



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
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TECHNOLOGY COMMITTEE MEETING

Committee Members

Council Member Joe Buscaino, Chair
Supervisor Lisa Bartlett
Board Member Gideon Kracov
Council Member Judith Mitchell
Council Member Carlos Rodriguez

June 19, 2020 ♦ 12:00 p.m.

Pursuant to Governor Newsom's Executive Orders N-25-20 (March 12, 2020) and N-29-20 (March 17, 2020), the South Coast AQMD Technology Committee meeting will only be conducted via video conferencing and by telephone. Please follow the instructions below to join the meeting remotely.

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AGENDA

Members of the public may address this body concerning any agenda item before or during consideration of that item (Gov't. Code Section 54854.3(a)). If you wish to speak, raise your hand on Zoom or press Star 9 if participating by telephone. All agendas for regular meetings are posted at South Coast AQMD Headquarters, 21865 Copley Drive, Diamond Bar, California, at least 72 hours in advance of the regular meeting. Speakers may be limited to three (3) minutes each.

CALL TO ORDER

ACTION ITEMS – Items 1-4:

1. Adopt Resolution Recognizing Funds for FY 2019-20 Carl Moyer State Reserve Program and Redistribute Funding Sources for Incentive Projects to Facilitate Timely Implementation
(Motion Requested)

Vicki White
Technology
Implementation
Manager

In April 2020, CARB approved allocations for the FY 2019-20 Carl Moyer “Year 22” State Reserve Program, including \$4,275,655 to the South Coast AQMD for heavy-duty truck projects eligible pursuant to the On-Road Heavy-Duty Vehicle Voucher Incentive Program (VIP). This action is to adopt a Resolution recognizing up to \$4.3 million in FY 2019-20 Carl Moyer State Reserve funds from CARB. The Board also periodically approves awards for incentive projects using a variety of funding sources. Some projects experience delays in contract executions, equipment purchase and deliveries as well as cancellations due to a variety of issues. As a result of the COVID-19 pandemic and associated economic impacts, staff anticipates additional delays may forestall the liquidation of funds per mandated grant timelines. This action is to also allow the redistribution of funding sources, as needed, for incentive projects to facilitate timely liquidation.

2. Issue Program Announcement for Zero-Emission Class 8 Freight and Port Drayage Trucks Eligible Under Statewide Volkswagen Environmental Mitigation Trust Program and Execute Contracts for Selected Eligible Projects
(Motion Requested)

Ping Gui
Program Supervisor

In November 2018 and March 2020, the Board recognized revenue up to \$165 million to administer and implement two of the five project funding categories for the Volkswagen (VW) Environmental Mitigation Trust Program. For the category of Zero-Emission Class 8 Freight and Port Drayage Trucks, the first installment of VW project funds totaling \$27 million is available for eligible vehicles selected through a first-come, first-served solicitation. This action is to issue a statewide Program Announcement for the VW Zero-Emission Class 8 Freight and Port Drayage Trucks category totaling \$27 million for eligible vehicles selected on a first-come, first-served basis. This action is to also authorize the Executive Officer to enter into contracts for eligible projects selected through this solicitation.

3. Issue RFP for Qualified Installers of Global Positioning Devices for Marine Vessel Projects
(Motion Requested)

Walter Shen
Program Supervisor

South Coast AQMD requires all marine vessel engine repowering projects funded by the Carl Moyer Program to install a Global Positioning System (GPS) on the vessel in order to monitor operation within South Coast AQMD’s jurisdictional waters. These marine vessel projects are required to operate at least 75 percent of the time in South Coast AQMD’s jurisdictional waters throughout the contract life. However, South Coast AQMD’s contract with the previous installer has expired. This action is to issue an RFP soliciting bids from qualified vendors for

the purchase, installation, tracking and monitoring of GPS devices equipped with electronic monitoring units on marine vessels funded by the Carl Moyer Program.

4. Execute Contract to Investigate Effects of Ethanol-Gasoline Fuel Blend from Light-Duty Vehicles on Criteria Emissions and Secondary Organic Aerosol Formation

Sam Cao
AQ Specialist

(Motion Requested)

In May 2019, the U.S. EPA approved the use of gasoline blended with up to 15 percent ethanol by volume (E15) for year-round use to support renewable fuel standards and energy independence. Past studies have shown that light-duty gasoline vehicles are significant sources of NO_x, VOC and other precursor gas emissions, which together contribute to secondary organic aerosol (SOA) formation and higher PM_{2.5} in the South Coast Air Basin. CARB, along with the ethanol industry and the University of California, Riverside (UCR)/CE-CERT, has proposed a fuel study measuring criteria and toxic pollutant emissions from 20 gasoline vehicles using E15. This action is to execute a contract with UCR/CE-CERT to perform investigation of E15 gasoline fuel effects on criteria and toxic pollutant emissions and SOA formation from light-duty vehicles in amount not to exceed \$200,000 from the Clean Fuels Program Fund (31).

INFORMATIONAL ITEM – Item 5:

5. California Fuel Cell Partnership Executive Board Meeting Agenda and Activity Update

Lisa Mirisola
Program Supervisor

(No Motion Required)

This report provides the California Fuel Cell Partnership Executive Board Agenda for the meeting held May 19, 2020 and provides the Activity Update for the fourth quarter of 2019 and first quarter of 2020.

OTHER MATTERS:

6. Other Business

Any member of the Committee, or its staff, on his or her own initiative or in response to questions posed by the public, may ask a question for clarification, may make a brief announcement or report on his or her own activities, provide a reference to staff regarding factual information, request staff to report back at a subsequent meeting concerning any matter, or may take action to direct staff to place a matter of business on a future agenda. (Gov't. Code Section 54954.2)

7. Public Comment Period

At the end of the regular meeting agenda, an opportunity is provided for the public to speak on any subject within the Committee's authority that is not on the agenda. Speakers may be limited to three (3) minutes each.

8. Next Meeting Date

Friday, August 21, 2020 at 12:00 pm

ADJOURNMENT

Document Availability

All documents (i) constituting non-exempt public records, (ii) relating to an item on an agenda for a regular meeting, and (iii) having been distributed to at least a majority of the Committee after the agenda is posted, are available by contacting Alejandra Vega at (909) 396-2264, or send the request to avega@aqmd.gov.

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Disability and language-related accommodations can be requested to allow participation in the Technology Committee meeting. The agenda will be made available, upon request, in appropriate alternative formats to assist persons with a disability (Gov't Code Section 54954.2(a)). In addition, other documents may be requested in alternative formats and languages. Any disability or language-related accommodation must be requested as soon as practicable. Requests will be accommodated unless providing the accommodation would result in a fundamental alteration or undue burden to South Coast AQMD. Please contact Alejandra Vega at 909.396.2264 from 7:30 a.m. to 6:00 p.m., Tuesday through Friday, or send the request to avega@aqmd.gov.

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After each agenda item, the Chairman will announce public comment.

A countdown timer will be displayed on the screen for each public comment.

If interpretation is needed, more time will be allotted.

Once you raise your hand to provide public comment, your name will be added to the speaker list. Your name will be called when it is your turn to comment. The host will then unmute your line.

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- This will signal to the host that you would like to provide a public comment and you will be added to the list.

Directions for Video Zoom on a SMARTPHONE:

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Directions for TELEPHONE line only:

- If you would like to make public comment, please **dial *9** on your keypad to signal that you would like to comment.

Technology Committee Agenda #1

BOARD MEETING DATE: August 7, 2020

AGENDA NO.

PROPOSAL: Adopt Resolution Recognizing Funds for FY 2019-20 Carl Moyer State Reserve Program and Redistribute Funding Sources for Incentive Projects to Facilitate Timely Implementation

SYNOPSIS: In April 2020, CARB approved allocations for the FY 2019-20 Carl Moyer “Year 22” State Reserve Program, including \$4,275,655 to the South Coast AQMD for heavy-duty truck projects eligible pursuant to the On-Road Heavy-Duty Vehicle Voucher Incentive Program (VIP). This action is to adopt a Resolution recognizing up to \$4.3 million in FY 2019-20 Carl Moyer State Reserve funds from CARB. The Board also periodically approves awards for incentive projects using a variety of funding sources. Some projects experience delays in contract executions and equipment purchase and deliveries, as well as cancellations due to a variety of varying issues. As a result of the COVID-19 pandemic and associated economic impacts, staff anticipates additional delays may forestall the liquidation of funds per mandated grant timelines. This action is to also allow the redistribution of funding sources, as needed, for incentive projects to facilitate timely liquidation.

COMMITTEE: Technology, June 19, 2020; Recommended for Approval

RECOMMENDED ACTIONS:

1. Adopt the attached Resolution recognizing, upon receipt, up to \$4.3 million in FY 2019-20 Carl Moyer State Reserve funds (Grant #G19-MO47) from CARB into the VIP Program Fund (59); and
2. Authorize the Executive Officer to redistribute the source of funds within and/or between the Carl Moyer Program Fund (32), including SB 1107, SOON, State Reserve, FARMER and associated interest funds, the Carl Moyer AB 923 Match Funds (80) match funds and the Community Air Protection Fund (77), as needed, in

order to facilitate timely liquidation to the extent that such actions are not in conflict with any applicable guideline, requirement or direction from CARB.

Wayne Natri
Executive Officer

MMM:NB:VW

Background

Pursuant to Section 44286(d) of the Health and Safety Code, CARB may reserve up to ten percent of the Carl Moyer Program funds available each year for projects that are eligible for funding through the Carl Moyer Program. These funds are referred to as the State Reserve funds. CARB reserves the sole authority to distribute the State Reserve funds each year. For FY 2019-20, approximately \$9.36 million in State Reserve funds are available. In April 2020, CARB approved allocations for the FY 2019-20 (Year 22) Carl Moyer Program State Reserve funds to seven air districts and designated the funds for implementation of the Carl Moyer On-Road Heavy-Duty Vehicle Voucher Incentive Program (VIP). The allocation for the South Coast AQMD is \$4,275,655, which is approximately 45.6 percent of the total State Reserve funds available. South Coast AQMD's allocation includes 6.25 percent in administrative funds.

The VIP Program is a streamlined truck replacement program for small fleets to replace an older heavy-duty diesel vehicle with a newer, lower emission vehicle. South Coast AQMD has been implementing the VIP Program since 2009, which has resulted in the replacement of over 1,200 trucks with grant funds totaling over \$42 million.

Since November 2017, the Board has periodically approved awards for incentive projects using a variety of funding sources, including but not limited to Community Air Protection, Carl Moyer, SOON Provision, Proposition 1B-Goods Movement, State Reserve, FARMER and NOx Remediation Measure funds. Some projects experience delays in contract executions and equipment purchase and deliveries, as well as cancellations due to a variety of issues. As a result of the COVID-19 pandemic and associated economic impacts, staff anticipates additional delays may forestall the liquidation of funds per mandated grant timelines.

Proposal

This action is to adopt the attached Resolution recognizing up to \$4.3 million in FY 2019-20 Carl Moyer Program State Reserve funds from CARB into the VIP Program Fund (59). The State Reserve funds will be used for on-road heavy-duty truck projects that meet the eligibility requirements outlined in the 2020 VIP Program Guidelines.

Staff also proposes to authorize the Executive Officer to redistribute the source of funds within and/or between the Carl Moyer Program Fund (32), including SB 1107, SOON, State Reserve, FARMER and associated interest funds, the Carl Moyer AB 923 Fund (80) match funds, and the Community Air Protection Fund (77), as needed, in order to facilitate timely liquidation to the extent the redistribution would not be in conflict with any applicable guidelines, requirement or direction from CARB.

Benefits to South Coast AQMD

The State Reserve funds will be used to fund heavy-duty truck projects eligible through the VIP which will provide surplus emission reductions of both NOx and PM. Since the vehicles funded by this program will operate for the life of the contract and beyond, the emission reductions will provide long-term benefits.

The incentive projects funded by the various grants will also reduce emissions of NOx and PM that are surplus to existing regulations and will occur throughout the life of the projects resulting in long-term emissions reduction benefits. Additionally, these projects will reduce exposure to toxic diesel exhaust emissions, especially in disadvantaged and low-income communities that are identified in the Carl Moyer and Community Air Protection incentives grants.

Resource Impacts

The State Reserve funds, upon receipt from CARB, will be recognized into the VIP Program Fund (59). Total State Reserve funds for heavy-duty truck projects eligible under the VIP will not exceed \$4.3 million.

This action involves a redistribution of the funding source only and will not affect the Board-approved award amount for each project; therefore, no resource impacts are anticipated.

Attachment Resolution

RESOLUTION NO. 20-

**A Resolution of the South Coast Air Quality Management District Board
Recognizing Grant Funds and Approving the South Coast AQMD's Participation
in the FY 2019-20 (Year 22) Carl Moyer Program State Reserve Program**

WHEREAS, under Health & Safety Code § 40400 *et seq.*, the South Coast Air Quality Management District (South Coast AQMD) is the local agency with the primary responsibility for the development, implementation, monitoring and enforcement of air pollution control strategies, clean fuels programs and motor vehicle use reduction measures; and

WHEREAS, the South Coast AQMD is authorized by Health & Safety Code §§ 40402, 40440, and 40448.5 as well as the Carl Moyer Memorial Air Quality Standards Attainment Program (§§ 44275, *et seq.*) to implement programs to reduce transportation emissions, including programs to encourage the use of alternative fuels and low-emission vehicles; to develop and implement other strategies and measures to reduce air contaminants and achieve the state and federal air quality standards; and

WHEREAS, the Governing Board has adopted several programs to reduce emissions from on-road and off-road vehicles, as well as emissions from other equipment, including the Carl Moyer Program; and

WHEREAS, the South Coast AQMD is designated as an extreme non-attainment area for ozone and as such is required to utilize all feasible measures to meet national ambient air quality standards.

BE IT FURTHER RESOLVED that the Governing Board approves the South Coast AQMD's participation in the State Reserve portion of the FY 2019-20 (Year 22) Carl Moyer Program, and the acceptance of funds allocated and awarded to the South Coast AQMD for eligible projects and program administration; and

THEREFORE, BE IT RESOLVED that the Governing Board, in regular session assembled on August 7, 2020, does hereby accept the FY 2019-20 (Year 22) Carl Moyer Program State Reserve grant award (#G19-MO47) and recognize up to \$4.3 million from CARB in the VIP Program Fund (59) for eligible on-road projects under the On-Road Heavy-Duty Vehicle Voucher Incentive Program (also known as VIP).

BE IT FURTHER RESOLVED that the Executive Officer is authorized and directed to take all steps necessary to carry out this Resolution.

Date

Faye Thomas, Clerk of the Boards

Agenda Item #1

Vicki White

Adopt Resolution Recognizing Funds for FY 2019-20
Carl Moyer State Reserve Program and
Redistribute Funding Sources for Incentive Projects
to Facilitate Timely Implementation

Background

- Pursuant to §44286(d) of the Health & Safety Code, CARB reserves 10% of Carl Moyer Program funds each year for eligible projects (State Reserve)
- A total of \$9.36 million in State Reserve funds are available for FY 2019-20
- In April 2020, CARB allocated 45.6% of the State Reserve funds to South Coast AQMD
- CARB also specified the funds for the On-Road Heavy-Duty Vehicle Voucher Incentive Program (VIP)
- A Board Resolution recognizing these funds is required by CARB prior to disbursing the funds



Background (cont'd)

- Since November 2019, the Board has periodically approved awards for incentive projects using a variety of funding sources, including but not limited to Community Air Protection Incentives, Carl Moyer, SOON Program, Proposition 1B–Goods Movement, State Reserve and FARMER
- A subset of these projects typically experience delays in contracting, equipment deliveries, purchasing and cancellations due to various issues, such as financial constraints
- Due to COVID-19 restrictions, staff anticipates additional delays may forestall the liquidation of funds per mandated grant timelines



Proposal

- Adopt Resolution to recognize FY 2019-20 Carl Moyer State Reserve funds for truck replacements eligible under the VIP
- Allow the Executive Officer to redistribute the source of funds within and/or between the Carl Moyer Program Fund (32), including SB 1107, SOON, State Reserve, FARMER and associated interest funds, Carl Moyer AB 923 match funds (Fund 80) and the Community Air Protection funds (Fund 77), to the extent the redistribution would not conflict with any applicable guideline, requirement or direction from CARB



Recommended Actions

- Adopt the attached Resolution recognizing up to \$4.3 million in FY 2019-20 Carl Moyer State Reserve funds from CARB
- Authorize the Executive Officer to redistribute the source of funds within and/or between various incentive programs, as needed, to the extent that such actions are not in conflict with any applicable guideline, requirement or direction from CARB

Technology Committee Agenda #2

BOARD MEETING DATE: August 7, 2020

AGENDA NO.

PROPOSAL: Issue Program Announcement for Zero-Emission Class 8 Freight and Port Drayage Trucks Eligible Under Statewide Volkswagen Environmental Mitigation Trust Program and Execute Contracts for Selected Eligible Projects

SYNOPSIS: In November 2018 and March 2020, the Board recognized revenue up to \$165 million to administer and implement two of the five project funding categories for the Volkswagen (VW) Environmental Mitigation Trust Program. For the category of Zero-Emission Class 8 Freight and Port Drayage Trucks, the first installment of VW project funds totaling \$27 million is available for eligible vehicles selected through a first-come, first-served solicitation. This action is to issue a statewide Program Announcement for the VW Zero-Emission Class 8 Freight and Port Drayage Trucks category totaling \$27 million for eligible vehicles selected on a first-come, first-served basis. This action is to also authorize the Executive Officer to enter into contracts for eligible projects selected through this solicitation.

