

BOARD MEETING DATE: November 4, 2011

AGENDA NO. 8

PROPOSAL: Execute Contracts for Technical Assistance for Advanced, Low- and Zero-Emission Mobile and Stationary Source Pollution Control Technologies under Clean Fuels, Carl Moyer and Proposition 1B Programs

SYNOPSIS: On July 8, 2011, the Board approved the release of an RFP to solicit proposals to provide technical assistance and public outreach support for advanced, low- and zero-emission mobile and stationary source pollution control technologies for the Clean Fuels Program and incentive programs. Fifteen proposals were received in response to the solicitation. This action is to execute eleven contracts with technical experts to provide consultation services at a total cost not to exceed \$540,000 from the Clean Fuels Program Fund (31). This action is also to execute one contract at a cost not to exceed \$150,000 from the Carl Moyer Program Fund (32), one contract at a cost not to exceed \$100,000 from the Voucher Incentive Program Fund (59), and five contracts at a cost not to exceed \$650,000 from the Proposition 1B Goods Movement Program Fund (81).

COMMITTEE: Technology, October 21, 2011, Recommended for Approval

RECOMMENDED ACTIONS:

1. Authorize the Chairman to execute the following contracts from the Clean Fuels Program Fund (31):
 - a) Integra Environmental Consulting, Inc. for technical assistance with emission inventories, goods movement, and off-road sources in an amount not to exceed \$35,000;
 - b) University of California, College of Engineering-Center for Environmental Research & Technology for technical assistance with alternative fuels, biofuels, emissions testing, and zero-emission transportation technologies in an amount not to exceed \$75,000;
 - c) The Tioga Group, Inc. for technical assistance with emissions analysis, goods movement, and advanced technologies in an amount not to exceed \$25,000;
 - d) ICF International for technical assistance with goods movement and zero-emission transportation technologies in an amount not to exceed \$50,000;

- e) Tech Compass for technical assistance with alternative fuels, fuel cells, emissions analysis, and aftertreatment technologies in an amount not to exceed \$75,000;
 - f) Joseph C. Calhoun, P.E. Inc. for technical assistance with low- and zero-emission vehicles, engine technology, and emissions analysis in an amount not to exceed \$20,000;
 - g) Clean Fuel Connection, Inc. for technical assistance with alternative fuels, renewable energy, and electric vehicles in an amount not to exceed \$30,000;
 - h) Gladstein, Neandross & Associates for technical assistance with alternative fuels, emissions analysis, and on-road sources in an amount not to exceed \$75,000;
 - i) Jerald A. Cole for technical assistance with alternative fuels, emissions analysis, and combustion technologies in an amount not to exceed \$30,000;
 - j) CALSTART for technical assistance with low- and zero-emission technologies, goods movement, alternative fuels, transit applications, and fueling infrastructure in an amount not to exceed \$50,000; and
 - k) TIAX, LLC for technical assistance with low- and zero-emission vehicles, fuel cells, and fueling infrastructure in an amount not to exceed \$75,000.
2. Authorize the Chairman to execute a contract with Clean Fuel Connection, LLC for technical assistance with the Carl Moyer program in an amount not to exceed \$150,000 from the Carl Moyer Program Fund (32) SB 1107 Account.
 3. Authorize the Chairman to execute a contract with TIAX, LLC from the Voucher Incentive Program Fund (59) in an amount not to exceed \$100,000.
 4. Authorize the Chairman to execute the following contracts from the Proposition 1B Goods Movement Program Fund (81) which will be paid for with Proposition 1B Program funding:
 - a) Power-Tech Engineers, Inc. for technical assistance with the Proposition 1B Goods Movement Program in an amount not to exceed \$200,000;
 - b) Clean Fuel Connection, LLC for technical assistance with the Proposition 1B Goods Movement Program in an amount not to exceed \$50,000; and
 - c) TIAX, LLC for technical assistance with Proposition 1B Goods Movement Program in an amount not to exceed \$200,000.
 5. Authorize the Chairman to execute the following contracts from the Proposition 1B Goods Movement Fund (81) which will be reimbursed by DOE's Goods Movement Truck Replacement Grant award:
 - a) Tetra Tech, Inc. for technical assistance with DOE's Goods Movement Truck Replacement Program in an amount not to exceed \$100,000; and
 - b) TIAX, LLC for technical assistance with DOE's Goods Movement Truck Replacement Program in an amount not to exceed \$100,000.

