

BOARD MEETING DATE: July 6, 2018

AGENDA NO. 5

PROPOSAL: Execute and Amend Contracts for Technical Assistance for Advanced, Low and Zero Emissions Mobile and Stationary Source Technologies and Implementation of Incentive Programs

SYNOPSIS: On February 2, 2018, the Board approved the release of an RFQ to solicit proposals to provide technical assistance, implementation and outreach support for advanced, low and zero emissions technologies for the Clean Fuels Program and various incentive funding programs. Sixteen proposals were received in response to the solicitation. These actions are to execute or amend contracts with 11 technical experts to provide technical assistance and outreach support in an amount not to exceed \$2,810,000, comprised of \$810,000 from the Clean Fuels Program Fund (31), \$450,000 from the Carl Moyer Program AB 923 Fund (80), \$375,000 from the Community Air Protection AB 134 Fund (77) and \$1,175,000 from the HEROS II Special Revenue Fund (56). Funding from the Carl Moyer AB 923, AB 134 and HEROS II special revenue funds will be from the administrative portion of those funds.

COMMITTEE: Technology, June 15, 2018; Recommended for Approval

RECOMMENDED ACTIONS:

1. Authorize the Chairman to execute the following contracts in an amount not to exceed \$810,000 from the Clean Fuels Program Fund (31):
 - a) AEE Solutions LLC for technical assistance with heavy-duty vehicle emissions testing, analyses and engines development and applications in an amount not to exceed \$100,000;
 - b) CALSTART, Inc., for deployment and demonstration of infrastructure and mobile source applications in an amount not to exceed \$150,000;
 - c) Clean Fuel Connection, Inc., (CFCI) for technical assistance with alternative fuels, electric vehicles, charging and fueling infrastructure and renewable energy in an amount not to exceed \$100,000;
 - d) Eastern Research Group for technical assistance with heavy-duty vehicle emissions testing, analyses and engines development and applications in an amount not to exceed \$50,000;

- e) Gladstein, Neandross & Associates LLC (GNA) for technical assistance with alternative fuels and fueling infrastructure, emissions analysis and on-road sources in an amount not to exceed \$200,000;
 - f) Hydrogen Ventures for assistance with hydrogen infrastructure projects in an amount not to exceed \$50,000;
 - g) TechCompass for assistance with evaluation of combustion engines and alternative fuel technologies in an amount not to exceed \$10,000; and
 - h) University of California Riverside (UCR) for technical assistance with heavy-duty vehicle emissions testing, analyses and engines development and applications in an amount not to exceed \$150,000.
2. Authorize the Chairman to execute the following contracts for proposal evaluations and implementation of the Carl Moyer Program (including the School Bus Program) in an amount not to exceed \$450,000 from the administrative portion of the Carl Moyer Program AB 923 Fund (80):
- a) CALSTART, Inc., in an amount not to exceed \$150,000; and
 - b) CFCI in an amount not to exceed \$300,000.
3. Authorize the Chairman to execute the following contracts for outreach support, proposal evaluations, grant management systems and implementation of the Carl Moyer-Community Air Protection Program for a total of \$375,000 from the administrative portion of the Community Air Protection AB 134 Fund (77):
- a) CFCI in an amount not to exceed \$175,000;
 - b) GNA in an amount not to exceed \$100,000;
 - c) Liberty Hill Foundation in an amount not to exceed \$25,000; and
 - d) Sonoma Technology, Inc., in an amount not to exceed \$75,000.
4. Authorize the Chairman to execute or amend the following contracts for technical assistance, implementation and outreach support of the Enhanced Fleet Modernization Program in an amount not to exceed \$1,175,000 from the administrative portion of the HEROS II Special Revenue Fund (56):
- a) A contract amendment with CFCI in an amount not to exceed \$500,000;
 - b) A contract amendment with the Foundation for California Community Colleges (FCCC) in an amount not to exceed \$650,000; and
 - c) A contract with Liberty Hill Foundation in an amount not to exceed \$25,000.

Wayne Natri
Executive Officer

MMM:FM

Background

The AQMP is the comprehensive regional plan for attaining federal air quality standards in the South Coast Air Basin. In addition to full implementation of current technologies and control methods, there is a need to further develop and promote technological breakthroughs. Air quality projections indicate that the federal standards for PM_{2.5} and ozone are not expected to be met without aggressive implementation of commercial technologies and accelerated development of new technologies.

The Technology Advancement Office (TAO) administers two programs to accomplish these goals. The Clean Fuels Program supports projects to research, develop, demonstrate and deploy technologies to accelerate commercialization of clean, new technologies. The Carl Moyer, Proposition 1B-Goods Movement, Lower-Emission School Bus, Enhanced Fleet Modernization Programs and other similar programs provide incentive funding to end-users to implement the cleanest available technologies for various light-duty vehicles, and heavy-duty on- and off-road applications. Due to constant and rapid changes in technologies and the sheer breadth of the potential projects, staff occasionally requires input from experts and in-the-field practitioners to aid in selecting and establishing projects for the Clean Fuels Program and to implement various incentive programs.