COMMITTEE: Technology, June 19, 2020; Recommended for Approval

RECOMMENDED ACTIONS:

1. Issue Program Announcement #PA2021-01 to solicit projects for the first installment of program funds totaling \$27 million for the Zero-Emission Class 8 Freight and Port Drayage Trucks category eligible under the statewide VW Environmental Mitigation Trust Program; and
2. Authorize the Executive Officer to enter into contracts for eligible projects selected under the first-come, first-served solicitation for the VW Zero-Emission Class 8 Freight and Port Drayage Trucks category.

Wayne Nasti
Executive Officer

Background

In November 2018 and March 2020, the Board recognized revenue up to \$165 million to administer and implement two of the five project funding categories for the Volkswagen (VW) Environmental Mitigation Trust Program. The two funding categories that South Coast AQMD will administer are the Combustion Freight and Marine Projects and Zero-Emission Class 8 Freight and Port Drayage Trucks. The other three funding categories are being administered and implemented by two other air districts, San Joaquin Valley APCD and Bay Area AQMD. San Joaquin Valley APCD is administering the Zero-Emission Transit, School and Shuttle Buses. Bay Area AQMD is administering the Zero-Emission Freight and Marine Projects and Light Duty Zero-Emission Vehicle Infrastructure. Staff has been working in collaboration with CARB, San Joaquin Valley APCD and Bay Area AQMD to develop an administrative budget, project agreements, framework for the VW Program, program specific webpages, and an online grant management system for South Coast AQMD's two funding categories that includes a public user interface for application submittal and related communications, as well as extensive outreach materials and efforts statewide.

Several statewide solicitations will be released to implement the VW Environmental Mitigation Trust Program. On October 21, 2019, San Joaquin Valley APCD released its first solicitation for Zero-Emission Transit, School, and Shuttle Buses, offering \$65 million in funding for the first of two installments. Currently, the school bus portion of San Joaquin's solicitation is closed due to oversubscription. On December 6, 2019, the South Coast AQMD released the first of two \$30 million installments for the Combustion Freight and Marine Projects Category; that solicitation closed on March 4, 2020. On February 20, 2020, the Bay Area AQMD, in conjunction with the CEC, issued its solicitation for Light Duty Zero-Emission Infrastructure for the hydrogen category, offering a total of \$5 million in funding. Bay Area AQMD's other funding categories are anticipated to open late 2020.

Proposal

This action is to issue Program Announcement (PA) #PA2021-01 for the Zero-Emission Class 8 Freight and Port Drayage Trucks category of the VW Environmental Mitigation Trust Program. The amount of funding available for eligible projects in this first of two installments is \$27 million. This action is to also authorize the Executive Officer to enter into contracts for eligible projects selected under the first-come, first-served solicitation for the VW Zero-Emission Class 8 Freight and Port Drayage Trucks category.

The PA will solicit applications from vehicle owners for the replacement of older, in-use on-road Class 8 freight trucks, waste haulers, dump trucks and concrete mixers with zero emission commercially available technologies. This program requires the scrapping of the older vehicle that is being replaced. Applicants will be required to

submit applications for the Zero-Emission Class 8 Freight and Port Drayage Trucks category through an online application portal. Eligible projects in this category will be selected on a first-come, first-served basis, with the solicitation closing once all funds have been allocated.

Outreach

The PA will be provided to San Joaquin Valley APCD, Bay Area AQMD, CARB and CAPCOA to assist with statewide outreach. The PA will also be posted on each of the VW websites administered by the South Coast AQMD, San Joaquin Valley APCD, Bay Area AQMD and CARB. South Coast AQMD will release a press release notifying interested stakeholders of the opening of the PA for the Zero-Emission Class 8 Freight and Port Drayage Trucks category. South Coast AQMD will also announce a public webinar session to assist applicants statewide and will conduct outreach on a statewide basis.

Funding Distribution

The VW Trust is a component of partial settlements with VW and is enumerated in Appendix D of the Consent Decree ordered by the U.S. District Court for the Northern District of California. In May 2018, as required by the Consent Decree, CARB approved the Beneficiary Mitigation Plan, which includes a goal that at least 50 percent of program funds be expended on projects that will reduce NO_x emissions in disproportionately impacted and low-income communities. The Plan provides the ability for each of the three air districts to track this on a cumulative basis. Staff will utilize the latest version of CalEnviroScreen for identification of disadvantaged and low-income communities.

Benefits to South Coast AQMD

The NO_x emission reductions that will be achieved from replacing older, high-polluting vehicles and equipment with cleaner technologies within the South Coast AQMD and statewide are intended to fully mitigate the diesel NO_x emissions caused by VW's illegal actions. CARB estimates that 10,000 tons of NO_x emission reductions will be achieved over the 10-year life of the VW Mitigation Program. The projects funded through this program will also reduce emissions of other criteria air pollutants, toxic air contaminants and greenhouse gases. This program will also accelerate the deployment of new commercially available zero emission trucks and near-zero emissions heavy-duty natural gas trucks, which is a key strategy in the 2016 AQMP for reducing NO_x emissions.

Resource Impacts

Revenue up to \$165 million was previously recognized into the VW Mitigation Special Revenue Fund (79) to administer and implement the two project funding categories being administered by the South Coast AQMD. There are sufficient funds in the VW

Mitigation Special Revenue Fund (79) for this PA, which allocates \$27 million towards eligible projects. Reimbursement of administrative costs will not exceed ten percent (or \$15 million) of revenue received.

Attachments

Attachment A: Volkswagen Environmental Mitigation Trust Zero-Emission Class 8 Freight and Port Drayage Trucks Program Announcement #PA2021-01

Attachment B: Business Certification Forms



**2020
VOLKSWAGEN ENVIRONMENTAL MITIGATION TRUST
ZERO-EMISION CLASS 8 FREIGHT AND PORT DRAYAGE TRUCKS**

STATEWIDE PROGRAM ANNOUCEMENT (PA)

#PA2021-01

Funding is now available from the Volkswagen Environmental Mitigation Trust for the Zero-Emission Class 8 Freight and Port Drayage Trucks category (hereafter “VW Mitigation – ZE Class 8 Trucks Category”). This program will provide incentive funds on a first-come first-served basis to truck owners operating in the State of California to replace Class 8 freight trucks, including drayage trucks, waste haulers, dump trucks, and concrete mixers, with zero-emission technologies approved by the California Air Resources Board (CARB) and available for commercial use.

In the preparation of this Program Announcement, the words “Applicant,” “Contractor,” and “Consultant” are used interchangeably.

SECTION 1 – OVERVIEW

PURPOSE

The purpose of the Program Announcement (PA) is to solicit project applications for the first installment of funds for the VW Mitigation – ZE Class 8 Trucks Category. **The budget for this PA is \$27 million from the Volkswagen Environmental Mitigation Trust (VW Trust) and is available to fleets operating throughout the State of California.**

INTRODUCTION

The VW Trust was established as part of a settlement with Volkswagen (VW) for their role in utilizing illegal defeat devices in certain 2.0- and 3.0-liter vehicles that resulted in excess NOx emissions. The VW Mitigation program is intended to fully mitigate the excess NOx emissions caused by these VW vehicles.

CARB is the designated lead agency acting on the State’s behalf as beneficiary to implement California’s allocation of the mitigation funds. On May 25, 2018, CARB approved the Beneficiary Mitigation Plan (BMP) for California which contains the eligible mitigation actions (EMA) or project funding categories that are eligible for funding from the states \$423 million allocation of the VW Trust. The BMP designated five project categories for funding that will be administered and implemented as a statewide program by three local air districts, for which the South Coast AQMD is the statewide project administrator for two of the five project categories including: Combustion Freight and Marine Projects, and Zero-Emission Class 8 Freight and Port Drayage Trucks. For the purposes of this PA, South Coast AQMD will hereafter be referred to as the Project Administrator.

This PA is for the first installment of the VW Mitigation funds available for the ZE Class 8 Trucks Category, which includes a total of \$27 million. All applications will be evaluated on a first-come, first-served basis. This PA was prepared based on the latest version of the BMP, which is available online at:



<https://ww2.arb.ca.gov/resources/documents/californias-beneficiary-mitigation-plan>. The FAQs can be found at: <http://www.aqmd.gov/vw>.

This PA will identify key eligibility criteria to qualify for funding under this solicitation for the VW Mitigation – ZE Class 8 Trucks Category. The detailed requirements for projects can be found in the BMP.

Applicants are encouraged to review this PA for general eligibility information and funding limitations that may apply to certain types of projects.

The requirements and project eligibility criteria set forth in this PA and the BMP may be more stringent than those within the Consent Decree. As such, the more stringent requirements and project eligibility criteria will prevail.

GENERAL PROGRAM INFORMATION

- All applications must be submitted through the web-based application portal. No paper applications will be accepted.
- The applicant must be the legal owner of the truck. The applicant may use a third party to assist in completing the online application; however, the application must be signed by the applicant, and no contracts will be executed with a third party.
- Applicants must be able to demonstrate the ability to refuel or recharge trucks funded with Program funds.
- Applications may contain funding requests for multiple trucks; however, fleets will be limited to no more than five percent of the available program funds for this solicitation (i.e., up to \$1.35 million) per Entity (Applicant), as determined by Tax ID. If insufficient applications are received to expend the available VW Mitigation funds for this PA, the Project Administrator reserves the right to issue additional contracts beyond the stated limit.
- Funding through this PA will be limited to entities that have been legally operating the subject trucks for at least 75 percent of the time within the State of California for at least the previous one year.
- Out-of-state International Registration Plan (IRP) registration may be allowed if the registration documentation shows that the truck was operated for at least 75 percent of the time within California.
- Solicitation is first-come, first-served. The Project Administrator will evaluate and contract with complete and qualifying applications meeting all applicable project requirements including eligibility, recordkeeping, and reporting, in the order the applications are received.
- It is expected that multiple awards will be granted under this PA.
- All proposals will be evaluated based on criteria set forth in this PA. Furthermore, the Project Administrator reserves the right to adjust awards based on the subsequent verification of information received.



IMPORTANT PROGRAM INFORMATION

- Applicants must ensure that the truck to be purchased is compliant with all applicable federal, state, and local air quality rules and regulations and that it will maintain compliance for the full contract term.
- Any associated tax obligation from receiving grant funds from the Project Administrator is the responsibility of the applicant.
- Pre, post, and destruction inspection of trucks approved for funding will be conducted by the Project Administrator or their designee.
- Applicants may not receive funds exceeding actual project costs.
- Applicants shall not apply for funding for the same truck with any other funding source which claims the same emission reductions.
- All projects must be operational by the date specified in their contract.

FUNDING CATEGORIES & ELIGIBILITY

Below is the specific project category identified for funding under this PA:

- Class 8 freight trucks including drayage trucks, waste haulers, dump trucks, and concrete mixers

General Eligibility Requirements

- Projects must implement zero-emission technologies certified/approved by CARB.
- Trucks must be commercially available and ready for use.
- Trucks purchased must be part of a service and maintenance network.
- Trucks must be in service within 24 months of contract execution, unless otherwise approved by the Project Administrator.
- Applicants must demonstrate that they are in full compliance with all applicable state, federal, and local rules and regulations.
- The existing truck being replaced must be scrapped by a CA DMV-licensed dismantler.
- The replacement truck must be a new truck.
- The replacement (new) truck funded through this program must be operated in California for a minimum of three years.

Class 8 Freight Trucks

Below are the key eligibility requirements for on-road vehicle projects:

- Truck Type:
 - Class 8: freight trucks including drayage trucks, waste haulers, dump trucks, and concrete mixers
- Project Type:
 - Replacement only
- Old Truck/Engine:

- Internal combustion engine with a 1992 to 2012 engine model year that is currently in compliance with and will remain in compliance with all state, federal, and local rules and regulations until time of replacement.
- New Truck/Motor:
 - Zero-Emission Technology (certified/approved by CARB and commercially available) with the motor model year in which the replacement occurs or one motor model year prior:
 - Battery Electric
 - Hydrogen Fuel Cell
- Compliance
 - See *Regulatory Compliance* section below.

REGULATORY COMPLIANCE

All applicants must be fully compliant with applicable rules and regulations to be eligible for consideration for VW Mitigation – ZE Class 8 Trucks Category funding. Reference is made to CARB’s rule webpages that provide detailed information on compliance with these regulations. Please see *Section VI: Staff Contacts and Additional Resources* below for links to these webpages.

PROJECT REQUIREMENTS

The following application/supplemental documentation items will be needed to determine project eligibility:

- Applicant must demonstrate compliance with applicable CARB rules or regulations, which may include, but is not limited to:
 - TRUCRS Fleet Compliance for each project application
 - Drayage Truck Registry Compliance for each project application
 - Compliance with the Solid Waste Collection Regulation for each project application
 - Compliance with Fleet Rule for Public Agencies and Utilities
- Applicants must provide the CARB Executive Order for the old and new truck
- Applicant must provide a copy of the vehicle’s title (must be a clean title with no active lienholders)
- Applicant must provide a vendor price quote for the new truck dated within 90 days of application submittal, or for government entities provide documentation for a bid process which includes the cost of each individual replacement purchase
- Applicant must provide twelve months of vehicle registration documentation
- Applicant must provide twelve months of truck insurance documentation, or for government agencies who are self-insured, documentation certifying self-insurance.
- Applicant must provide twelve consecutive months of usage records (e.g. mileage records, maintenance reports or other documentation)
- Applicants must provide photos of existing vehicle/engine including:



- Entire front of truck
- Entire side of truck
- Truck license plate number and unit number/identifier (if any)
- Vehicle Identification Number (VIN)
- Gross Vehicle Weight Rating (GVWR) label
- Engine tag (with engine model year, serial number, engine family name, and horsepower rating clearly identified)

MAXIMUM ELIGIBLE FUNDING

The maximum eligible funding caps are summarized below in Table 1: ZE Class 8 Trucks Category Funding & Eligibility.

Table 1: ZE Class 8 Trucks Category Funding & Eligibility

Baseline Equipment	Baseline Technology	Replacement Technology	Project Type	Ownership Category	Maximum Percentage (%) of Funding (of cost)	Maximum Funding Up To
Class 8 Freight Trucks (including drayage trucks, waste haulers, dump trucks, and concrete mixers)*	Engine Model Years 1992 to 2012**	Zero-Emission: Battery-Electric or Hydrogen Fuel Cell	Replacement	Non-Government	75%	\$200,000
				Government	100%	

*Class 8 – Gross Vehicle Weight Rating (GVWR) greater than 33,000 lbs.

**Must comply with all applicable rules and regulations until time of replacement

REPORTING AND MONITORING

All participants in the VW Mitigation – ZE Class 8 Trucks Category will be required to keep appropriate records during the full contract period, which will include a minimum of three years during the contract term, plus three years after the contract term. All equipment must operate in the state of California at least 75 percent of the time for the full contract term. The records will contain the following, at a minimum, as applicable:

- DMV Registration Records
- Insurance Certificate(s) or documentation certifying self-insurance for government agencies that are self-insured
- Records of Annual Usage – including Odometer Readings
- Operational and maintenance issues encountered and how they were resolved



- Self-certification of where the truck was operated
- Self-certification of compliance with labor laws

Contractors will be required to submit annual reports containing the above information to the Project Administrator for the three-year term of the contract. Records must be retained and updated throughout the contract term plus three years and made available for the Project Administrator, CARB, or their designee for review upon request.

PROGRAM ADMINISTRATION

The VW Mitigation – ZE Class 8 Trucks Category will be administered by the South Coast AQMD through the Technology Advancement Office.

PROJECT EVALUATION/AWARDS

The Project Administrator will evaluate all submitted project applications for completeness and eligibility, and select projects on a first-come, first-served basis. Projects will also be evaluated to determine if the project qualifies as benefiting a disadvantaged or low-income community.

DEFINITIONS

1. Beneficiary Mitigation Plan (BMP)
Document that contains the eligible mitigation actions (projects) for California that the California Air Resources Board (CARB or Board) will fund from the State's \$423 million allocation of the Environmental Mitigation Trust.
2. CARB Certified
Vehicle or engine that has been certified and issued an Executive Order by CARB.
3. Class 8 Local Freight, and Port Drayage Trucks (Eligible Large Trucks)
Trucks with a Gross Vehicle Weight Rating (GVWR) greater than 33,000 lbs. used for port drayage and/or freight/cargo delivery (including waste haulers, dump trucks, concrete mixers).
4. Concrete Mixer (or cement mixer)
On-road vehicle used for transporting and mixing concrete.
5. Consent Decree
The First Partial Consent Decree in 'IN RE: Volkswagen "Clean Diesel" Marketing, Sales Practices, and Products Liability Litigation', MDL No. 2672 CRB (JSC) (Dkt. No. 2103-1), and the Second Partial Consent Decree in that case (Dkt. No. 3228-1).

6. Contract Term

Contract term is the duration for which the contract is valid. It encompasses both the project completion and project implementation periods.

- (i) Project completion period is the first part of the Contract term starting from the date of Contract execution by both parties to the date the project post-inspection confirms that the project has become operational, and the destruction inspection confirms the old vehicle/engine has been destroyed.
- (ii) Project implementation period is the second part of the Contract term and equals the project life.

7. Drayage Trucks

Trucks hauling cargo to and from ports and intermodal rail yards.

8. Dump Truck

On-road vehicle used for the transportation of bulk material and that has a body which tilts to dump its contents.

9. Eligible Mitigation Action

Any of the actions listed in Appendix D-2 of the Environmental Mitigation Trust.