Barry R. Wallerstein, D.Env.
Executive Officer

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 PM2.5 and ozone are not expected to be met without aggressive implementation of commercial technologies and accelerated development of new technologies. The Technology Advancement Office administers various 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 Program, the Proposition 1B Goods Movement Program, and other similar programs provide incentive funding to end-users to implement the cleanest available technologies for various 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 practitioners in the field to aid in selecting and establishing projects for the Clean Fuels and the incentive programs.

At its July 2011 meeting, the Board approved RFP #P2012-01 to solicit proposals for technical assistance for the Clean Fuels Program and incentive programs such as the Carl Moyer Program and the Proposition 1B Goods Movement Program. The RFP solicited statements of qualifications from individuals and organizations potentially capable of providing technical assistance in a variety of areas to support staff activities. The RFP sought companies or individuals to provide assistance in preparation of AQMP control measures; assessment of zero-emission and goods movement technologies, technical assistance for feasibility studies of stationary and mobile emission 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 incentive programs.

Outreach

In accordance with AQMD's Procurement Policy and Procedure, a public notice advertising the RFP/RFQ and inviting bids was published in the Los Angeles Times, the Orange County Register, the San Bernardino Sun, and Riverside County 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 AQMD's own electronic listing of certified minority vendors. Notice of the RFP/RFQ has been e-mailed to the Black and Latino Legislative Caucuses and various minority chambers of commerce and business associations, and placed on the Internet at AQMD's website (<http://www.aqmd.gov>). Information is also available on AQMD's bidder's 24-hour telephone message line (909) 396-2724.

Proposal Evaluations

Fifteen proposals were received in response to RFP #P2012-01. The proposals were evaluated and scored by a four-member panel in accordance with established AQMD guidelines using the technical criteria outlined in the RFP. The panel consisted of one Technology Implementation Manager, one On-road Mobile Source Manager, one Off-road Mobile Source Manager, and one Technology Demonstration Manager. The panel breakdown was as follows: two Asian and two Caucasian; all male. The panel scores are shown in Table 1 of the attachment. The technical scores are based on the proponent's expertise and experience. As per the requirements of the RFP, proposals are required to receive a minimum of 56 points out of 70 technical points to qualify. One proposal received less than 56 technical points and did not qualify.

For all of the proposals that qualified, staff added the cost effectiveness and additional points (a maximum of 15 points for small business or small business joint venture, disadvantaged veterans' business or DVBE joint venture, use of DVBE or small business subcontractors, use of low emission vehicles, local business, and use of off-peak hours for delivery business). Based on these scores and the current needs, staff is recommending the funding levels for each of the proposers as shown in Table 2.

Proposed Awards

Staff is recommending that eleven proposals be funded under the Clean Fuels Program at a cost not to exceed \$540,000, two proposals be funded under the Carl Moyer Program at a cost not to exceed \$250,000, three proposals be funded from the Proposition 1B Goods Movement Program at a cost not to exceed \$450,000, and two proposals be funded from the Proposition 1B Goods Movement Program Fund (81) in an amount not to exceed \$200,000 which will be reimbursed by DOE's Goods Movement Truck Replacement Grant award.

All these proposed contract awards will be level-of-effort in nature; specific task orders will be issued to address specific technical assignments using the expertise made available under these contracts.

Integra Environmental Consulting, Inc. will provide technical assistance with emission inventories, goods movement, and off-road sources in an amount not to exceed \$35,000 from the Clean Fuels Program Fund (31). Mr. Zorik Pirveysian (principal) has over 26 years of experience in the air quality policy and management planning, emissions inventory, rule development, and development of control strategies.

University of California, College of Engineering-Center for Environmental Research & Technology (CE-CERT) will provide technical assistance with alternative fuels, biofuels, emissions testing, and zero-emission transportation technologies in an amount not to exceed \$75,000 from the Clean Fuels Program Fund (31). CE-CERT has been involved in research activities in the air quality field since 1992. Its staff includes

approximately 120 investigators, staff and students, which includes approximately 30 Ph.D. researchers. Currently CE-CERT is conducting a variety of projects for the AQMD on emissions analysis, biofuels, and zero-emission technologies.

The Tioga Group, Inc. will provide technical assistance with emissions, advanced technologies and operations of the goods movement sector in an amount not to exceed \$25,000 from the Clean Fuels Program Fund (31). All Tioga Group professional staff have at least 25 years of experience in the goods movement sector and are experts in port drayage, rail intermodal operations and cargo forecasting. Tioga staff has been involved in several studies concerning the ports and intermodal yards in Southern California.