On February 2, 2018, the Board approved RFQ #Q2018-12 to solicit proposals for technical assistance for the Clean Fuels Program and implementation of various incentive funding programs. The RFQ solicited statements of qualifications from individuals and organizations potentially capable of providing technical assistance in a variety of areas to support staff activities. The RFQ sought companies or individuals to provide assistance in assessment of zero emissions and goods movement technologies; technical assistance for feasibility studies of stationary and mobile emissions control technologies; emissions assessment of new alternative fuel technologies; evaluation of innovative emissions control systems; assessment of economic, regulatory and technical barriers to the commercialization of clean fuels and advanced technologies; and to implement various incentive programs.

Outreach

In accordance with SCAQMD's Procurement Policy and Procedure, a public notice advertising the RFQ and inviting bids was published in the Los Angeles Times, the Orange County Register, the San Bernardino Sun, and Riverside County's Press Enterprise newspapers to leverage the most cost-effective method of outreach to the South Coast Basin.

Additionally, potential bidders may have been notified utilizing SCAQMD's own electronic listing of certified minority vendors. Notice of the RFQ was emailed to the Black and Latino Legislative Caucuses and various minority chambers of commerce and business associations, and placed on the Internet at SCAQMD's website (<http://www.aqmd.gov>).

Proposal Evaluation

Sixteen proposals were received in response to RFQ #Q2018-12. The proposals were evaluated and scored by a three-member panel in accordance with established SCAQMD guidelines. The panel consisted of one Assistant Deputy Executive Officer, one Technology Demonstration Manager and one Technology Implementation Manager. The panel breakdown was as follows: two males and one female; two Caucasians and one Asian Pacific Islander. The panel scores are shown in Table 1 of the attachment. Based on these scores and current needs, staff is recommending funding levels for each of the proposers as shown in Table 2 of the attachment. The technical expertise of five proposers - Fossil Energy Research Corporation, Oji Environmental Services, Energy Solutions, Norton Engineering, Energetics, Inc., - did not match the specific objectives and needs of the SCAQMD's demonstration and implementation programs at this time and are therefore not recommended for awards.

Proposal

This action is to execute level-of-effort contracts as follows:

AEE Solutions LLC will provide technical assistance with heavy-duty vehicles emissions testing, analyses and engine development and applications in an amount not to exceed \$100,000 from the Clean Fuels Program Fund (31). The team at AEE Solutions LLC has professional experience and proven expertise in the areas of alternative fuels, low and zero emissions technologies, emissions controls, federal policies and state regulations.

CALSTART, Inc., will provide assistance with deployment and demonstration of infrastructure and mobile source applications in an amount not to exceed \$300,000, comprised of \$150,000 from the Clean Fuels Program Fund (31) and \$150,000 from the Carl Moyer Program AB 923 Fund (80). The team at CALSTART has professional experience and expertise in the areas of infrastructure development, zero emission buses, near-zero emission medium- and heavy-duty vehicles and strategies for zero and near-zero market expansion. They have been assisting CARB in the implementation of HVIP during the past several years.

Clean Fuel Connection, Inc., (CFCI) will provide technical assistance with alternative fuels, electric vehicles, charging and fueling infrastructure and renewable energy as well as technical assistance on continued implementation and reporting for the Carl Moyer Program, including the School Bus and the Carl Moyer-Community Air Protection Programs, and the Enhanced Fleet Modernization Program (EFMP) in an amount not to exceed \$1,075,000, comprised of \$100,000 from the Clean Fuels Program Fund (31), \$300,000 from the Carl Moyer Program AB 923 Fund (80), \$175,000 from the Community Air Protection AB 134 Fund (77) and \$500,000 from the HEROS II Special Revenue Fund (56). Ms. Enid Joffe (principal) has more than 15 years of experience with low and zero emissions technologies, electric vehicles and charging infrastructure and renewable energy.

Eastern Research Group will provide technical assistance with vehicles emissions testing, analyses and engine development and applications in an amount not to exceed \$50,000 from the Clean Fuels Program Fund (31). The group at Eastern Research Group has experience and capabilities in conducting both dynamometer and in-use emissions measurements.

Foundation for California Community Colleges (FCCC) has successfully provided assistance for the implementation of the EFMP program by providing case management and outreach support since its inception. FCCC will continue to provide assistance for the implementation of this program in an amount not to exceed \$650,000 from the HEROS II Special Revenue Fund (56).

Gladstein, Neandross & Associates LLC (GNA) will provide technical expertise with alternative fuels and fueling infrastructure, emissions analysis, on-road sources and outreach activities in an amount not to exceed \$300,000, comprised of \$200,000 from the Clean Fuels Program Fund (31) and \$100,000 from the Community Air Protection AB 134 Fund (77). GNA has partnered with energy, transit, waste management and goods movement companies to develop projects such as the use of LNG in cargo handling equipment at the Ports of Los Angeles and Long Beach, evaluation of the feasibility of utilizing LNG in the Ports' yard equipment and the development of strategies to reduce emissions from construction and operations of the proposed LNG import terminal.