10. Environmental Mitigation Trust

The Trust funded with Mitigation Trust Payments according to the terms of the First Partial Consent Decree and the Second Partial Consent Decree (jointly, the "Consent Decree").

11. Freight Truck

Trucks, including commercial trucks, used to deliver cargo and freight (e.g., courier services, delivery trucks, box trucks moving freight, waste haulers, dump trucks, concrete mixers).

12. Garbage-packer vehicle

A vehicle specially designed to collect and compact residential or commercial solid waste on the vehicle for purposes of transportation and disposal. These include but are not limited to vehicles commonly referred to as front loader, rear loader, and automated and semi-automated side loaders.

13. Garbage-roll off vehicle

A vehicle that is designed to drop off and pick up open boxes or other containers that are commonly used to collect residential and commercial solid waste at a site.

14. Government

State or local government agency (including a school district, municipality, city, county, special district, transit district, joint powers authority, or port authority, owning fleets purchased with government funds), and a tribal government or native village. The term "State" means the several States, the District of Columbia, and the Commonwealth of Puerto Rico.

15. Gross Vehicle Weight Rating (GVWR)

The maximum weight of the vehicle, as specified by the manufacturer. GVWR includes total vehicle weight plus fluids, passengers, and cargo.

Class 1: < 6,000 lb.

Class 2: 6,001-10,000 lb.

Class 3: 10,001-14,000 lb.

Class 4: 14,001-16,000 lb.

Class 5: 16,001-19,500 lb.

Class 6: 19,501-26,000 lb.

Class 7: 26,001-33,000 lb.

Class 8: > 33,000 lb.

16. Incremental Cost

Incremental cost is the percent of actual cost that is eligible for funding.

17. Intermodal Rail Yard

A rail facility in which cargo is transferred from drayage truck to train or vice-versa.

18. Mitigation Action

Eligible Project and is any of the actions listed in Appendix D-2 of the Environmental Mitigation Trust.

19. New Vehicle

A vehicle constructed entirely from new parts that has never been the subject of a retail sale, or registered with the department, or registered with the appropriate agency or authority of any other state, District of Columbia, territory or possession of the United States, or foreign state, province, or country.

20. Project Life

Project life is the period of the contract term, during which the repowered or replacement vehicle/equipment/engine is operated, and the contractor must report annual usage. It is used to calculate the cost effectiveness and funding amount for a particular project.

21. Replacement Project

Replacement project is the purchase of a new vehicle/equipment/engine to replace an existing vehicle/equipment/engine.

22. Residential or commercial solid waste

All putrescible and non-putrescible solid, and semisolid wastes, including garbage, trash, refuse, rubbish, ashes, yard waste, recyclable materials, industrial wastes, demolition and construction wastes, abandoned vehicles and parts thereof, discarded home and industrial appliances, manure, vegetable or animal solid and semisolid wastes, and other discarded solid and semisolid wastes originating from single-family or multiple family dwellings, stores, offices, and other

commercial sources, and construction and demolition projects in residential and commercial zones, not including hazardous, radioactive, or medical waste.

23. Scrapped

To render inoperable and available for recycle, and, at a minimum, to specifically cut a three-inch hole in the engine block for all engines. If any eligible vehicle will be replaced as part of an eligible project, scrapped also includes the disabling of the chassis by cutting the vehicle's frame rails completely in half.

24. Tier 0, 1, 2, 3, and 4

Refers to corresponding U.S. EPA engine emission classifications for nonroad, locomotive, and marine engines.

25. Waste Hauler

An on-road vehicle that is a "garbage-packer vehicle" or a "garbage-roll off vehicle".



ALL APPLICATIONS MUST BE RECEIVED ELECTRONICALLY THROUGH THE ONLINE WEB-BASED APPLICATION PORTAL UNTIL THERE IS NO MORE FUNDING AVAILABLE FOR THE FIRST SOLICITATION OF THE ZERO-EMISSION CLASS 8 FREIGHT AND PORT DRAYAGE TRUCKS CATEGORY

Only electronic submissions are allowed using the new Grant Management System (GMS) available upon this solicitation opening at: www.aqmd.gov/vw.

Paper, faxed or emailed proposals will not be accepted. Any correction or resubmission done by the applicant will not extend the submittal due date.

The Project Administrator may issue subsequent solicitations if insufficient applications are received in the initial solicitation.

All information submitted in applications is a public record and subject to Public Records Act requests.

STATEMENT OF COMPLIANCE

Government Code Section 12990 and California Administrative Code, Title II, Division 4, Chapter 5, require employers to agree not to unlawfully discriminate against any employee or applicant because of race, religion, color, national origin, ancestry, physical handicap, medical condition, marital status, sex, or age. A statement of compliance with this clause will be included in the contract with the Program Administrator.

COMPLIANCE WITH LABOR LAWS

If an application is deemed eligible, the applicant will be required to provide any labor violations that have occurred within the last three years to be further considered for an award. If awarded, the contractor will be required to notify the Program Administrator in writing if they have been found by a court or federal or state agency to have violated labor laws. The contractor will complete a yearly certification in which they will either state that they have not been found by a court or federal or state agency to have violated labor laws or, if such violations have been found, the contractor will give the Program Administrator details about those violations in the certification. If the contractor has previously provided that information to the Program Administrator, they will be required to reattach that previous notification to the certification and provide any additional details about those violations that have not previously been provided. The contractor's yearly certification will be due at the same time as the annual progress reports. The Program Administrator reserves the right to terminate the contract with a contractor that has been found to have violated labor laws, and the contractor may be required to return any and all contract funds, as determined by the Program Administrator. The contractor will also ensure that these requirements are included in all subcontracts.

SECTION II: WORK STATEMENT/DELIVERABLES

All applicants that are selected for funding awards must complete the *Work Statement and Deliverables* described below as part of the contracting process. Development of these materials for the initial



application is NOT required; however, applicants must digitally sign the application indicating their understanding of the requirements for submittal of additional project information to finalize a contract and that all trucks must be in operation no later than the date specified within the contract.

WORK STATEMENT

The scope of work involves a series of tasks and deliverables that demonstrate compliance with the requirements of the VW Mitigation – ZE Class 8 Trucks Category as administered by CARB and the Program Administrator.

At a minimum, any proposed project must meet the following criteria:

- Emission reductions must be surplus to any existing regulatory requirements.
- The old and new truck must meet all eligibility requirements.
- Project trucks must operate in-service for the full contract term.
- All trucks must be in operation by the in-service date specified in the contract.
- Appropriate annual records must be kept and reported to the Project Administrator during the contract term of three years (e.g., odometer readings) and must be retained for three additional years after the term of the contract.
- All applicants must be fully compliant with applicable rules and regulations to be eligible for consideration for VW Mitigation – ZE Class 8 Trucks Category funding.
- If requested, a contractor must provide a financial statement and bank reference, or other evidence of financial ability to fulfill contract requirements.

DELIVERABLES

The contract will describe how the project will be monitored and what type of information will be included in the annual reports. At a minimum, the Project Administrator expects to receive an annual report throughout the contract term, which provides:

- DMV Registration;
- Insurance Certificate(s) or documentation certifying self-insurance for government agencies that are self-insured;
- Records of Annual Usage – including Odometer Readings
- Operational and maintenance issues encountered and how they were resolved;
- Self-certification of where the truck was operated; and
- Self-certification of compliance with labor laws.

The Project Administrator reserves the right to verify the information provided.

SECTION III: PROPOSAL SUBMITTAL REQUIREMENTS

Applicants must complete the appropriate application forms committing that the information requested in *Section II, Work Statement/Deliverables*, will be submitted if the Applicant's project is selected for funding.



In addition, *Conflict of Interest* and *Project Cost* information, as described below, must also be submitted with the application. It is the responsibility of the applicant to ensure that all information submitted is accurate and complete.

CONFLICT OF INTEREST

Applicant must address any potential conflicts of interest with other clients affected by actions performed by the firm on behalf of the Program Administrator. Although the applicant will not be automatically disqualified by reason of work performed for such firms, the Program Administrator reserves the right to consider the nature and extent of such work in evaluating the proposal. Conflicts of interest will be screened on a case-by-case basis by the General Counsel's Office for the Program Administrator. Conflict of interest provisions of the state law, including the Political Reform Act, may apply to work performed pursuant to this contract. Please discuss potential conflicts of interest on the application form entitled "Campaign Contributions Disclosure".

PROJECT COST

Applicants must provide cost information that specifies the amount of funding requested and the basis for that request by providing a vendor price quote as part of the application. Applicants need to inform the vendor of the time frame of the award process so that they can accurately quote costs based on the anticipated order/purchase date. Quotes must be dated within 90 days of the application submittal date. For government agencies obtaining trucks through a bid process, bid process documentation must be provided indicating cost of each individual truck to be purchased.

Note that any orders placed or payments made in advance of an executed contract with the Project Administrator are done at the risk of the applicant. The Project Administrator has no obligation to fund the project until a contract is fully executed by both parties.

All project costs must be clearly indicated in the application. In addition, applicants must identify any sources of co-funding and the amount of co-funding from each source in the application. Funding from the Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP) may not be used as co-funding with VW Mitigation funds. In addition, co-funding may not be from any state funding sources or funding sources where any portion of NOx reductions could be double-counted, including but not limited to the Carl Moyer Program, AB 923 or AB 617.

PROPOSAL SUBMISSION

All proposals must be submitted according to specifications set forth herein.

Application Forms

All applications must be submitted through the web-based application portal. Applicants may submit multiple units per single application. An application checklist is provided as an attachment (Attachment A) to this PA to assist applicants in completing their applications. Required documents (e.g., pictures of existing vehicle, usage records, Disadvantaged Business Certification, etc.) requested in the application and discussed in this PA need to be uploaded prior to submittal. Paper, faxed, or emailed proposals will not be accepted.



Certifications and Representations (Attachment B)

The online application will contain seven business forms of which six must be completed and submitted with the online application.

- Business Information Request
- Disadvantaged Business Certification
- W-9 Request for Taxpayer Identification Number and Certification
- Form 590 Withholding Exemption Certificate
- Certification of Debarment, Suspension, and Other Responsibility Matters
- Campaign Contribution Disclosure
- Direct Deposit Form (not required for application submittal)

Methods of Delivery

The applicant must submit their application using the web-based application portal or Grant Management System (GMS), available at: www.aqmd.gov/vw. This online system allows applicants to submit their application electronically to the Project Administrator during the solicitation period. All required documents must be uploaded to the online system. First-time users must register as a new user.

Grounds for Rejection

An application may be immediately rejected if:

- It is not prepared in the format described.
- It is not signed by the truck owner.
- Does not include required documents requested in the application or discussed in this PA.
- Does not meet eligibility requirements as stated in this PA.

Disposition of Applications

The Project Administrator reserves the right to reject any or all applications based on the above criteria. All responses become the property of the Project Administrator.

Modification or Withdrawal

Once submitted, applications cannot be altered without the prior written consent of the Project Administrator.

Schedule

Open Solicitation:	Friday August 7, 2020
All Applications Due by:	Closes When All Funds Are Expended
Evaluation Period:	Ongoing as applications are submitted
Contract Execution:	Beginning November, 2020



SECTION IV: PROPOSAL EVALUATION/CONTRACTOR SELECTION CRITERIA

The Project Administrator will evaluate all submitted project applications for completeness and eligibility. Funding will be awarded for each eligible truck until all funds have been awarded.

SECTION V: PAYMENT TERMS

For all projects, payment will be made upon the submittal of a complete and valid invoice for the reimbursement of costs paid by the Contractor for the new truck, and verification that the truck meets the program requirements and was placed into regular operating service. Proof of destruction of the old truck is also required prior to payment of VW Mitigation funds. The Project Administrator will pay a percentage of the invoice as described in this PA or the contract maximum amount, whichever is less.

SECTION VI: STAFF CONTACTS AND ADDITIONAL RESOURCES

For additional information, the Project Administrator has posted responses to Frequently Asked Questions (FAQs), which can be found at the Project Administrator’s VW website at: <http://www.aqmd.gov/vw/>.

If you have any additional questions regarding the content or intent of this PA, procedural matters, application support, etc., please contact the Project Administrator team members assigned to the VW Mitigation – ZE Class 8 Trucks Category below:

Table 2: VW Mitigation - ZE Class 8 Trucks Category Staff Contacts

Contact Name	Phone Number	Email
VW Funds	(833) 894-7267	vwfunds@aqmd.gov
Adan Velasco	(909) 396-3246	avelasco@aqmd.gov
Alicia Martinez	(909) 396-3165	amartinez@aqmd.gov
Ping Gui	(909) 396-3187	pgui@aqmd.gov

WEBSITE LINKS

Truck and Bus Regulation at: <http://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm>

Drayage Truck Regulation at: <https://www.arb.ca.gov/msprog/onroad/porttruck/porttruck.htm>

Public/Utility Fleet Rule at: <http://www.arb.ca.gov/msprog/publicfleets/publicfleets.htm>

Solid Waste Collection Vehicle Regulation at: <https://ww3.arb.ca.gov/msprog/swcv/swcv.htm>

SCE Charge Ready Transport Program at: <https://www.sce.com/business/electric-cars/charge-ready-transport>

SDG&E MD/HD EV Charging Infrastructure Program at: <https://www.sdge.com/mediumheavy-duty-mdhd-ev-charging-infrastructure-program>

PG&E EV Fleet Program at: https://www.pge.com/en_US/large-business/solar-and-vehicles/clean-vehicles/ev-fleet-program/ev-fleet-program.page

ATTACHMENT A

VW Mitigation Program – Zero-Emission Class 8 Freight and Port Drayage Trucks

Application Checklist

1.		Truck Identifier (the name used by applicant to identify the unit)
2.		Truck Information: <ul style="list-style-type: none"> • Class (only Class 8 is eligible) • Vocation (Concrete Mixer, Drayage Truck, Dump Truck, Freight Truck, or Waste Hauler)
3.		Truck domiciled address (physical location address of the vehicle)
4.		Truck ownership information
5.		Truck Activity Information: <ul style="list-style-type: none"> • Odometer Readings: Documenting mileage for the previous 12 months • Odometer Readings: Current
6.		Existing Truck Information: <ul style="list-style-type: none"> • Vehicle Identification Number (VIN) • License Plate Number • Gross Vehicle Weight Rating (GVWR) • Truck Model Year
7.		Existing Engine Information: <ul style="list-style-type: none"> • Fuel type • Engine Family Name (EFN) • Engine Executive Order Number (EO) • Engine Model Year • Engine Make, Model, Serial, Horsepower (HP)
8.		Replacement (New) Truck Information: <ul style="list-style-type: none"> • Gross Vehicle Weight Rating (GVWR) • Truck Make, Model, Model Year
9.		Replacement (New) Engine Motor Information: <ul style="list-style-type: none"> • Zero-emission type • Vehicle Family Name (VFN) • Executive Order Number (EO), or verification of CARB-approval • Model Year
10.		Total Cost: Replacement: cost of truck and associated taxes

VW Mitigation Program – Zero-Emission Class 8 Freight and Port Drayage Trucks

Supplemental Documentation Checklist

1.		<p>Photos for Existing Truck:</p> <ul style="list-style-type: none"> • Front of truck • Full side view of truck • Truck License Plate Number • VIN and GVWR tag(s) • Engine tag (with Make, Model, Year, Serial Number, Horse Power, and Family Name) • Current Odometer reading
2.		<p>Copy of compliance documentation (in its entirety) indicating that the existing truck and fleet is in compliance with applicable rules and regulations which may include, but not limited to, the following:</p> <ul style="list-style-type: none"> • Compliance Certificate • Picture of Compliance Sticker • Compliance Status printout • Truck Information printout • Company Information printout
3.		Copy of truck’s clean title (no lienholders listed)
4.		12 months of vehicle registration documentation
5.		12 months of insurance documentation
6.		<p>Copy of Executive Order for:</p> <ul style="list-style-type: none"> • Existing engine • Replacement (new) engine
7.		12 consecutive months of usage records (odometer readings with date of readings required)
8.		<p>Vendor Quote (dated within 90 days of application) and must include:</p> <ul style="list-style-type: none"> • Quoted date • Total cost (including taxes and state fees) • Warranty information • Government Agencies with bid processes only – bid documentation with cost breakdown of each individual unit

ATTACHMENT B



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

Business Information Request

Dear SCAQMD Contractor/Supplier:

South Coast Air Quality Management District (SCAQMD) is committed to ensuring that our contractor/supplier records are current and accurate. If your firm is selected for award of a purchase order or contract, it is imperative that the information requested herein be supplied in a timely manner to facilitate payment of invoices. In order to process your payments, we need the enclosed information regarding your account. **Please review and complete the information identified on the following pages, remember to sign all documents for our files, and return them as soon as possible to the address below:**

**Attention: Accounts Payable, Accounting Department
South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, CA 91765-4178**

If you do not return this information, we will not be able to establish you as a vendor. This will delay any payments and would still necessitate your submittal of the enclosed information to our Accounting department before payment could be initiated. Completion of this document and enclosed forms would ensure that your payments are processed timely and accurately.

If you have any questions or need assistance in completing this information, please contact Accounting at (909) 396-3777. We appreciate your cooperation in completing this necessary information.