ICF International will provide technical assistance with goods movement technologies, alternative fuels, and zero-emission transportation technologies in an amount not to exceed \$50,000 from the Clean Fuels Program Fund (31). ICF is a leading technology firm with over 40 years of experience. ICF has worked as a prime contractor for local, state and federal agencies, and has extensive expertise in the areas of fuels and transportation related issues.

Tech Compass will provide technical assistance with alternative fuels, fuel cells, emissions analysis, and aftertreatment technologies in an amount not to exceed \$75,000 from the Clean Fuels Program Fund (31). Mr. Andris Abele (principal) has more than 28 years of professional experience in bringing environmental, energy, and alternative propulsion technologies from the laboratory to the market. He possesses in-depth knowledge of technology development and a breadth of experience in strategic planning and business development.

Power-Tech Engineers, Inc. will provide technical assistance with shore power projects in an amount not to exceed \$200,000 from the Proposition 1B-Goods Movement Program Fund (81). The company has a strong team that can provide technical assistance on all aspects of the implementation of shore power projects as well as a good understanding of the existing regulations and the operations at the Ports of Los Angeles and Long Beach.

Joseph C. Calhoun, P.E. Inc. will provide technical expertise with stationary sources, engine technology, and aftertreatment technologies in an amount not to exceed \$20,000 from the Clean Fuels Program Fund (31). Mr. Calhoun (principal) is a registered professional engineer with over 48 years of air quality experience, specifically 19 years with General Motors where he was responsible for environmental activities in California and supervision of the vehicle certification testing. Most notably, Mr. Calhoun served for ten years as the Automotive Engineering Member of the CARB Governing Board.

Clean Fuel Connection, Inc. will provide technical assistance with electric vehicles, charging infrastructure, and renewable energy in an amount not to exceed \$30,000 from the Clean Fuels Program Fund (31). Clean Fuel Connection will also provide technical assistance with the Carl Moyer Program at a cost not to exceed \$150,000 from the Carl

Moyer Program Fund SB (32) 1107 Account and with the Proposition 1B Goods Movement Program at a cost not to exceed \$50,000 from the Proposition 1B Goods Movement Fund (81). Ms. Enid Joffe (principal) has more than 15 years experience with low- and zero-emission technologies and renewable energy.

Gladstein, Neandross & Associates (GNA) will provide technical expertise with alternative fueling infrastructure, emission analysis, and on-road sources in an amount not to exceed \$75,000 from the Clean Fuels Program Fund (31). 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. Currently, GNA has a significant balance in an existing contract with AQMD to cover the implementation and outreach efforts for incentive programs. With the \$75,000 proposed augmentation staff estimates that there will be adequate funding.

Jerald A. Cole will provide technical assistance with alternative fuels, emissions analysis, and combustion technologies, in an amount not to exceed \$30,000 from the Clean Fuels Program Fund (31). Mr. Cole (principal) has over 30 years of experience in the fields of emission controls, combustion technologies, hydrogen, alternative fuels, and stationary engines, and in addition has extensive experience in providing services to local, state and federal environmental agencies.

Tetra Tech, Inc. will provide technical assistance with the Proposition 1B Goods Movement Program on the continued implementation and reporting in an amount not to exceed \$100,000 from the Proposition 1B Goods Movement Fund (81), which will be reimbursed by DOE's Goods Movement Truck Replacement Program. Tetra Tech has a long-working experience at the Ports and can especially provide assistance on the monitoring and operation of the drayage trucks as well as evaluation of similar projects under the goods movement program.

CALSTART will provide technical assistance with low- and zero-emission technologies, goods movement, alternative fuels, transit applications, and fueling infrastructure in an amount not to exceed \$50,000 from the Clean Fuels Program Fund (31). CALSTART has extensive expertise in the areas of alternative fuel vehicles and infrastructure, advanced transportation technology development and demonstrations, transit bus technologies, fueling infrastructure, alternative fuels, and electric and hybrid-electric vehicles.

