascade-type refueling stations. Lastly, staff indicated that other stations, such as the Clean Energy station, have received funding from the SCAQMD or MSRC.

Supervisor Benoit inquired about the frequency of these types of multi-fuel stations, and staff responded that some stations have a diversity of fuels, but not to the degree of the Ontario CNG LLC Station.

Moved by McCallon; seconded by Mitchell; unanimously approved.

Ayes:Buscaino, McCallon, Mitchell, Robinson, BenoitNoes:NoneAbsent:Rutherford

# 3. Establish Special Revenue Fund, Recognize and Transfer Funds, and Execute Contracts to Develop and Demonstrate Zero Emission Capable Drayage Trucks

SCAQMD received a \$23,658,500 award to develop and demonstrate zero emission drayage trucks under CARB's Low Carbon Transportation Greenhouse Gas Reduction Fund Investments, with a total project cost of \$40,122,470. Based on total match requirements, SCAQMD is providing \$6,001,531, partnering air districts are providing \$4,400,000 in cash and other project partners are providing \$6,062,439 in-kind. This action is to establish the GHG Reduction Projects Special Revenue Fund and recognize revenue upon receipt in the amount of \$28,058,500 into this Special Revenue Fund. This action is to also transfer SCAQMD's cost-share of \$6,001,531 from the Clean Fuels Fund (31) to the GHG Reduction Projects Special Revenue Fund and to execute contracts for the development and demonstration of zero emission drayage trucks.

Councilman Buscaino recused himself due to a campaign contribution from BYD Motors.

Councilmember Robinson inquired about the rationale behind the funding distributions between OEMs and commented on the effectiveness of the weight reduction measures used by Volvo on the drayage truck. Staff responded that one of the main criteria for the SCAQMD's proposed project was to engage major truck OEMs, rather than working with small vehicle integrators, to improve the prospects for commercializing the technologies to be demonstrated in this project, and the number of trucks was based on the original equipment manufacturer's (OEM's) proposals to the SCAQMD. Staff recognized that weight reductions are negligible relative to the potential payloads.

Supervisor Benoit inquired if the demonstration fleets will be making any payments to use these electric drayage trucks. Staff clarified that participating fleets will contribute in-kind resources, but will not provide cash contributions.

Committee Members Mitchell and Benoit complimented staff on a comprehensive proposal incorporating OEM's and other air districts' participation.

Moved by Mitchell; seconded by Robinson; passed by a 4-0 vote.

Ayes:	McCallon, Mitchell, Robinson, Benoit
Noes:	None
Abstention:	Buscaino
Absent:	Rutherford

#### 4. Recognize Revenue and Appropriate Funds to Develop Low-Cost Sensor Network for Monitoring PM Emissions from Waste Disposal and Recycling Facility

SCAQMD and Rainbow Transfer/Recycling Inc. (Rainbow) have entered into a Stipulated Order for Abatement to resolve their dispute over application of Rule 410 and to achieve compliance with the Rule's enclosure requirement. Pursuant to the agreement set forth in the Stipulated Order for Abatement, Rainbow contributed \$40,000 to SCAQMD's General Fund for an air monitoring study to measure potential fugitive PM emissions from the facility using low-cost sensors. This action is to recognize \$40,000 in revenue into the General Fund and appropriate this amount to the Science & Technology Advancement Budget to support the development and implementation of a PM monitoring sensor network.

Councilmember Buscaino asked about the need for a study and why not just move forward and deploy the product. Staff responded that while the individual sensors have been tested and are available for deployment, the sensor network must be designed and assembled first and then deployed. The study is expected to last for six to twelve months, and staff have already initiated designing the network. It will be ready for deployment within the next few months.

Mayor McCallon asked if the 900 MHz wireless mesh network is being used by anyone in the area. Staff does not believe so; however, this pilot study will help assess whether there are any external interferences. Supervisor Benoit asked whether it was wireless; staff responded yes.

Councilmember Mitchell noted the NOVs/large fines incurred by the Rainbow Environmental Services dump and concurred that this was a good use of the sensors at their facility. Staff reminded everyone this is not an enforcement tool, but rather a diagnostic tool for the regulated entity to facilitate compliance.

Moved by Buscaino; seconded by McCallon; unanimously approved.Ayes:Buscaino, McCallon, Mitchell, Robinson, BenoitNoes:NoneAbsent:Rutherford

#### 5. Authorize Acquisition of Four Advanced Technology Vehicles for SCAQMD's Alternative Fuel Vehicle Demonstration Program

SCAQMD tests and demonstrates new vehicles with low- and zero-emission technologies as they become available. This action is to purchase three Chevrolet Volts and one Toyota RAV4 EV that are in current use in the SCAQMD fleet and with carpool lane access stickers, prior to expiration of their leases. The total cost to the SCAQMD for these four vehicles will not exceed \$107,000 from the Clean Fuels Fund (31).

Moved by Mitchell; seconded by Robinson; unanimously approved.Ayes:Buscaino, McCallon, Mitchell, Robinson, BenoitNoes:NoneAbsent:Rutherford

#### 6. Approve and Adopt Technology Advancement Office 2015 Clean Fuels Program Annual Report, 2016 Plan Update, and Resolution

Each year by March 31, the Technology Advancement Office must submit to the California Legislative Analyst an approved Annual Report for the past year and a Plan Update for the current calendar year. Staff has reviewed the Clean Fuels Program with the Clean Fuels Advisory Group, the Technology Advancement Advisory Group and other technical experts. Additionally, the 2016 Clean Fuels Program Draft Plan Update was presented to the Technology Committee for review and comment at its October 16, 2015 meeting and included as an attachment to the Technology Committee report for the full Board. This action is to approve and adopt the final Technology Advancement Clean Fuels Program Annual Report for 2015 and 2016 Plan Update as well as the resolution finding that proposed projects do not duplicate any past or present programs.

Moved by Mitchell; seconded by Robinson; unanimously approved.Ayes:Buscaino, McCallon, Mitchell, Robinson, BenoitNoes:NoneAbsent:Rutherford

## 7. Other Business

There was no other business.

## 8. Public Comment Period

There was no public comment.

#### Next Meeting: March 18, 2016

Attachment Attendance

## Attachment – Attendance

Supervisor John J. Benoit (via videoconference)	SCAQMD Governing Board
Councilmember Joe Buscaino (via videoconference)	SCAQMD Governing Board
Mayor Larry McCallon	SCAQMD Governing Board
Councilmember Judith Mitchell (via videoconference)	SCAQMD Governing Board
Councilmember Dwight Robinson	SCAQMD Governing Board
Mark Abramowitz	Board Consultant (Lyou)
Ron Ketcham	Board Consultant (McCallon)
Marisa Perez	Board Consultant (Mitchell)
Mark Taylor	Board Consultant (Rutherford)
John Olvera, Principal Deputy District Counsel	SCAQMD
Matt Miyasato, STA	SCAQMD
Henry Hogo, STA	SCAQMD
Fred Minassian, STA	SCAQMD
Laki Tisopulos, STA	SCAQMD
Naveen Berry, STA	SCAQMD
Dean Saito, STA	SCAQMD
Phil Barroca, STA	SCAQMD
Brian Choe, STA	SCAQMD
Connie Day, STA	SCAQMD
Drue Hargis, STA	SCAQMD
Lisa Mirisola, STA	SCAQMD
Gregory Rowley, IM	SCAQMD
Penny Shaw Cedillo, STA	SCAQMD
Pat Krayser, STA	SCAQMD
Danielle Robinson	CARB