Sincerely,

Sujata Jain
Deputy Executive Officer
Finance

DH:tm

Enclosures: Business Information Request
Disadvantaged Business Certification
W-9
Form 590 Withholding Exemption Certificate
Federal Contract Debarment Certification
Campaign Contributions Disclosure
Direct Deposit Authorization



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

BUSINESS INFORMATION REQUEST

Business Name	
Division of	
Subsidiary of	
Website Address	
Type of Business <i>Check One:</i>	<input type="checkbox"/> Individual <input type="checkbox"/> DBA, Name _____, County Filed in _____ <input type="checkbox"/> Corporation, ID No. _____ <input type="checkbox"/> LLC/LLP, ID No. _____ <input type="checkbox"/> Other _____

REMITTING ADDRESS INFORMATION

Address			
City/Town			
State/Province		Zip	
Phone	() - Ext	Fax	() -
Contact		Title	
E-mail Address			
Payment Name if Different			

All invoices must reference the corresponding Purchase Order Number(s)/Contract Number(s) if applicable and mailed to:

Attention: Accounts Payable, Accounting Department
South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, CA 91765-4178

BUSINESS STATUS CERTIFICATIONS

Federal guidance for utilization of disadvantaged business enterprises allows a vendor to be deemed a small business enterprise (SBE), minority business enterprise (MBE) or women business enterprise (WBE) if it meets the criteria below.

- is certified by the Small Business Administration or
- is certified by a state or federal agency or
- is an independent MBE(s) or WBE(s) business concern which is at least 51 percent owned and controlled by minority group member(s) who are citizens of the United States.

Statements of certification:

As a prime contractor to SCAQMD, (name of business) will engage in good faith efforts to achieve the fair share in accordance with 40 CFR Section 33.301, and will follow the six affirmative steps listed below **for contracts or purchase orders funded in whole or in part by federal grants and contracts.**

1. Place qualified SBEs, MBEs, and WBEs on solicitation lists.
2. Assure that SBEs, MBEs, and WBEs are solicited whenever possible.
3. When economically feasible, divide total requirements into small tasks or quantities to permit greater participation by SBEs, MBEs, and WBEs.
4. Establish delivery schedules, if possible, to encourage participation by SBEs, MBEs, and WBEs.
5. Use services of Small Business Administration, Minority Business Development Agency of the Department of Commerce, and/or any agency authorized as a clearinghouse for SBEs, MBEs, and WBEs.
6. If subcontracts are to be let, take the above affirmative steps.

Self-Certification Verification: Also for use in awarding additional points, as applicable, in accordance with SCAQMD Procurement Policy and Procedure:

Check all that apply:

- | | |
|---|--|
| <input type="checkbox"/> Small Business Enterprise/Small Business Joint Venture | <input type="checkbox"/> Women-owned Business Enterprise |
| <input type="checkbox"/> Local business | <input type="checkbox"/> Disabled Veteran-owned Business Enterprise/DVBE Joint Venture |
| <input type="checkbox"/> Minority-owned Business Enterprise | <input type="checkbox"/> Most Favored Customer Pricing Certification |

Percent of ownership: _____ %

Name of Qualifying Owner(s): _____

State of California Public Works Contractor Registration No. _____ . MUST BE INCLUDED IF BID PROPOSAL IS FOR PUBLIC WORKS PROJECT.

I, the undersigned, hereby declare that to the best of my knowledge the above information is accurate. Upon penalty of perjury, I certify information submitted is factual.

NAME

TITLE

TELEPHONE NUMBER

DATE

Definitions

Disabled Veteran-Owned Business Enterprise means a business that meets all of the following criteria:

- is a sole proprietorship or partnership of which is at least 51 percent owned by one or more disabled veterans, or in the case of any business whose stock is publicly held, at least 51 percent of the stock is owned by one or more disabled veterans; a subsidiary which is wholly owned by a parent corporation but only if at least 51 percent of the voting stock of the parent corporation is owned by one or more disabled veterans; or a joint venture in which at least 51 percent of the joint venture's management and control and earnings are held by one or more disabled veterans.
- the management and control of the daily business operations are by one or more disabled veterans. The disabled veterans who exercise management and control are not required to be the same disabled veterans as the owners of the business.
- is a sole proprietorship, corporation, partnership, or joint venture with its primary headquarters office located in the United States and which is not a branch or subsidiary of a foreign corporation, firm, or other foreign-based business.

Joint Venture means that one party to the joint venture is a DVBE and owns at least 51 percent of the joint venture. In the case of a joint venture formed for a single project this means that DVBE will receive at least 51 percent of the project dollars.

Local Business means a business that meets all of the following criteria:

- has an ongoing business within the boundary of SCAQMD at the time of bid application.
- performs 90 percent of the work within SCAQMD's jurisdiction.

Minority-Owned Business Enterprise means a business that meets all of the following criteria:

- is at least 51 percent owned by one or more minority persons or in the case of any business whose stock is publicly held, at least 51 percent of the stock is owned by one or more minority persons.
- is a business whose management and daily business operations are controlled or owned by one or more minority person.
- is a business which is a sole proprietorship, corporation, partnership, joint venture, an association, or a cooperative with its primary headquarters office located in the United States, which is not a branch or subsidiary of a foreign corporation, foreign firm, or other foreign business.

“Minority” person means a Black American, Hispanic American, Native American (including American Indian, Eskimo, Aleut, and Native Hawaiian), Asian-Indian American (including a person whose origins are from India, Pakistan, or Bangladesh), Asian-Pacific American (including a person whose origins are from Japan, China, the Philippines, Vietnam, Korea, Samoa, Guam, the United States Trust Territories of the Pacific, Northern Marianas, Laos, Cambodia, or Taiwan).

Small Business Enterprise means a business that meets the following criteria:

- a. 1) an independently owned and operated business; 2) not dominant in its field of operation; 3) together with affiliates is either:
 - **A service, construction, or non-manufacturer with 100 or fewer employees, and average annual gross receipts of ten million dollars (\$10,000,000) or less over the previous three years, or**
 - A manufacturer with 100 or fewer employees.
- b. Manufacturer means a business that is both of the following:
 - 1) Primarily engaged in the chemical or mechanical transformation of raw materials or processed substances into new products.
 - 2) Classified between Codes 311000 to 339000, inclusive, of the North American Industrial Classification System (NAICS) Manual published by the United States Office of Management and Budget, 2007 edition.

Small Business Joint Venture means that one party to the joint venture is a Small Business and owns at least 51 percent of the joint venture. In the case of a joint venture formed for a single project this means that the Small Business will receive at least 51 percent of the project dollars.

Women-Owned Business Enterprise means a business that meets all of the following criteria:

- is at least 51 percent owned by one or more women or in the case of any business whose stock is publicly held, at least 51 percent of the stock is owned by one or more women.
- is a business whose management and daily business operations are controlled or owned by one or more women.
- is a business which is a sole proprietorship, corporation, partnership, or a joint venture, with its primary headquarters office located in the United States, which is not a branch or subsidiary of a foreign corporation, foreign firm, or other foreign business.

Most Favored Customer as used in this policy means that the SCAQMD will receive at least as favorable pricing, warranties, conditions, benefits and terms as other customers or clients making similar purchases or receiving similar services.

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting*, later, for further information.

Note: If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States.

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Pub. 515, *Withholding of Tax on Nonresident Aliens and Foreign Entities*).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items.

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 24% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the instructions for Part II for details),
3. The IRS tells the requester that you furnished an incorrect TIN,
4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or
5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code*, later, and the separate Instructions for the Requester of Form W-9 for more information.

Also see *Special rules for partnerships*, earlier.

What is FATCA Reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code*, later, and the Instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account (other than an account maintained by a foreign financial institution (FFI)), list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9. If you are providing Form W-9 to an FFI to document a joint account, each holder of the account that is a U.S. person must provide a Form W-9.

a. **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note: ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. **Sole proprietor or single-member LLC.** Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or “doing business as” (DBA) name on line 2.

c. **Partnership, LLC that is not a single-member LLC, C corporation, or S corporation.** Enter the entity’s name as shown on the entity’s tax return on line 1 and any business, trade, or DBA name on line 2.

d. **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. **Disregarded entity.** For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a “disregarded entity.” See Regulations section 301.7701-2(c)(2)(iii). Enter the owner’s name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner’s name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity’s name on line 2, “Business name/disregarded entity name.” If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

Line 3

Check the appropriate box on line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box on line 3.

IF the entity/person on line 1 is a(n) . . .	THEN check the box for . . .
• Corporation	Corporation
• Individual • Sole proprietorship, or • Single-member limited liability company (LLC) owned by an individual and disregarded for U.S. federal tax purposes.	Individual/sole proprietor or single-member LLC
• LLC treated as a partnership for U.S. federal tax purposes, • LLC that has filed Form 8832 or 2553 to be taxed as a corporation, or • LLC that is disregarded as an entity separate from its owner but the owner is another LLC that is not disregarded for U.S. federal tax purposes.	Limited liability company and enter the appropriate tax classification. (P= Partnership; C= C corporation; or S= S corporation)
• Partnership	Partnership
• Trust/estate	Trust/estate

Line 4, Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space on line 4 any code(s) that may apply to you.

Exempt payee code.

- Generally, individuals (including sole proprietors) are not exempt from backup withholding.
- Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.
- Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.
- Corporations are not exempt from backup withholding with respect to attorneys’ fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

- 1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)
- 2—The United States or any of its agencies or instrumentalities
- 3—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities
- 4—A foreign government or any of its political subdivisions, agencies, or instrumentalities
- 5—A corporation
- 6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession
- 7—A futures commission merchant registered with the Commodity Futures Trading Commission
- 8—A real estate investment trust
- 9—An entity registered at all times during the tax year under the Investment Company Act of 1940
- 10—A common trust fund operated by a bank under section 584(a)
- 11—A financial institution
- 12—A middleman known in the investment community as a nominee or custodian
- 13—A trust exempt from tax under section 664 or described in section 4947

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over \$600 required to be reported and direct sales over \$5,000 ¹	Generally, exempt payees 1 through 5 ²
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

¹ See Form 1099-MISC, Miscellaneous Income, and its instructions.

² However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)

B—The United States or any of its agencies or instrumentalities

C—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)

F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

G—A real estate investment trust

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940

I—A common trust fund as defined in section 584(a)

J—A bank as defined in section 581

K—A broker

L—A trust exempt from tax under section 664 or described in section 4947(a)(1)

M—A tax exempt trust under a section 403(b) plan or section 457(g) plan

Note: You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns. If this address differs from the one the requester already has on file, write NEW at the top. If a new address is provided, there is still a chance the old address will be used until the payor changes your address in their records.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN.

If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note: See *What Name and Number To Give the Requester*, later, for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at www.SSA.gov. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at www.irs.gov/Businesses and clicking on Employer Identification Number (EIN) under Starting a Business. Go to www.irs.gov/Forms to view, download, or print Form W-7 and/or Form SS-4. Or, you can go to www.irs.gov/OrderForms to place an order and have Form W-7 and/or SS-4 mailed to you within 10 business days.

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note: Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if item 1, 4, or 5 below indicates otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code*, earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983.

You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983.

You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), ABLE accounts (under section 529A), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account) other than an account maintained by an FFI	The actual owner of the account or, if combined funds, the first individual on the account ¹
3. Two or more U.S. persons (joint account maintained by an FFI)	Each holder of the account
4. Custodial account of a minor (Uniform Gift to Minors Act)	The minor ²
5. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee ¹
b. So-called trust account that is not a legal or valid trust under state law	The actual owner ¹
6. Sole proprietorship or disregarded entity owned by an individual	The owner ³
7. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))	The grantor*
For this type of account:	Give name and EIN of:
8. Disregarded entity not owned by an individual	The owner
9. A valid trust, estate, or pension trust	Legal entity ⁴
10. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
11. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
12. Partnership or multi-member LLC	The partnership
13. A broker or registered nominee	The broker or nominee

For this type of account:	Give name and EIN of:
14. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
15. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(i)(B))	The trust

¹ List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

² Circle the minor's name and furnish the minor's SSN.

³ You must show your individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

⁴ List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships*, earlier.

*Note: The grantor also must provide a Form W-9 to trustee of trust.

Note: If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records From Identity Theft

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Pub. 5027, Identity Theft Information for Taxpayers.

Victims of identity theft who are experiencing economic harm or a systemic problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes.

Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to phishing@irs.gov. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at spam@uce.gov or report them at www.ftc.gov/complaint. You can contact the FTC at www.ftc.gov/idtheft or 877-IDTHEFT (877-438-4338). If you have been the victim of identity theft, see www.IdentityTheft.gov and Pub. 5027.

Visit www.irs.gov/IdentityTheft to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

2020 Withholding Exemption Certificate**590****The payee completes this form and submits it to the withholding agent. The withholding agent keeps this form with their records.****Withholding Agent Information**

Name _____

Payee InformationName _____ SSN or ITIN FEIN CA Corp no. CA SOS file no.

Address (apt./ste., room, PO box, or PMB no.) _____

City (If you have a foreign address, see instructions.) _____ State _____ ZIP code _____

Exemption Reason**Check only one box.**

By checking the appropriate box below, the payee certifies the reason for the exemption from the California income tax withholding requirements on payment(s) made to the entity or individual.

 Individuals — Certification of Residency:

I am a resident of California and I reside at the address shown above. If I become a nonresident at any time, I will promptly notify the withholding agent. See instructions for General Information D, Definitions.

 Corporations:

The corporation has a permanent place of business in California at the address shown above or is qualified through the California Secretary of State (SOS) to do business in California. The corporation will file a California tax return. If this corporation ceases to have a permanent place of business in California or ceases to do any of the above, I will promptly notify the withholding agent. See instructions for General Information D, Definitions.

 Partnerships or Limited Liability Companies (LLCs):

The partnership or LLC has a permanent place of business in California at the address shown above or is registered with the California SOS, and is subject to the laws of California. The partnership or LLC will file a California tax return. If the partnership or LLC ceases to do any of the above, I will promptly inform the withholding agent. For withholding purposes, a limited liability partnership (LLP) is treated like any other partnership.

 Tax-Exempt Entities:

The entity is exempt from tax under California Revenue and Taxation Code (R&TC) Section 23701 _____ (insert letter) or Internal Revenue Code Section 501(c) _____ (insert number). If this entity ceases to be exempt from tax, I will promptly notify the withholding agent. Individuals cannot be tax-exempt entities.

 Insurance Companies, Individual Retirement Arrangements (IRAs), or Qualified Pension/Profit-Sharing Plans:

The entity is an insurance company, IRA, or a federally qualified pension or profit-sharing plan.

 California Trusts:

At least one trustee and one noncontingent beneficiary of the above-named trust is a California resident. The trust will file a California fiduciary tax return. If the trustee or noncontingent beneficiary becomes a nonresident at any time, I will promptly notify the withholding agent.

 Estates — Certification of Residency of Deceased Person:

I am the executor of the above-named person's estate or trust. The decedent was a California resident at the time of death. The estate will file a California fiduciary tax return.

 Nonmilitary Spouse of a Military Servicemember:

I am a nonmilitary spouse of a military servicemember and I meet the Military Spouse Residency Relief Act (MSRRA) requirements. See instructions for General Information E, MSRRA.

CERTIFICATE OF PAYEE: Payee must complete and sign below.To learn about your privacy rights, how we may use your information, and the consequences for not providing the requested information, go to ftb.ca.gov/forms and search for **1131**. To request this notice by mail, call 800.852.5711.

Under penalties of perjury, I declare that I have examined the information on this form, including accompanying schedules and statements, and to the best of my knowledge and belief, it is true, correct, and complete. I further declare under penalties of perjury that if the facts upon which this form are based change, I will promptly notify the withholding agent.

Type or print payee's name and title _____ Telephone _____

Payee's signature ► _____ Date _____

Certification Regarding Debarment, Suspension, and Other Responsibility Matters

The prospective participant certifies to the best of its knowledge and belief that it and the principals:

- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- (b) Have not within a three year period preceding this proposal been convicted of or had a civil judgement rendered against them or commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction: violation of Federal or State antitrust statute or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- (c) Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (b) of this certification; and
- (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

I understand that a false statement on this certification may be grounds for rejection of this proposal or termination of the award. In addition, under 18 USC Sec. 1001, a false statement may result in a fine of up to \$10,000 or imprisonment for up to 5 years, or both.

Typed Name & Title of Authorized Representative

Signature of Authorized Representative Date

I am unable to certify to the above statements. My explanation is attached.



CAMPAIGN CONTRIBUTIONS DISCLOSURE

In accordance with California law, bidders and contracting parties are required to disclose, at the time the application is filed, information relating to any campaign contributions made to South Coast Air Quality Management District (SCAQMD) Board Members or members/alternates of the MSRC, including: the name of the party making the contribution (which includes any parent, subsidiary or otherwise related business entity, as defined below), the amount of the contribution, and the date the contribution was made. 2 C.C.R. §18438.8(b).

California law prohibits a party, or an agent, from making campaign contributions to SCAQMD Governing Board Members or members/alternates of the Mobile Source Air Pollution Reduction Review Committee (MSRC) of more than \$250 while their contract or permit is pending before SCAQMD; and further prohibits a campaign contribution from being made for three (3) months following the date of the final decision by the Governing Board or the MSRC on a donor's contract or permit. Gov't Code §84308(d). For purposes of reaching the \$250 limit, the campaign contributions of the bidder or contractor plus contributions by its parents, affiliates, and related companies of the contractor or bidder are added together. 2 C.C.R. §18438.5.

In addition, SCAQMD Board Members or members/alternates of the MSRC must abstain from voting on a contract or permit if they have received a campaign contribution from a party or participant to the proceeding, or agent, totaling more than \$250 in the 12-month period prior to the consideration of the item by the Governing Board or the MSRC. Gov't Code §84308(c).

The list of current SCAQMD Governing Board Members can be found at SCAQMD website (www.aqmd.gov). The list of current MSRC members/alternates can be found at the MSRC website (<http://www.cleantransportationfunding.org>).

SECTION I.