Hydrogen Ventures will provide assistance with hydrogen infrastructure and related projects in an amount not to exceed \$50,000 from the Clean Fuels Program Fund (31). The team at Hydrogen Ventures has conducted several studies on viability of hydrogen technology and fueling.

Liberty Hill Foundation, a nonprofit organization, will provide assistance with SCAQMD outreach efforts in disadvantaged and low-income communities for the implementation of incentive funding programs in those areas in an amount not to exceed \$50,000, comprised of \$25,000 from the Community Air Protection AB 134 Fund (77) and \$25,000 from the HEROS II Special Revenue Fund (56). Liberty Hill Foundation has considerable experience in identifying and reaching out to disadvantage communities for various types of projects.

Sonoma Technology, Inc., will provide assistance with the identification, evaluation and development of grant management systems, including web-based and mobile applications as appropriate, for program management and reporting for the Carl Moyer Program in an amount not to exceed \$75,000 from the Community Air Protection AB 134 Fund (77). Sonoma Technology has an experienced staff with expertise in implementation of web-based and mobile application systems.

TechCompass will provide assistance with evaluation of combustion engines and alternative fuel technologies in an amount not to exceed \$10,000 from the Clean Fuels Program Fund (31). Mr. Andy Abele (principal) has more than 20 years of experience with research and development in combustion technology projects.

University of California Riverside (UCR) will provide technical assistance with heavy-duty vehicle emissions testing, analyses and engine development and applications in an amount not to exceed \$150,000 from the Clean Fuels Program Fund (31). The team at the UCR has professional experience and proven expertise in the areas of alternative fuels, low and zero emissions technologies, emissions testing, and federal policies and state regulations.

Benefits to SCAQMD

The proposed awards will support the implementation of Clean Fuels, Carl Moyer and EFMP Programs. In addition, outside expertise will provide an effective means of evaluating new technologies and assessing emissions reductions.

Resource Impacts

Total amount of awards will not exceed \$2,810,000, comprised of \$810,000 from the Clean Fuels Program Fund (31), \$450,000 from the Carl Moyer Program AB 923 Fund (80), \$375,000 from the Community Air Protection AB 134 Fund (77) and \$1,175,000 from the HEROS II Special Revenue Fund (56).

Sufficient funds are available from the Clean Fuels Program Fund, established as a special revenue fund resulting from the state-mandated Clean Fuels Program to cover the proposed \$540,000 for outside technical assistance. The Clean Fuels Program, under Health and Safety Code Sections 40448.5 and 40512 and Vehicle Code Section 9250.11, establishes mechanisms to collect revenues from mobile sources to support projects to increase the utilization of clean fuels, including the development of the necessary advanced enabling technologies. Funds collected from motor vehicles are restricted, by statute, to be used for projects and program activities related to mobile sources that support the objectives of the Clean Fuels Program.

Funding from the Carl Moyer, the Community Air Protection AB 134, and the EFMP funds will be from the administrative portion of those funds.

Attachments

Table 1 – Average Scores for Proposers

Table 2 – Proposed Awards

Table 1. Average Scores for Proposers

Proposer	Technical Points	Labor Rates	Additional Points*	Total Points
AEE Solutions LLC	59	30	0	89
CALSTART, Inc.	60	28	5	93
CFCI	57	28	15	100
Eastern Research Group	58	28	0	86
FCCC	58	30	0	88
GNA	68	20	15	103
Hydrogen Ventures	63	20	15	98
Liberty Hill Foundation	56	25	7	88
Sonoma Technology, Inc	56	25	12	93
TechCompass	58	28	15	101
UCR	66	25	0	91

* The additional points were 10 points each for small business and DVBE, 7 points for use of DVBE subcontractors, 5 points each for low emission vehicle business and local business, and 2 points each for off-peak hours delivery business and most favored customer. The maximum additional points could not exceed 15 points.

Table 2. Proposed Awards

Proposer	Clean Fuels Program Fund (31)	Carl Moyer Program (incl. School Bus & VIP) AB 923 Fund (80)	Community Air Protection AB 134 Fund (77)	HEROS II Special Revenue Fund (56)	Total
AEE Solutions LLC	\$100,000				\$100,000
CALSTART, Inc.	\$150,000	\$150,000			\$300,000
CFCI	\$100,000	\$300,000	\$175,000	\$500,000	\$1,075,000
Eastern Research Group	\$50,000				\$50,000
FCCC				\$650,000	\$650,000
GNA	\$200,000		\$100,000		\$300,000
Hydrogen Ventures	\$50,000				\$50,000
Liberty Hill Foundation			\$25,000	\$25,000	\$50,000
Sonoma Technology, Inc.			\$75,000		\$75,000
TechCompass	\$10,000				\$10,000
UCR	\$150,000				\$150,000
Total	\$810,000	\$450,000	\$375,000	\$1,175,000	\$2,810,000