TIAX, LLC will provide technical assistance with low- and zero-emission vehicles, alternative fuels, and fuel cells in an amount not to exceed \$75,000 from the Clean Fuels Program Fund (31). TIAX will also provide technical assistance with the Carl Moyer Program at a cost not to exceed \$100,000 from the Voucher Incentive Program Fund

(59), the Proposition 1B Goods Movement Program in an amount not to exceed \$200,000 from the Prop 1B Goods Movement Fund (81), and in an additional amount not to exceed \$100,000 from the Prop 1B Goods Movement Fund (81) which will be reimbursed by DOE's Goods Movement Truck Replacement Program. Mr. Jon Leonard, TIAX Project Manager, has over 24 years experience with low- and zero-emission mobile source technologies, emissions testing, and alternative fuel vehicles. AQMD has used TIAX's expertise and services for a wide variety of Clean Fuels Program and Incentive Program projects, especially for evaluating Proposition 1B applications. With the current workload of incentive programs, it is envisioned that AQMD will use TIAX's services extensively.

Benefits to AQMD

The proposed awards will support the implementation of TAO's Clean Fuels Program, Carl Moyer Program and Proposition 1B Goods Movement Program. In addition, outside expertise will provide an effective means of evaluating new technologies and assessing emission reductions.

Resource Impacts

Sufficient funds are available from the Clean Fuels Program Fund (31), 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.

Sufficient funds are available in the Voucher Incentive Program Fund (59) and in the administrative portion of the Carl Moyer Fund (32) for the total cost of the proposed awards not to exceed \$250,000. Sufficient funds are also available in the Prop 1B Goods Movement Fund (81) in the administrative portion of the Proposition 1B Goods Movement Program for the proposed \$450,000 awards, and in DOE's Goods Movement Truck Replacement Grant award to cover the proposed \$200,000 for the projects.

Attachment

Table 1 – Average Scores for Proposers

Table 2 – Area of Expertise and Proposed Awards

ATTACHMENT

Table 1. Average Scores for Proposers

Proposer	Technical Points*	Additional Points	Cost Points	Total Points
Protium Energy Technologies	58	10	9	77
Integra Environmental Consulting, Inc.	58	15	16	89
University of California, CE-CERT	63	5	30	98
The Tioga Group	59	10	13	82
ICF International	62	5	10	77
Tech Compass	59	15	9	83
Power-Tech Engineers, Inc.	60	15	13	88
Joseph C. Calhoun, P.E., Inc.	60	15	13	88
Clean Fuel Connection, Inc.	63	15	15	93
Gladstein, Neandross & Associates	65	15	11	91
Jerald A. Cole	60	15	17	92
Tetra Tech, Inc.	63	5	10	78
CALSTART	64	5	15	84
TIAX, LLC.	65	5	12	82

*A minimum of 56 out of 70 Technical Points is required to qualify.

Table 2. Area of Expertise and Proposed Awards

Proposer	Area of Expertise	Clean Fuels	Carl Moyer	Proposition 1B	DOE	Total
Integra Environmental Consulting, Inc.	Emission Inventories, Goods Movement, Off-Road Sources	\$35,000				\$35,000
University of California, CE-CERT	Alternative Fuels, Biofuels, Emissions Testing, Zero-Emission Transportation Technologies	75,000				75,000
The Tioga Group	Emissions Analysis, Goods Movement, Infrastructure Projects	25,000				25,000
ICF International	Goods Movement, Zero-Emission Transportation Technologies	50,000				50,000
Tech Compass	Alternative Fuels, Fuel Cells, Aftertreatment Technologies	75,000				75,000
Power-Tech Engineers, Inc.	Shore Power Projects, Stationary Sources			\$200,000		200,000
Joseph C. Calhoun, P.E., Inc.	Low- and Zero-Emission Vehicles, Engine Technology, Emissions Analysis	20,000				20,000
Clean Fuel Connection, Inc.	Alternative Fuels, Renewable Energy, Electric Vehicles, Incentive Programs	30,000	\$150,000	50,000		230,000
Gladstein, Neandross & Associates	Alternative Fuels, Emissions Analysis, On-Road Sources	75,000				75,000
Jerald A. Cole	Alternative Fuels, Combustion Technology, Emissions Analysis	30,000				30,000
Tetra Tech, Inc.	Low- and Zero-Emission Transportation Technologies, Port Projects, Goods Movement, Incentive Programs				\$100,000	100,000
CALSTART	Low- and Zero-Emission Transportation Technologies, Goods Movement, Alternative Fuels, Transit Applications	50,000				50,000
TIAX, LLC.	Low- and Zero-Emission Transportation Technologies, Goods Movement, Incentive Programs	75,000	100,000*	200,000	100,000	475,000
Total		\$540,000	\$250,000	\$450,000	\$200,000	\$1,440,000

*Carl Moyer Multi-District Program