Contractor (Legal Name): _____

DBA, Name _____, County Filed in _____
Corporation, ID No. _____
LLC/LLP, ID No. _____

List any parent, subsidiaries, or otherwise affiliated business entities of Contractor:
(See definition below).

SECTION II.

Has Contractor and/or any parent, subsidiary, or affiliated company, or agent thereof, made a campaign contribution(s) totaling \$250 or more in the aggregate to a current member of the South Coast Air Quality Management Governing Board or member/alternate of the MSRC in the 12 months preceding the date of execution of this disclosure?

Yes No **If YES, complete Section II below and then sign and date the form. If NO, sign and date below. Include this form with your submittal.**

Campaign Contributions Disclosure, continued:

Name of Contributor _____

Governing Board Member or MSRC Member/Alternate Amount of Contribution Date of Contribution

Name of Contributor _____

Governing Board Member or MSRC Member/Alternate Amount of Contribution Date of Contribution

Name of Contributor _____

Governing Board Member or MSRC Member/Alternate Amount of Contribution Date of Contribution

Name of Contributor _____

Governing Board Member or MSRC Member/Alternate Amount of Contribution Date of Contribution

I declare the foregoing disclosures to be true and correct.

By: _____

Title: _____

Date: _____

DEFINITIONS

Parent, Subsidiary, or Otherwise Related Business Entity (2 Cal. Code of Regs., §18703.1(d).)

- (1) Parent subsidiary. A parent subsidiary relationship exists when one corporation directly or indirectly owns shares possessing more than 50 percent of the voting power of another corporation.
- (2) Otherwise related business entity. Business entities, including corporations, partnerships, joint ventures and any other organizations and enterprises operated for profit, which do not have a parent subsidiary relationship are otherwise related if any one of the following three tests is met:
 - (A) One business entity has a controlling ownership interest in the other business entity.
 - (B) There is shared management and control between the entities. In determining whether there is shared management and control, consideration should be given to the following factors:
 - (i) The same person or substantially the same person owns and manages the two entities;
 - (ii) There are common or commingled funds or assets;
 - (iii) The business entities share the use of the same offices or employees, or otherwise share activities, resources or personnel on a regular basis;
 - (iv) There is otherwise a regular and close working relationship between the entities; or
 - (C) A controlling owner (50% or greater interest as a shareholder or as a general partner) in one entity also is a controlling owner in the other entity.



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

Direct Deposit Authorization

STEP 1: Please check all the appropriate boxes

- | | |
|--|--|
| <input type="checkbox"/> Individual (Employee, Governing Board Member) | <input type="checkbox"/> New Request |
| <input type="checkbox"/> Vendor/Contractor | <input type="checkbox"/> Cancel Direct Deposit |
| <input type="checkbox"/> Changed Information | |

STEP 2: Payee Information

Last Name		First Name		Middle Initial	Title
Vendor/Contractor Business Name (if applicable)					
Address				Apartment or P.O. Box Number	
City		State	Zip	Country	
Taxpayer ID Number		Telephone Number		Email Address	

Authorization

- I authorize South Coast Air Quality Management District (SCAQMD) to direct deposit funds to my account in the financial institution as indicated below. I understand that the authorization may be rejected or discontinued by SCAQMD at any time. If any of the above information changes, I will promptly complete a new authorization agreement. If the direct deposit is not stopped before closing an account, funds payable to me will be returned to SCAQMD for distribution. This will delay my payment.
- This authorization remains in effect until SCAQMD receives written notification of changes or cancellation from you.
- I hereby release and hold harmless SCAQMD for any claims or liability to pay for any losses or costs related to insufficient fund transactions that result from failure within the Automated Clearing House network to correctly and timely deposit monies into my account.

STEP 3:

You must verify that your bank is a member of an Automated Clearing House (ACH). Failure to do so could delay the processing of your payment. You must attach a voided check or have your bank complete the bank information and the account holder must sign below.

To be Completed by your Bank

Staple Voided Check Here	Name of Bank/Institution				
	Account Holder Name(s)				
	<input type="checkbox"/> Saving <input type="checkbox"/> Checking		Account Number		Routing Number
	Bank Representative Printed Name		Bank Representative Signature		Date
	ACCOUNT HOLDER SIGNATURE:				Date

For SCAQMD Use Only

Input By _____

Date _____

Agenda Item #2

Ping Gui

Issue Program Announcement for Zero-Emission Class 8 Freight and Port Drayage Trucks Eligible Under Statewide Volkswagen Mitigation Program and Execute Contracts for Selected Eligible Projects

Background

Volkswagen (VW) Environmental Mitigation Program

Air District	Project Category	Allocation (millions)
South Coast AQMD	Combustion Freight and Marine Projects	\$60*
	Zero-Emission Class 8 Freight and Port Drayage Trucks	\$90*
SJVAPCD	Zero-Emission Transit, School and Shuttle Buses	\$130
BAAQMD	Zero-Emission Freight and Marine Projects	\$70
	Light-Duty Zero-Emission Vehicle Infrastructure	\$10
	Total	\$360

*In November 2018 and March 2020, the Board recognized up to \$150M in projects and \$15M for administrative costs for South Coast AQMD's two funding categories

Background (cont'd)

- Program development
 - Administrative budget, project agreements, outreach, VW webpage and grant management system (GMS)
- Multiple solicitations over next few years
 - In October 2019, San Joaquin Valley APCD issued the first solicitation for \$65M for Zero-Emission Transit, School and Shuttle Buses
 - In December 2019, South Coast AQMD released the first solicitation for \$30M for Combustion Freight and Marine Projects
 - In February 2020, Bay Area AQMD issued a solicitation for \$5M for Light-Duty Hydrogen Fueling Infrastructure



Proposal

- Issue solicitation for Zero-Emission Class 8 Freight and Port Drayage Trucks (statewide)
 - First-come, first-served
 - \$27 million in available funds (1st installment)
- Eligible projects: replacement of Class 8 freight trucks (including concrete mixers, dump trucks and waste haulers)
- Solicitation will close once all funds are expended
- Applications submitted through South Coast AQMD's online portal



Proposal (cont'd)

- Up to \$200,000 per eligible truck
- Minimum requirements:
 - One-year ownership
 - 75% operation in California
 - Existing truck must be scrapped
 - Fleet must be in compliance with applicable regulations
- Replacement technology:
 - Class 8 zero-emission trucks (CARB-approved)
- Authorize Executive Officer to enter into contracts for eligible projects on a first-come, first-served basis until all funds are fully expended



Recommended Actions

- Issue Program Announcement #PA2021-01 to solicit projects for the Zero-Emission Class 8 Freight and Port Drayage Trucks category in an amount of \$27 million from the statewide VW Environmental Mitigation Trust Program
- Authorize Executive Officer to enter into contracts for eligible projects selected by the first-come, first-served solicitation for the VW Zero-Emission Class 8 Freight and Port Drayage Trucks category

Technology Committee Agenda #3

BOARD MEETING DATE: August 7, 2020

AGENDA NO.

PROPOSAL: Issue RFP for Qualified Installers of Global Positioning Devices for Marine Vessel Projects

SYNOPSIS: South Coast AQMD requires all marine vessel engine repowering projects funded by the Carl Moyer Program to install a Global Positioning System (GPS) on the vessel in order to monitor operation within South Coast AQMD's jurisdictional waters. These marine vessel projects are required to operate at least 75 percent of the time in South Coast AQMD's jurisdictional waters throughout the contract life. However, South Coast AQMD's contract with the previous installer has expired. This action is to issue an RFP soliciting bids from qualified vendors for the purchase, installation, tracking and monitoring of GPS devices equipped with electronic monitoring units on marine vessels funded by the Carl Moyer Program.

COMMITTEE: Technology, June 19, 2020; Recommended for Approval

RECOMMENDED ACTION:

Issue RFP #P2021-01 soliciting bids from qualified vendors for the purchase, installation, tracking and monitoring of GPS devices equipped with electronic monitoring units on marine vessels funded by South Coast AQMD's Carl Moyer Program.

Wayne Nastri
Executive Officer

MMM:NB:VW:WS

Background

The South Coast AQMD administers voluntary incentive-based programs, such as the Carl Moyer Program, to reduce NOx and PM emissions from mobile sources. For marine vessel projects funded by the Carl Moyer Program, the South Coast AQMD requires that these marine vessels operate at least 75 percent of the time in South Coast AQMD waters--identified as the areas between the Northern Coastal Boundary of the Ventura

and Los Angeles County border, and the Southern Coastal Boundary of the San Diego and Orange County border. As a condition of their contract, marine vessel project awardees under the Carl Moyer Program must agree to the installation of a GPS device equipped with an electronic monitoring unit (EMU) to assist the South Coast AQMD with enforcement of the 75 percent operational requirement through remote viewing of the GPS data in real-time. The basic function of the GPS unit is to determine location (latitude, longitude), time and date on a continuous or periodic basis. The EMU must be capable of storing data collected by the GPS (magnetically, optically) for transmission to the South Coast AQMD. Staff is also reviewing expanding the use of GPS systems for locomotives and on-road heavy-duty trucks as part of an effort to devise effective strategies, such as a trade-down approach, for maximizing the use of limited incentive funds.

In April 2012, South Coast AQMD selected Radio Satellite Integrators (RSI) through a competitive solicitation and contracted with them to install the GPS devices and track and monitor the marine vessels to verify compliance with the 75 percent operational requirement. The contract with RSI expired in July 2019 but the need for GPS device installation and monitoring services is still required.

Proposal

This action is to issue an RFP soliciting bids from qualified vendors for the purchase, installation, tracking and monitoring of GPS devices equipped with EMUs for marine vessels, and potentially other types of vessels or vehicles, funded by the Carl Moyer Program. Proposals will be due Friday, November 6, 2020, at 1:00 p.m.

The GPS-EMU systems shall accurately collect miles traveled or hours operated within South Coast AQMD boundaries and geo-fence regions, determine percent of operation within South Coast AQMD boundaries, track distance, and operate in all ambient temperatures and weather conditions in California. Monitoring data will be transmitted to the South Coast AQMD in real-time and on a periodic basis.

Proposals will be solicited from qualified vendors for GPS-EMU systems that can meet the above requirements. South Coast AQMD will choose the most cost competitive and technologically superior product but reserves the right not to choose any proposal received under this RFP if no proposal meets the above requirements.

Outreach

In accordance with South Coast AQMD's Procurement Policy and Procedure, a public notice advertising the RFP and inviting bids will be 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 Air Basin.

Additionally, potential bidders may be notified utilizing South Coast AQMD's own electronic listing of certified minority vendors. Notice of the RFP will be emailed to the Black and Latino Legislative Caucuses and various minority chambers of commerce and business associations, and placed on the Internet at South Coast AQMD's website (<http://www.aqmd.gov>) where it can be viewed by making the selection "Grants & Bids".

Bid Evaluation

Proposals received will be evaluated by a panel consisting of South Coast AQMD technical/management staff and/or technically qualified outside experts who have appropriate expertise. The panel will make recommendations and the final selection of the Contractor will be subject to approval by the Board.

Benefits to South Coast AQMD

The installation of GPS-EMU systems on marine vessels and other vehicles funded under the Carl Moyer Program will provide added enforcement capability to the South Coast AQMD including monitoring the location, nautical miles traveled and hours of operation. The installation of such systems will provide operational data to the South Coast AQMD in real-time and on a periodic basis, as needed.

Resource Impacts

Funding for the GPS-EMU hardware, installation and services will be available from the Carl Moyer Program Fund (32). Staff will return to the Board for consideration of the contract award following evaluation of the bids received.

Attachment

RFP #P2021-01 - Solicit Proposals for Qualified Installers of Global Positioning Devices for Marine Vessel Projects Funded by the Carl Moyer Program



South Coast Air Quality Management District

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT REQUEST FOR PROPOSALS

Solicit Bids for Qualified Installers of Global Positioning Devices for Marine Vessel Projects Funded by the Carl Moyer Program

#P2021-01

South Coast Air Quality Management District (South Coast AQMD) requests proposals for the following purpose according to terms and conditions attached. In the preparation of this Request for Proposals (RFP) the words "Proposer," "Contractor," "Consultant," "Bidder" and "Firm" are used interchangeably.

PURPOSE

The purpose of this Request for Proposal (RFP) is to solicit bids from qualified vendors to purchase global positioning systems (GPS) equipped with electronic monitoring units (EMUs) for marine vessel applications within the South Coast AQMD jurisdiction.

The GPS system must be capable of collecting accurate data for marine vessels including, but not limited to, marine vessel identifier, latitude/longitude coordinates, vector/direction of marine vessel, miles traveled, and marine engine hours operated. Additionally, systems must be able to define South Coast AQMD boundaries and geo-fence the eligible region of operations, accurately track location on a real-time basis and within an accuracy of 30 feet of any boundary, and to operate in all ambient temperatures and weather conditions. Qualified contractors will be responsible for monitoring and on-demand reporting for each marine vessel equipped with GPS-EMU devices. In addition, qualified contractors will also be responsible for GPS-EMU hardware and software installation on marine vessels.

The GPS-EMU systems may be expanded to other project types including, but not limited to, locomotives and on-road heavy-duty vehicles as part of South Coast AQMD's effort to monitor other emission reduction projects.

The South Coast AQMD is soliciting bids from GPS-EMU hardware and software providers and/or service providers. This RFP is for qualified vendors for GPS-EMU systems that can meet the above requirements. From the bids received, South Coast AQMD will choose the most cost competitive product. More than one qualified vendor may be chosen from this solicitation. South Coast AQMD reserves the right not to choose any bid from this RFP.

INDEX - The following are contained in this RFP:

Section I	Background/Information
Section II	Contact Person
Section III	Schedule of Events

Section IV	Participation in the Procurement Process
Section V	Statement of Work/Schedule of Deliverables
Section VI	Required Qualifications
Section VII	Proposal Submittal Requirements
Section VIII	Proposal Submission
Section IX	Proposal Evaluation/Contractor Selection Criteria
Section X	Funding
Section XI	Sample Contract

Attachment A - Participation in the Procurement Process

Attachment B - Certifications and Representations

SECTION I: BACKGROUND/INFORMATION

The South Coast AQMD administers and implements a variety of incentive-based programs to reduce emissions and improve air quality, including the Carl Moyer Program. The Carl Moyer Program is a voluntary incentive program that provides funding for the replacement or repower of older, diesel equipment and/or engines with cleaner-than-required engines and equipment technologies. The Carl Moyer Program accelerates the commercialization of the cleanest technology available while achieving emission reductions in the South Coast Air Basin. The Carl Moyer Program is implemented annually by the South Coast AQMD. One of the project categories of the Carl Moyer Program is the repower of propulsion and auxiliary engines on marine vessels. Marine vessel engines are generally diesel-fueled and operate in the coastal boundaries within the South Coast AQMD jurisdiction. Examples of marine vessels may include: tug-boats, ferries, excursion vessels, fishing and pilot boats. Engines operated on marine vessels can be subjected to very demanding duty-cycles, operate in adverse weather conditions, and under stop-and-go conditions.

South Coast AQMD requires all marine vessel engine repowering projects to install a Global Positioning System (GPS) on the vessel in order to monitor the operation within South Coast AQMD jurisdictional waters. These marine vessel projects, as a condition of their contract, must operate at least 75 percent of the time in South Coast AQMD jurisdictional waters throughout the contract life. The cost of installation of the GPS-EMU devices and monitoring services will not be incurred by the marine vessel owners; instead, funding for the GPS-EMU devices and monitoring will be provided by the Carl Moyer Program, which include revenues from smog abatement fees, tire fees and local DMV fees.

The previous RFP to solicit qualified vendors to install GPS-EMU devices and provide monitoring, reporting and GPS data was released in December 2011, and a contract was executed with the qualified vendor, as approved by the South Coast AQMD Governing Board on April 2012. The contract with the qualified vendor expired in July 2019.

Other project categories including, but not limited to, locomotives and on-road heavy-duty vehicles may be included as part of this solicitation.

In addition to incentive programs such as the Carl Moyer Program, South Coast AQMD also funds projects under the Research, Demonstration, Development, and Deployment (RDD&D) program, which may also require monitoring to ensure that the projects stay within South Coast AQMD boundaries. Under this Request for Proposal

(RFP), GPS-EMU devices and monitoring services may also be applied to the RDD&D program.

SECTION II: CONTACT PERSON:

Questions regarding the content or intent of this RFP or on procedural matters should be addressed to:

Walter Shen
 Program Supervisor
 Technology Advancement Office
 South Coast AQMD
 21865 Copley Drive
 Diamond Bar, CA 91765-4178
 (909) 396-2487

SECTION III: SCHEDULE OF EVENTS

Date	Event
August 7, 2020	RFP Released
October 2, 2020	Bidder's Conference*
November 6, 2020	Proposals Due to South Coast AQMD - No Later Than 1:00 pm
November 10 thru December 8, 2020	Proposal Evaluations
January 5 thru January 8, 2021	Interviews, if required
February 5, 2021	Governing Board Approval
April 30, 2021	Anticipated Contract Execution

*Participation in the Bidder's Conference is optional. Such participation would assist in notifying potential Bidders of any updates or amendments. The Bidder's Conference will be held in Room CC6 at South Coast AQMD Headquarters in Diamond Bar, California at 10:00 am on Friday, October 2, 2020. (Should the need arise to conduct the Bidder's Conference remotely, it will be conducted via an online meeting platform, such as ZOOM or WebEx.) Please contact Walter Shen at (909) 396-2487 by close of business on Friday, September 25, 2020, if you plan to attend or for additional information should a remote meeting be required.

SECTION IV: PARTICIPATION IN THE PROCUREMENT PROCESS

It is the policy of South Coast AQMD to ensure that all businesses including minority business enterprises, women business enterprises, disabled veteran business enterprises and small businesses have a fair and equitable opportunity to compete for

and participate in South Coast AQMD contracts. Attachment A to this RFP contains definitions and further information.

SECTION V: STATEMENT OF WORK/SCHEDULE OF DELIVERABLES

Statement of Work

Bid proposals should address the information requested in the following tasks and sub-tasks in the format specified below. Project proponents are encouraged to pay close attention to *Section IX - PROPOSAL EVALUATION/CONTRACTOR SELECTION CRITERIA* to assess how their bids will be evaluated. Information provided should be specific enough for evaluation and scoring purposes, and for inclusion into a binding contract. Successful bidders are expected to expand, and provide more complete details, on each Task and sub-task included in the Statement of Work below:

Please respond to Tasks 1 through 3 in the following format:

1. Describe how your GPS-EMU product meets the South Coast AQMD requirements for functionality, durability, reliability, warranty, etc.
2. Describe how the GPS-EMU equipment will be tamperproof.
3. Describe the system's memory and storage capabilities.
4. Describe installation and service procedures, both in general and how this might apply to the South Coast AQMD's program.
5. Describe level of accuracy of recording miles traveled within defined boundaries.
6. Describe how your company will collect data, as well as organize and retain said data.
7. Describe how the data will be transmitted to the South Coast AQMD (including format).
8. Provide the system technical information on the tracking software for the client and base station (if required to host the system in-house) the system specification, such as computer hardware, operation system, database server, application software, client software.
9. Provide system price per unit, base station system (if applicable), price of GPS-EMU including a breakout of costs for hardware, installation, and monthly monitoring/reporting (if any) and data service. The South Coast AQMD estimates between 30 to 40 marine vessels will be equipped with GPS-EMU systems annually. Vendor must provide unit price of hardware and services costs.

Task 1: Global Positioning System Specifications

The basic function of the GPS is to determine location (latitude, longitude), time, and date on a continuous or periodic basis as required by the project. The EMU provides the capability to store data collected by the GPS (magnetically, optically), provide data

to the South Coast AQMD, as required, on a continuous or periodic basis. GPS data must be provided to the South Coast AQMD via e-mail or electronic format such as a CDs or flash-drives; or via secure web-based formats offering real-time displays of project location, and the ability to obtain statuses as highlighted in Task 2 below. The GPS-EMU system shall accurately collect miles traveled within the South Coast AQMD boundaries, geo-fence regions, determine percent of operation within South Coast AQMD boundaries, track distance within an accuracy of 100 feet of any boundary, and operate in all ambient temperatures and weather conditions in California.

The GPS-EMU software will be supplied by the vendor and will be populated with geo-fenced perimeters for the South Coast AQMD boundaries, which will include coordinates for South Coast AQMD waters. The South Coast AQMD will provide a map to the vendor for areas to be geo-fenced. The vendor shall state in detail how the activity level information gathered by the GPS-EMU system and analyzed by the geo-fence software will be stored in a magnetic/optical device (or equivalent) or transmitted directly to the base station in real-time, which is accessible by South Coast AQMD.

At a minimum, the GPS shall meet the following specifications:

GPS Positioning

Using GPS satellites, the GPS system must constantly track, display, and store the geographic position of each marine vessel (and other vehicle projects as needed). Positions must be displayed on web-based software, showing real-time marine vessel positions superimposed over user-friendly background maps, with an option to also display the tracks of travel over user-defined time intervals.

Regional Mileage Recording Accuracy

To ensure accurate recording of distance traveled in miles, vendor must explain how the required data is to be collected, processed, analyzed, and presented. If applicable, include reference to hardware, GPS data, logistics, or geo-statistical information that will help define the intended process and assure client of data accuracy and timeliness of reporting.

GPS Accuracy

The GPS receiver unit must be capable of 30 feet accuracy in a vessel (or vehicle) moving up to 80 mph

GPS Time of Locate & Report Date/Time Stamp

State the GPS time-of-locate duration and database archiving format

GPS Date/Time Stamp

Every event to be GPS time-stamped

GPS receiver

6-channels or better

Position update rate

Variable, depending upon user agency

Power-up sequence

Plug-and-play initialization and GPS first fix with no driver action required

Time-to-First Fix with GPS

Two minutes warm start, five minutes un-initialized cold start, vehicle in motion

Task 2: Electronic Monitoring Device Specifications

For each GPS-EMU system installed, the South Coast AQMD desires to collect data for ten (10) years.

- One approach will provide this data to the South Coast AQMD on a quarterly basis in an electronic summary report format. The format of the data transmitted to the South Coast AQMD shall be mutually agreed upon by the South Coast AQMD and the system vendor. It is expected that acceptable formats will be, but are not limited to, comma delimited, tab delimited, space delimited, Microsoft Excel, or other database formats. For each marine vessel, the quarterly transmission shall include:
 - Vehicle/Engine identification
 - Date of Download
 - Total accumulated miles within each geo-fenced boundary
 - Total accumulated miles outside each geo-fenced boundary
 - Total accumulated engine run hours within each geo-fenced boundary
 - An exception flag by geo-fenced boundary – flag will only indicate data quality concern that needs to be investigated or unit failure.
- The second approach will enable select South Coast AQMD staff access to the system and further monitor marine vessels (and other vehicle projects, as needed) in near real-time via a secure, web-based user-interface. The Internet access software must enable South Coast AQMD to view disparate assets (whether fixed or mobile) and to download activity reports, start/stop sequences, routing summaries for current and past operations.

At a minimum, the EMU shall meet the following specifications:

Location Identifier

Display latitude, longitude

Direction Indication

Display direction of travel

Speed

Display speed when in motion

Stationary Time

Display overall time when stationary

Key on/Key Off

Display key on, key off events/cycles

Calculate Engine Run Time

Record engine start and stop sequences and record total engine run-time for any given period

Distance Traveled

Provide capability to show distance traveled between locates and/or events. Record mileage traveled within specific regional boundaries as defined by South Coast AQMD through GIS coordinate designations

Display Coverage

Display entire region in a geo-fence as specified by South Coast AQMD

Zoom Capability

Provide zoom-in and zoom-out capability by both preset increments and user-defined areas

Current Location “Individual” Vehicle Identifier Display

Show current location of all marine vessels (or vehicle) within a specific region (identifying each vessel)

Visual Displays

Display marine vessel (or vehicle) location and track

Display Options

Selective marine vessel (or vehicle) displayed by all, by group, and individually

Labeling

Defined marine vessel (or vehicle) labeling as provided by South Coast AQMD

Waypoints

Ability to create cursor-defined waypoints

Symbols and Icons

Ability to change display symbols

Current Location – “All” Vehicle Position Display

Current location of all marine vessels (or vehicles) wherever they are located

Historical Travel Records

Display a historic and visual path of a South Coast AQMD-defined marine vessel (or vehicle) for up to one year from defined date

Movement Displays

When displaying a visual path, the system will provide the option of a step-by-step movement of the marine vessel (or vehicle) throughout the day, as well as showing the daily movements

Real-Time Vehicle Tracking Displays

Ability to have marine vessel (or vehicle) movement displayed on the screen as

information is received

Multiple Vehicle Path-of-Travel Displays

Display the path of more than one marine vessels (or vehicles) at a time

Graphical Illustration

Point, line, and area draws, shading, symbols, and fills

Printing

Hardcopy color print

Text Self-Contained Computer Mapping

Allow maps to reside on the client computer

Visual Display Maneuver Options

Provide the ability to automatically center, cursor center, pan, zoom, or move the display using box corners

Bearing & Distance

Provide the ability to allow for bearing and distance readouts

Daily Reporting

Contractor and South Coast AQMD shall be able to determine on a daily basis that all GPS-EMU units are functioning and reporting. Contractor must repair or replace any unit that fails the daily test for more than 3 days

Task 3: Warranty and Service

The minimum system warranty and service agreement will cover one year with options to extend the warranty beyond the first year if deemed appropriate by South Coast AQMD.

The South Coast AQMD seeks to procure GPS-EMU devices that can accurately provide usage data for each marine vessel (or other vehicle projects, as needed) over ten years. Devices in the field that fail during the warranty period will need to be repaired or replaced. Vendors should describe in their proposals how their system warranty and service information will meet these requirements. The South Coast AQMD will arrange for vendor access to the marine vessel (or vehicle) experiencing the problem.

Schedule of Deliverables

Successful bidders, following contract execution with South Coast AQMD, are expected to install GPS-EMU devices on vehicles, marine vessels, and other equipment within 60 days after notification by the South Coast AQMD.

1. Written progress reports following the completion of a significant milestone. This report will refer to the tasks in the statement of work, summarize and analyze project results by task, achievements to date, challenges that remain,

and recommendations. These progress reports should accompany any invoices billed to South Coast AQMD.

2. Quarterly progress meetings, which may take place in person or via conference call.

SECTION VI: REQUIRED QUALIFICATIONS

Vendors proposing to bid on this RFP must provide as part of their system proposal a list of installation facilities, installation time – including system lead time and vehicle/equipment installation, service locations, process, procedures, and cost. Vendors for this requested system may choose to train some or all of these qualified dealerships to perform installation and service. It will be up to the vendor to make any of these partnerships, not necessarily before submitting their proposal, but the fixed price per unit in the proposal must be inclusive of installation and service over ten years.

The South Coast AQMD estimates that between 30 to 40 marine vessels will be equipped with GPS-EMU systems annually. This will be an on-going project. As noted earlier, it is possible that even larger numbers will be needed in that same timeframe depending on future funding levels. Additional project types including, but not limited to, locomotives and on-road heavy-duty vehicles, may also be included in the annual estimates of the GPS-EMU system. Thus, the South Coast AQMD expects that any vendor awarded a contract through this RFP process will have business opportunities to supply these systems in an expeditious manner. Vendor must state how these demands will be met and the delivery schedule for volume orders of 100-200 units, 200 units and more.

In addition, vendors proposing to bid on this RFP must also submit the following summaries:

1. Describe the basics about your company, such as name, address, corporate officers, the person who can answer questions about GPS-EMU products, and the person's email address, telephone and fax numbers. List the company website (if any).
2. Describe how long your company has been in business, the types of products and services offered by your company, annual sales, examples of customers in general, and the financial status of your company.
3. Describe the general track record and history of the company in developing and selling GPS based equipment and services.
4. Describe how many units of the proposed GPS-EMU product (or a similar model) have been sold to date and are currently in use. Provide the names and contact information of 1 to 3 users in California (or other areas) who would not object to being contacted by the South Coast AQMD.

SECTION VII: PROPOSAL SUBMITTAL REQUIREMENTS

Submitted proposals must follow the format outlined below and all requested information must be supplied. Failure to submit proposals in the required format will

result in elimination from proposal evaluation. South Coast AQMD may modify the RFP or issue supplementary information or guidelines during the proposal preparation period prior to the due date. Please check our website for updates (<http://www.aqmd.gov/grants-bids>). The cost for developing the proposal is the responsibility of the Contractor and shall not be chargeable to South Coast AQMD.

Each proposal must be submitted in three separate volumes:

- Volume I - Technical Proposal
- Volume II - Cost Proposal
- Volume III - Certifications and Representations included in Attachment B to this RFP, must be completed and executed by an authorized official of the Contractor.

A separate cover letter including the name, address, and telephone number of the contractor, and signed by the person or persons authorized to represent the Firm should accompany the proposal submission. Firm contact information as follows should also be included in the cover letter:

1. Address and telephone number of office in, or nearest to, Diamond Bar, California.
2. Name and title of Firm's representative designated as contact.

A separate Table of Contents should be provided for Volumes I and II.

VOLUME I - TECHNICAL PROPOSAL

DO NOT INCLUDE ANY COST INFORMATION IN THE TECHNICAL VOLUME

Summary (Section A) - State overall approach to meeting the objectives and satisfying the scope of work to be performed, the sequence of activities, and a description of methodology or techniques to be used.

Program Schedule (Section B) - Provide projected milestones or benchmarks for completing the project (to include reports) within the total time allowed.

Project Organization (Section C) - Describe the proposed management structure, program monitoring procedures, and organization of the proposed team. Provide a statement detailing your approach to the project, specifically address the Firm's ability and willingness to commit and maintain staffing to successfully complete the project on the proposed schedule.

Qualifications (Section D) - Describe the technical capabilities of the Firm. Provide references of other similar studies or projects performed during the last five years demonstrating ability to successfully complete the work. Include contact name, title, and telephone number for any references listed. Provide a statement of your Firm's background and related experience in performing similar services for other governmental organizations.

Assigned Personnel (Section E) - Provide the following information about the staff to be assigned to this project:

1. List all key personnel assigned to the project by level, name and location. Provide a resume or similar statement describing the background, qualifications and experience of the lead person and all persons assigned to the project. Substitution of project manager or lead personnel will not be permitted without prior written approval of South Coast AQMD.
2. Provide a spreadsheet of the labor hours proposed for each labor category at the task level.
3. Provide a statement indicating whether 90 percent of the work will be performed within the geographical boundaries of South Coast AQMD.
4. Provide a statement of education and training programs provided to, or required of, the staff identified for participation in the project, particularly with reference to management consulting, governmental practices and procedures, and technical matters.
5. Provide a summary of your Firm's general qualifications to meet required qualifications and fulfill statement of work, including additional Firm personnel and resources beyond those who may be assigned to the project.

Subcontractors (Section F) - This project may require expertise in multiple technical areas. List any subcontractors that will be used, identifying functions to be performed by them, their related qualifications and experience and the total number of hours or percentage of time they will spend on the project.

Conflict of Interest (Section G) - Address possible conflicts of interest with other clients affected by actions performed by the Firm on behalf of South Coast AQMD. South Coast AQMD recognizes that prospective Contractors may be performing similar projects for other clients. Include a complete list of such clients for the past three (3) years with the type of work performed and the total number of years performing such tasks for each client. Although the Proposer will not be automatically disqualified by reason of work performed for such clients, South Coast AQMD reserves the right to consider the nature and extent of such work in evaluating the proposal.

Additional Data (Section H) - Provide other essential data that may assist in the evaluation of this proposal.

VOLUME II - COST PROPOSAL

Name and Address - The Cost Proposal must list the name and complete address of the Proposer in the upper left-hand corner.

Cost Proposal – South Coast AQMD anticipates awarding a fixed price contract. Cost information must be provided as listed below:

1. Detail must be provided by the following categories:
 - A. Labor – The Cost Proposal must list the fully-burdened hourly rates and the total number of hours estimated for each level of professional and

administrative staff to be used to perform the tasks required by this RFP. Costs should be estimated for each of the components of the work plan.

- B. Subcontractor Costs - List subcontractor costs and identify subcontractors by name. Itemize subcontractor charges per hour or per day.
 - C. Travel Costs - Indicate amount of travel cost and basis of estimate to include trip destination, purpose of trip, length of trip, airline fare or mileage expense, per diem costs, lodging and car rental.
 - D. Other Direct Costs -This category may include such items as postage and mailing expense, printing and reproduction costs, etc. Provide a basis of estimate for these costs.
2. It is the policy of the South Coast AQMD to receive at least as favorable pricing, warranties, conditions, benefits and terms as other customers or clients making similar purchases or receiving similar services. South Coast AQMD will give preference, where appropriate, to vendors who certify that they will provide "most favored customer" status to the South Coast AQMD. To receive preference points, Proposer shall certify that South Coast AQMD is receiving "most favored customer" pricing in the Business Status Certifications page of Volume III, Attachment B – Certifications and Representations.

VOLUME III - CERTIFICATIONS AND REPRESENTATIONS (see Attachment B to this RFP)

SECTION VIII: PROPOSAL SUBMISSION

All proposals must be submitted according to specifications set forth in the section above, and this section. Failure to adhere to these specifications may be cause for rejection of the proposal.

Signature - All proposals must be signed by an authorized representative of the Proposer.

Due Date - **All proposals are due no later than 1:00 p.m., November 6, 2020, and should be directed to:**

Procurement Unit
 South Coast Air Quality Management District
 21865 Copley Drive
 Diamond Bar, CA 91765-4178
 (909) 396-3520

Submittal - Submit original PLUS four (4) complete copies of the proposal in a sealed envelope, plainly marked in the upper left-hand corner with the name and address of the Proposer and the words "Request for Proposals #P2021-01."

Late bids/proposals will not be accepted under any circumstances.

Grounds for Rejection - A proposal may be immediately rejected if:

- It is not prepared in the format described, or
- It is signed by an individual not authorized to represent the Firm.

Modification or Withdrawal - Once submitted, proposals cannot be altered without the prior written consent of South Coast AQMD. All proposals shall constitute firm offers and may not be withdrawn for a period of ninety (90) days following the last day to accept proposals.

SECTION IX: PROPOSAL EVALUATION/CONTRACTOR SELECTION CRITERIA

- A. Proposals will be evaluated by a panel of three to five South Coast AQMD staff members familiar with the subject matter of the project. The panel shall be appointed by the Executive Officer or his designee. In addition, the evaluation panel may include such outside public sector or academic community expertise as deemed desirable by the Executive Officer. The panel will make a recommendation to the Executive Officer and/or the Governing Board of South Coast AQMD for final selection of a contractor and negotiation of a contract.
- B. Each member of the evaluation panel shall be accorded equal weight in his or her rating of proposals. The evaluation panel members shall evaluate the proposals according to the specified criteria and numerical weightings set forth below.

<u>(a) Standardized Services</u>	<u>Points</u>
Understanding of Requirement	20
Contractor Qualifications	20
Past Experience	10
Cost	<u>50</u>
TOTAL:	100

<u>(b) Additional Points</u>	
Small Business or Small Business Joint Venture	10
DVBE or DVBE Joint Venture	10
Use of DVBE or Small Business Subcontractors	7
Zero or Near-Zero Emission Vehicle Business	5
Local Business (Non-Federally Funded Projects Only)	5
Off-Peak Hours Delivery Business	2
Most Favored Customer	2

The cumulative points awarded for small business, DVBE, use of small business or DVBE subcontractors, Zero or Near-Zero emission vehicle business, local business, and off-peak hours delivery business shall not exceed 15 points. Most Favored Customer status incentive points shall be added, as applicable for a total of 17 points.

Self-Certification for Additional Points

The award of these additional points shall be contingent upon Proposer completing the Self-Certification section of Attachment B – Certifications and Representations and/or inclusion of a statement in the proposal self-certifying that Proposer qualifies for additional points as detailed above.

2. To receive additional points in the evaluation process for the categories of Small Business or Small Business Joint Venture, DVBE or DVBE Joint Venture or Local Business (for non-federally funded projects), the proposer must submit a self-certification at the time of proposal submission certifying that the proposer meets the requirements set forth in Attachments A and B. To receive points for the use of DVBE and/or Small Business subcontractors, at least 25 percent of the total contract value must be subcontracted to DVBEs and/or Small Businesses. To receive points as a Zero or Near-Zero Emission Vehicle Business, the proposer must demonstrate to the Executive Officer, or designee, that supplies and materials delivered to South Coast AQMD are delivered in vehicles that operate on clean-fuels. To receive points as a Local Business, the proposer must affirm that it has an ongoing business within the South Coast AQMD at the time of bid/proposal submittal and that 90 percent of the work related to the contract will be performed within the South Coast AQMD. Proposals for legislative representation, such as in Sacramento, California or Washington D.C. are not eligible for local business incentive points. Federally funded projects are not eligible for local business incentive points. To receive points as an Off-Peak Hours Delivery Business, the proposer must submit, at proposal submission, certification of its commitment to delivering supplies and materials to South Coast AQMD between the hours of 10:00 a.m. and 3:00 p.m. To receive points for Most Favored Customer status, the proposer must submit, at proposal submission, certification of its commitment to provide most favored customer status to the South Coast AQMD. The cumulative points awarded for Small Business, DVBE, use of Small Business or DVBE Subcontractors, Local Business, Zero or Near-Zero Emission Vehicle Business, Off-Peak Hour Delivery Business and Most Favored Customer shall not exceed 17 points.

3. The lowest cost proposal will be awarded the maximum cost points available and all other cost proposals will receive points on a prorated basis. For example, if the lowest cost proposal is \$1,000 and the maximum points available are 30 points, this proposal would receive the full 30 points. If the next lowest cost proposal is \$1,100 it would receive 27 points reflecting the fact that it is 10 percent higher than the lowest cost (90% of 30 points = 27 points).
- C. During the selection process the evaluation panel may wish to interview some proposers for clarification purposes only. No new material will be permitted at this time. Additional information provided during the bid review process is limited to clarification by the Proposer of information presented in his/her proposal, upon request by South Coast AQMD.
 - D. The Executive Officer or Governing Board may award the contract to a Proposer other than the Proposer receiving the highest rating in the event the Governing Board determines that another Proposer from among those technically qualified would provide the best value to South Coast AQMD considering cost and technical factors. The determination shall be based solely on the Evaluation Criteria contained in the Request for Proposal (RFP), on evidence provided in the proposal and on any other evidence provided during the bid review process.
 - E. Selection will be made based on the above-described criteria and rating factors. The selection will be made by and is subject to Executive Officer or Governing Board approval. Proposers may be notified of the results by letter.
 - F. The Governing Board has approved a Bid Protest Procedure which provides a process for a Bidder or prospective Bidder to submit a written protest to South Coast AQMD Procurement Manager in recognition of two types of protests: Protest Regarding Solicitation and Protest Regarding Award of a Contract. Copies of the Bid Protest Policy can be secured through a request to South Coast AQMD Procurement Department.
 - G. The Executive Officer or Governing Board may award contracts to more than one proposer if in (his or their) sole judgment the purposes of the (contract or award) would best be served by selecting multiple proposers.
 - H. If additional funds become available, the Executive Officer or Governing Board may increase the amount awarded. The Executive Officer or Governing Board may also select additional proposers for a grant or contract if additional funds become available.
 - I. Disposition of Proposals – Pursuant to South Coast AQMD's Procurement Policy and Procedure, South Coast AQMD reserves the right to reject any or all proposals. All proposals become the property of South Coast AQMD and are subject to the California Public Records Act. One copy of the proposal shall be retained for South Coast AQMD files. Additional copies and materials will be returned only if requested and at the proposer's expense.

SECTION X: FUNDING

Contractor will be reimbursed for GPS-EMU hardware and software installation after successful operation of the units and submittal of all necessary invoices to the South Coast AQMD. For on-going services such as real-time data transmittal, Contractor will be reimbursed on a monthly basis.

SECTION XI: SAMPLE CONTRACT

A sample contract to carry out the work described in this RFP is available on South Coast AQMD's website at <http://www.aqmd.gov/grants-bids> or upon request from the RFP Contact Person (Section II).

ATTACHMENT A

PARTICIPATION IN THE PROCUREMENT PROCESS

A. It is the policy of South Coast Air Quality Management District (South Coast AQMD) to ensure that all businesses including minority business enterprises, women business enterprises, disabled veteran business enterprises and small businesses have a fair and equitable opportunity to compete for and participate in South Coast AQMD contracts.

B. Definitions:

The definition of minority, women or disadvantaged business enterprises set forth below is included for purposes of determining compliance with the affirmative-steps requirement described in Paragraph G below on procurements funded in whole or in part with federal grant funds which involve the use of subcontractors. The definition provided for disabled veteran business enterprise, local business, small business enterprise, Zero or Near-Zero emission vehicle business and off-peak hours delivery business are provided for purposes of determining eligibility for point or cost considerations in the evaluation process.

1. "Women business enterprise" (WBE) as used in this policy means a business enterprise that meets all of the following criteria:
 - a. a business that is at least 51 percent owned by one or more women, or in the case of any business whose stock is publicly held, at least 51 percent of the stock is owned by one or more or women.
 - b. a business whose management and daily business operations are controlled by one or more women.
 - c. a business which is a sole proprietorship, corporation, or partnership with its primary headquarters office located in the United States, which is not a branch or subsidiary of a foreign corporation, foreign firm, or other foreign-based business.
2. "Disabled veteran" as used in this policy is a United States military, naval, or air service veteran with at least 10 percent service-connected disability who is a resident of California.
3. "Disabled veteran business enterprise" (DVBE) as used in this policy means a business enterprise that meets all of the following criteria:
 - a. is a sole proprietorship or partnership of which at least 51 percent is owned by one or more disabled veterans or, in the case of a publicly owned business, at least 51 percent of its stock is owned by one or more disabled veterans; a subsidiary which is wholly owned by a parent corporation but only if at least 51 percent of the voting stock of the parent corporation is owned by one or more disabled veterans; or a joint venture in which at least 51 percent of the joint venture's management and control and earnings are held by one or more disabled veterans.

- b. the management and control of the daily business operations are by one or more disabled veterans. The disabled veterans who exercise management and control are not required to be the same disabled veterans as the owners of the business.
 - c. is a sole proprietorship, corporation, or partnership with its primary headquarters office located in the United States, which is not a branch or subsidiary of a foreign corporation, firm, or other foreign-based business.
4. "Local business" as used in this policy means a company that has an ongoing business within geographical boundaries of South Coast AQMD at the time of bid or proposal submittal and performs 90 percent of the work related to the contract within the geographical boundaries of South Coast AQMD and satisfies the requirements of subparagraph H below. Proposals for legislative representation, such as in Sacramento, California or Washington D.C. are not eligible for local business incentive points.
5. "Small business" as used in this policy means a business that meets the following criteria:
 - a. 1) an independently owned and operated business; 2) not dominant in its field of operation; 3) together with affiliates is either:
 - A service, construction, or non-manufacturer with 100 or fewer employees, and average annual gross receipts of ten million dollars (\$10,000,000) or less over the previous three years, or
 - A manufacturer with 100 or fewer employees.
 - b. Manufacturer means a business that is both of the following:
 - 1) Primarily engaged in the chemical or mechanical transformation of raw materials or processed substances into new products.
 - 2) Classified between Codes 311000 and 339000, inclusive, of the North American Industrial Classification System (NAICS) Manual published by the United States Office of Management and Budget, 2007 edition.
6. "Joint ventures" as defined in this policy pertaining to certification means that one party to the joint venture is a DVBE or small business and owns at least 51 percent of the joint venture.
7. "Zero or Near-Zero Emission Vehicle Business" as used in this policy means a company or contractor that uses Zero or Near-Zero emission vehicles in conducting deliveries to South Coast AQMD. Zero or Near-Zero emission vehicles include vehicles powered by electric, compressed natural gas (CNG), liquefied natural gas (LNG), liquefied petroleum gas (LPG), ethanol, methanol and hydrogen and are certified to 90 percent or lower of the existing standard.

8. "Off-Peak Hours Delivery Business" as used in this policy means a company or contractor that commits to conducting deliveries to South Coast AQMD during off-peak traffic hours defined as between 10:00 a.m. and 3:00 p.m.
 9. "Benefits Incentive Business" as used in this policy means a company or contractor that provides janitorial, security guard or landscaping services to South Coast AQMD and commits to providing employee health benefits (as defined below in Section VIII.D.2.d) for full time workers with affordable deductible and co-payment terms.
 10. "Minority Business Enterprise" as used in this policy means a business that is at least 51 percent owned by one or more minority person(s), or in the case of any business whose stock is publicly held, at least 51 percent of the stock is owned by one or more or minority persons.
 - a. a business whose management and daily business operations are controlled by one or more minority persons.
 - b. a business which is a sole proprietorship, corporation, or partnership with its primary headquarters office located in the United States, which is not a branch or subsidiary of a foreign corporation, foreign firm, or other foreign-based business.
 - c. "Minority person" for purposes of this policy, means a Black American, Hispanic American, Native-American (including American Indian, Eskimo, Aleut, and Native Hawaiian), Asian-Indian (including a person whose origins are from India, Pakistan, and Bangladesh), Asian-Pacific-American (including a person whose origins are from Japan, China, the Philippines, Vietnam, Korea, Samoa, Guam, the United States Trust Territories of the Pacific, Northern Marianas, Laos, Cambodia, and Taiwan).
 11. "Most Favored Customer" as used in this policy means that the South Coast AQMD will receive at least as favorable pricing, warranties, conditions, benefits and terms as other customers or clients making similar purchases or receiving similar services.
 12. "Disadvantaged Business Enterprise" as used in this policy means a business that is an entity owned and/or controlled by a socially and economically disadvantaged individual(s) as described by Title X of the Clean Air Act Amendments of 1990 (42 U.S.C. 7601 note) (10% statute), and Public Law 102-389 (42 U.S.C. 4370d)(8% statute), respectively;
 - a Small Business Enterprise (SBE);
 - a Small Business in a Rural Area (SBRA);
 - a Labor Surplus Area Firm (LSAF); or
 - a Historically Underutilized Business (HUB) Zone Small Business Concern, or a concern under a successor program.
- C. Under Request for Quotations (RFQ), DVBEs, DVBE business joint ventures, small businesses, and small business joint ventures shall be granted a preference in an amount equal to 5 percent of the lowest cost responsive bid. Zero or Near-Zero Emission Vehicle Businesses shall be granted a preference in an amount equal to 5 percent of the lowest cost responsive bid. Off-Peak Hours Delivery Businesses shall be granted a preference in an amount equal to 2 percent of the lowest cost responsive bid. Local businesses (if the

procurement is not funded in whole or in part by federal grant funds) shall be granted a preference in an amount equal to 2 percent of the lowest cost responsive bid. Businesses offering Most Favored Customer status shall be granted a preference in an amount equal to 2 percent of the lowest cost responsive bid.

- D. Under Request for Proposals, DVBEs, DVBE joint ventures, small businesses, and small business joint ventures shall be awarded ten (10) points in the evaluation process. A non-DVBE or large business shall receive seven (7) points for subcontracting at least twenty-five (25 percent) of the total contract value to a DVBE and/or small business. Zero or Near-Zero Emission Vehicle Businesses shall be awarded five (5) points in the evaluation process. On procurements which are not funded in whole or in part by federal grant funds local businesses shall receive five (5) points. Off-Peak Hours Delivery Businesses shall be awarded two (2) points in the evaluation process. Businesses offering Most Favored Customer status shall be awarded two (2) points in the evaluation process.
- E. South Coast AQMD will ensure that discrimination in the award and performance of contracts does not occur on the basis of race, color, sex, national origin, marital status, sexual preference, creed, ancestry, medical condition, or retaliation for having filed a discrimination complaint in the performance of South Coast AQMD contractual obligations.
- F. South Coast AQMD requires Contractor to be in compliance with all state and federal laws and regulations with respect to its employees throughout the term of any awarded contract, including state minimum wage laws and OSHA requirements.
- G. When contracts are funded in whole or in part by federal funds, and if subcontracts are to be let, the Contractor must comply with the following, evidencing a good faith effort to solicit disadvantaged businesses. Contractor shall submit a certification signed by an authorized official affirming its status as a MBE or WBE, as applicable, at the time of contract execution. South Coast AQMD reserves the right to request documentation demonstrating compliance with the following good faith efforts prior to contract execution.
 - 1. Ensure Disadvantaged Business Enterprises (DBEs) are made aware of contracting opportunities to the fullest extent practicable through outreach and recruitment activities. For Indian Tribal, State and Local Government recipients, this will include placing DBEs on solicitation lists and soliciting them whenever they are potential sources.
 - 2. Make information on forthcoming opportunities available to DBEs and arrange time frames for contracts and establish delivery schedules, where the requirements permit, in a way that encourages and facilitates participation by DBEs in the competitive process. This includes, whenever possible, posting solicitations for bids or proposals for a minimum of 30 calendar days before the bid or proposal closing date.
 - 3. Consider in the contracting process whether firms competing for large contracts could subcontract with DBEs. For Indian Tribal, State and Local Government recipients, this will include dividing total requirements when economically feasible into smaller tasks or quantities to permit maximum participation by DBEs in the competitive process.
 - 4. Encourage contracting with a consortium of DBEs when a contract is too large for one of these firms to handle individually.

5. Using the services and assistance of the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.
 6. If the prime contractor awards subcontracts, require the prime contractor to take the above steps.
- H. To the extent that any conflict exists between this policy and any requirements imposed by federal and state law relating to participation in a contract by a certified MBE/WBE/DVBE as a condition of receipt of federal or state funds, the federal or state requirements shall prevail.
- I. When contracts are not funded in whole or in part by federal grant funds, a local business preference will be awarded. For such contracts that involve the purchase of commercial off-the-shelf products, local business preference will be given to suppliers or distributors of commercial off-the-shelf products who maintain an ongoing business within the geographical boundaries of South Coast AQMD. However, if the subject matter of the RFP or RFQ calls for the fabrication or manufacture of custom products, only companies performing 90 percent of the manufacturing or fabrication effort within the geographical boundaries of South Coast AQMD shall be entitled to the local business preference. Proposals for legislative representation, such as in Sacramento, California or Washington D.C. are not eligible for local business incentive points.
- J. In compliance with federal fair share requirements set forth in 40 CFR Part 33, South Coast AQMD shall establish a fair share goal annually for expenditures with federal funds covered by its procurement policy.

ATTACHMENT B



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

Business Information Request

Dear South Coast AQMD Contractor/Supplier:

South Coast Air Quality Management District (South Coast AQMD) is committed to ensuring that our contractor/supplier records are current and accurate. If your firm is selected for award of a purchase order or contract, it is imperative that the information requested herein be supplied in a timely manner to facilitate payment of invoices. In order to process your payments, we need the enclosed information regarding your account. **Please review and complete the information identified on the following pages, remember to sign all documents for our files, and return them as soon as possible to the address below:**

**Attention: Accounts Payable, Accounting Department
South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, CA 91765-4178**

If you do not return this information, we will not be able to establish you as a vendor. This will delay any payments and would still necessitate your submittal of the enclosed information to our Accounting department before payment could be initiated. Completion of this document and enclosed forms would ensure that your payments are processed timely and accurately.

If you have any questions or need assistance in completing this information, please contact Accounting at (909) 396-3777. We appreciate your cooperation in completing this necessary information.

Sincerely,

Sujata Jain
Chief Financial Officer

DH:tm

Enclosures: Business Information Request
Disadvantaged Business Certification
W-9
Form 590 Withholding Exemption Certificate
Federal Contract Debarment Certification
Campaign Contributions Disclosure
Direct Deposit Authorization

REV 8/19



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

BUSINESS INFORMATION REQUEST

Business Name	
Division of	
Subsidiary of	
Website Address	
Type of Business <i>Check One:</i>	<input type="checkbox"/> Individual <input type="checkbox"/> DBA, Name _____, County Filed in _____ <input type="checkbox"/> Corporation, ID No. _____ <input type="checkbox"/> LLC/LLP, ID No. _____ <input type="checkbox"/> Other _____

REMITTING ADDRESS INFORMATION

Address			
City/Town			
State/Province		Zip	
Phone	() - Ext	Fax	() -
Contact		Title	
E-mail Address			
Payment Name if Different			

All invoices must reference the corresponding Purchase Order Number(s)/Contract Number(s) if applicable and mailed to:

**Attention: Accounts Payable, Accounting Department
South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, CA 91765-4178**

BUSINESS STATUS CERTIFICATIONS

Federal guidance for utilization of disadvantaged business enterprises allows a vendor to be deemed a small business enterprise (SBE), minority business enterprise (MBE) or women business enterprise (WBE) if it meets the criteria below.

- is certified by the Small Business Administration or
- is certified by a state or federal agency or
- is an independent MBE(s) or WBE(s) business concern which is at least 51 percent owned and controlled by minority group member(s) who are citizens of the United States.

Statements of certification:

As a prime contractor to South Coast AQMD, _____ (name of business) will engage in good faith efforts to achieve the fair share in accordance with 40 CFR Section 33.301, and will follow the six affirmative steps listed below **for contracts or purchase orders funded in whole or in part by federal grants and contracts.**

1. Place qualified SBEs, MBEs, and WBEs on solicitation lists.
2. Assure that SBEs, MBEs, and WBEs are solicited whenever possible.
3. When economically feasible, divide total requirements into small tasks or quantities to permit greater participation by SBEs, MBEs, and WBEs.
4. Establish delivery schedules, if possible, to encourage participation by SBEs, MBEs, and WBEs.
5. Use services of Small Business Administration, Minority Business Development Agency of the Department of Commerce, and/or any agency authorized as a clearinghouse for SBEs, MBEs, and WBEs.
6. If subcontracts are to be let, take the above affirmative steps.

Self-Certification Verification: Also for use in awarding additional points, as applicable, in accordance with South Coast AQMD Procurement Policy and Procedure:

Check all that apply:

- | | |
|---|--|
| <input type="checkbox"/> Small Business Enterprise/Small Business Joint Venture | <input type="checkbox"/> Women-owned Business Enterprise |
| <input type="checkbox"/> Local business | <input type="checkbox"/> Disabled Veteran-owned Business Enterprise/DVBE Joint Venture |
| <input type="checkbox"/> Minority-owned Business Enterprise | <input type="checkbox"/> Most Favored Customer Pricing Certification |

Percent of ownership: _____ %

Name of Qualifying Owner(s): _____

State of California Public Works Contractor Registration No. _____ . MUST BE INCLUDED IF BID PROPOSAL IS FOR PUBLIC WORKS PROJECT.

I, the undersigned, hereby declare that to the best of my knowledge the above information is accurate. Upon penalty of perjury, I certify information submitted is factual.

NAME

TITLE

TELEPHONE NUMBER

DATE

Definitions

Disabled Veteran-Owned Business Enterprise means a business that meets all of the following criteria:

- is a sole proprietorship or partnership of which is at least 51 percent owned by one or more disabled veterans, or in the case of any business whose stock is publicly held, at least 51 percent of the stock is owned by one or more disabled veterans; a subsidiary which is wholly owned by a parent corporation but only if at least 51 percent of the voting stock of the parent corporation is owned by one or more disabled veterans; or a joint venture in which at least 51 percent of the joint venture's management and control and earnings are held by one or more disabled veterans.
- the management and control of the daily business operations are by one or more disabled veterans. The disabled veterans who exercise management and control are not required to be the same disabled veterans as the owners of the business.
- is a sole proprietorship, corporation, partnership, or joint venture with its primary headquarters office located in the United States and which is not a branch or subsidiary of a foreign corporation, firm, or other foreign-based business.

Joint Venture means that one party to the joint venture is a DVBE and owns at least 51 percent of the joint venture. In the case of a joint venture formed for a single project this means that DVBE will receive at least 51 percent of the project dollars.

Local Business means a business that meets all of the following criteria:

- has an ongoing business within the boundary of South Coast AQMD at the time of bid application.
- performs 90 percent of the work within South Coast AQMD's jurisdiction.

Minority-Owned Business Enterprise means a business that meets all of the following criteria:

- is at least 51 percent owned by one or more minority persons or in the case of any business whose stock is publicly held, at least 51 percent of the stock is owned by one or more minority persons.
- is a business whose management and daily business operations are controlled or owned by one or more minority person.
- is a business which is a sole proprietorship, corporation, partnership, joint venture, an association, or a cooperative with its primary headquarters office located in the United States, which is not a branch or subsidiary of a foreign corporation, foreign firm, or other foreign business.

“Minority” person means a Black American, Hispanic American, Native American (including American Indian, Eskimo, Aleut, and Native Hawaiian), Asian-Indian American (including a person whose origins are from India, Pakistan, or Bangladesh), Asian-Pacific American (including a person whose origins are from Japan, China, the Philippines, Vietnam, Korea, Samoa, Guam, the United States Trust Territories of the Pacific, Northern Marianas, Laos, Cambodia, or Taiwan).

Small Business Enterprise means a business that meets the following criteria:

- a. 1) an independently owned and operated business; 2) not dominant in its field of operation; 3) together with affiliates is either:
 - **A service, construction, or non-manufacturer with 100 or fewer employees, and average annual gross receipts of ten million dollars (\$10,000,000) or less over the previous three years, or**
 - A manufacturer with 100 or fewer employees.
- b. Manufacturer means a business that is both of the following:
 - 1) Primarily engaged in the chemical or mechanical transformation of raw materials or processed substances into new products.
 - 2) Classified between Codes 311000 to 339000, inclusive, of the North American Industrial Classification System (NAICS) Manual published by the United States Office of Management and Budget, 2007 edition.

Small Business Joint Venture means that one party to the joint venture is a Small Business and owns at least 51 percent of the joint venture. In the case of a joint venture formed for a single project this means that the Small Business will receive at least 51 percent of the project dollars.

Women-Owned Business Enterprise means a business that meets all of the following criteria:

- is at least 51 percent owned by one or more women or in the case of any business whose stock is publicly held, at least 51 percent of the stock is owned by one or more women.
- is a business whose management and daily business operations are controlled or owned by one or more women.
- is a business which is a sole proprietorship, corporation, partnership, or a joint venture, with its primary headquarters office located in the United States, which is not a branch or subsidiary of a foreign corporation, foreign firm, or other foreign business.

Most Favored Customer as used in this policy means that the South Coast AQMD will receive at least as favorable pricing, warranties, conditions, benefits and terms as other customers or clients making similar purchases or receiving similar services.

**Request for Taxpayer
Identification Number and Certification**

Give Form to the
requester. Do not
send to the IRS.

▶ Go to www.irs.gov/FormW9 for instructions and the latest information.

Print or type. See Specific Instructions on page 3.	1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.	
	2 Business name/disregarded entity name, if different from above	
	3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):
	<input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____ <small>Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.</small> <input type="checkbox"/> Other (see instructions) ▶ _____	<input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <small>(Applies to accounts maintained outside the U.S.)</small>
	5 Address (number, street, and apt. or suite no.) See instructions.	Requester's name and address (optional)
	6 City, state, and ZIP code	
	7 List account number(s) here (optional)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Social security number

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or

Employer identification number

				-							
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Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	Signature of U.S. person ▶	Date ▶
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting*, later, for further information.

Note: If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States.

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Pub. 515, *Withholding of Tax on Nonresident Aliens and Foreign Entities*).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items.

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 24% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the instructions for Part II for details),
3. The IRS tells the requester that you furnished an incorrect TIN,
4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or
5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code*, later, and the separate instructions for the Requester of Form W-9 for more information.

Also see *Special rules for partnerships*, earlier.

What is FATCA Reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code*, later, and the instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account (other than an account maintained by a foreign financial institution (FFI)), list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9. If you are providing Form W-9 to an FFI to document a joint account, each holder of the account that is a U.S. person must provide a Form W-9.

a. **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note: ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. **Sole proprietor or single-member LLC.** Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or "doing business as" (DBA) name on line 2.

c. **Partnership, LLC that is not a single-member LLC, C corporation, or S corporation.** Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

d. **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. **Disregarded entity.** For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulations section 301.7701-2(c)(2)(iii). Enter the owner's name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2, "Business name/disregarded entity name." If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

Line 3

Check the appropriate box on line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box on line 3.

IF the entity/person on line 1 is a(n) . . .	THEN check the box for . . .
• Corporation	Corporation
• Individual • Sole proprietorship, or • Single-member limited liability company (LLC) owned by an individual and disregarded for U.S. federal tax purposes.	Individual/sole proprietor or single-member LLC
• LLC treated as a partnership for U.S. federal tax purposes, • LLC that has filed Form 8832 or 2553 to be taxed as a corporation, or • LLC that is disregarded as an entity separate from its owner but the owner is another LLC that is not disregarded for U.S. federal tax purposes.	Limited liability company and enter the appropriate tax classification. (P= Partnership; C= C corporation; or S= S corporation)
• Partnership	Partnership
• Trust/estate	Trust/estate

Line 4, Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space on line 4 any code(s) that may apply to you.

Exempt payee code.

- Generally, individuals (including sole proprietors) are not exempt from backup withholding.
- Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.
- Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.
- Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

- 1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)
- 2—The United States or any of its agencies or instrumentalities
- 3—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities
- 4—A foreign government or any of its political subdivisions, agencies, or instrumentalities
- 5—A corporation
- 6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession
- 7—A futures commission merchant registered with the Commodity Futures Trading Commission
- 8—A real estate investment trust
- 9—An entity registered at all times during the tax year under the Investment Company Act of 1940
- 10—A common trust fund operated by a bank under section 584(a)
- 11—A financial institution
- 12—A middleman known in the investment community as a nominee or custodian
- 13—A trust exempt from tax under section 664 or described in section 4947

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over \$600 required to be reported and direct sales over \$5,000 ¹	Generally, exempt payees 1 through 5 ²
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

¹ See Form 1099-MISC, Miscellaneous Income, and its instructions.

² However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)

B—The United States or any of its agencies or instrumentalities

C—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)

F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

G—A real estate investment trust

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940

I—A common trust fund as defined in section 584(a)

J—A bank as defined in section 581

K—A broker

L—A trust exempt from tax under section 664 or described in section 4947(a)(1)

M—A tax exempt trust under a section 403(b) plan or section 457(g) plan

Note: You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns. If this address differs from the one the requester already has on file, write NEW at the top. If a new address is provided, there is still a chance the old address will be used until the payor changes your address in their records.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN.

If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note: See *What Name and Number To Give the Requester*, later, for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at www.SSA.gov. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at www.irs.gov/Businesses and clicking on Employer Identification Number (EIN) under Starting a Business. Go to www.irs.gov/Forms to view, download, or print Form W-7 and/or Form SS-4. Or, you can go to www.irs.gov/OrderForms to place an order and have Form W-7 and/or SS-4 mailed to you within 10 business days.

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note: Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if item 1, 4, or 5 below indicates otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code*, earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), ABLE accounts (under section 529A), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account) other than an account maintained by an FFI	The actual owner of the account or, if combined funds, the first individual on the account ¹
3. Two or more U.S. persons (joint account maintained by an FFI)	Each holder of the account
4. Custodial account of a minor (Uniform Gift to Minors Act)	The minor ²
5. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee ¹
b. So-called trust account that is not a legal or valid trust under state law	The actual owner ¹
6. Sole proprietorship or disregarded entity owned by an individual	The owner ³
7. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(c)(2)(i)(A))	The grantor ⁴

For this type of account:	Give name and EIN of:
8. Disregarded entity not owned by an individual	The owner
9. A valid trust, estate, or pension trust	Legal entity ⁴
10. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
11. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
12. Partnership or multi-member LLC	The partnership
13. A broker or registered nominee	The broker or nominee

For this type of account:	Give name and EIN of:
14. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
15. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(i)(B))	The trust

¹ List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

² Circle the minor's name and furnish the minor's SSN.

³ You must show your individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

⁴ List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships*, earlier.

*Note: The grantor also must provide a Form W-9 to trustee of trust.

Note: If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records From Identity Theft

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Pub. 5027, Identity Theft Information for Taxpayers.

Victims of identity theft who are experiencing economic harm or a systemic problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes. Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to phishing@irs.gov. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at spam@uce.gov or report them at www.ftc.gov/complaint. You can contact the FTC at www.ftc.gov/idtheft or 877-IDTHEFT (877-438-4338). If you have been the victim of identity theft, see www.IdentityTheft.gov and Pub. 5027.

Visit www.irs.gov/identitytheft to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

2020 Withholding Exemption Certificate**590**

The payee completes this form and submits it to the withholding agent. The withholding agent keeps this form with their records.

Withholding Agent Information

Name _____

Payee Information

Name _____

 SSN or ITIN FEIN CA Corp no. CA SOS file no.

Address (apt./sta., room, PO box, or PMB no.) _____

City (If you have a foreign address, see instructions.) _____

State _____ ZIP code _____

Exemption Reason**Check only one box.**

By checking the appropriate box below, the payee certifies the reason for the exemption from the California income tax withholding requirements on payment(s) made to the entity or individual.

 Individuals — Certification of Residency:

I am a resident of California and I reside at the address shown above. If I become a nonresident at any time, I will promptly notify the withholding agent. See instructions for General Information D, Definitions.

 Corporations:

The corporation has a permanent place of business in California at the address shown above or is qualified through the California Secretary of State (SOS) to do business in California. The corporation will file a California tax return. If this corporation ceases to have a permanent place of business in California or ceases to do any of the above, I will promptly notify the withholding agent. See instructions for General Information D, Definitions.

 Partnerships or Limited Liability Companies (LLCs):

The partnership or LLC has a permanent place of business in California at the address shown above or is registered with the California SOS, and is subject to the laws of California. The partnership or LLC will file a California tax return. If the partnership or LLC ceases to do any of the above, I will promptly inform the withholding agent. For withholding purposes, a limited liability partnership (LLP) is treated like any other partnership.

 Tax-Exempt Entities:

The entity is exempt from tax under California Revenue and Taxation Code (R&TC) Section 23701 _____ (insert letter) or Internal Revenue Code Section 501(c) _____ (insert number). If this entity ceases to be exempt from tax, I will promptly notify the withholding agent. Individuals cannot be tax-exempt entities.

 Insurance Companies, Individual Retirement Arrangements (IRAs), or Qualified Pension/Profit-Sharing Plans:

The entity is an insurance company, IRA, or a federally qualified pension or profit-sharing plan.

 California Trusts:

At least one trustee and one noncontingent beneficiary of the above-named trust is a California resident. The trust will file a California fiduciary tax return. If the trustee or noncontingent beneficiary becomes a nonresident at any time, I will promptly notify the withholding agent.

 Estates — Certification of Residency of Deceased Person:

I am the executor of the above-named person's estate or trust. The decedent was a California resident at the time of death. The estate will file a California fiduciary tax return.

 Nonmilitary Spouse of a Military Servicemember:

I am a nonmilitary spouse of a military servicemember and I meet the Military Spouse Residency Relief Act (MSRRA) requirements. See instructions for General Information E, MSRRA.

CERTIFICATE OF PAYEE: Payee must complete and sign below.To learn about your privacy rights, how we may use your information, and the consequences for not providing the requested information, go to ftb.ca.gov/forms and search for **1131**. To request this notice by mail, call 800.852.5711.

Under penalties of perjury, I declare that I have examined the information on this form, including accompanying schedules and statements, and to the best of my knowledge and belief, it is true, correct, and complete. I further declare under penalties of perjury that if the facts upon which this form are based change, I will promptly notify the withholding agent.

Type or print payee's name and title _____ Telephone _____

Payee's signature ► _____ Date _____

7061203

Form 590 2019

2018 Withholding Exemption Certificate**590**

The payee completes this form and submits it to the withholding agent. The withholding agent keeps this form with their records.

Withholding Agent Information

Name _____

2020 Instructions for Form 590

Withholding Exemption Certificate

References in these instructions are to the California Revenue and Taxation Code (R&TC).

General Information

California Revenue and Taxation Code (R&TC) Section 18662 requires withholding of income or franchise tax on payments of California source income made to nonresidents of California. For more information, See General Information B, Income Subject to Withholding.

Registered Domestic Partners (RDP) – For purposes of California income tax, references to a spouse, husband, or wife also refer to a California RDP unless otherwise specified. For more information on RDPs, get FTB Pub. 737, Tax Information for Registered Domestic Partners.

A Purpose

Use Form 590, Withholding Exemption Certificate, to certify an exemption from nonresident withholding.

Form 590 does not apply to payments of backup withholding. For more information, go to ftb.ca.gov and search for **backup withholding**.

Form 590 does not apply to payments for wages to employees. Wage withholding is administered by the California Employment Development Department (EDD). For more information, go to edd.ca.gov or call 888.745.3888.

Do not use Form 590 to certify an exemption from withholding if you are a **seller of California real estate**. Sellers of California real estate use Form 593, Real Estate Withholding Statement, to claim an exemption from the real estate withholding requirement.

The following are excluded from withholding and completing this form:

- The United States and any of its agencies or instrumentalities.
- A state, a possession of the United States, the District of Columbia, or any of its political subdivisions or instrumentalities.
- A foreign government or any of its political subdivisions, agencies, or instrumentalities.

B Income Subject to Withholding

Withholding is required on the following, but is not limited to:

- Payments to nonresidents for services rendered in California.
- Distributions of California source income made to domestic nonresident partners, members, and S corporation shareholders and allocations of California source income made to foreign partners and members.
- Payments to nonresidents for rents if the payments are made in the course of the withholding agent's business.
- Payments to nonresidents for royalties from activities sourced to California.

- Distributions of California source income to nonresident beneficiaries from an estate or trust.
- Endorsement payments received for services performed in California.
- Prizes and winnings received by nonresidents for contests in California.

However, withholding is optional if the total payments of California source income are \$1,500 or less during the calendar year.

For more information on withholding, get FTB Pub. 1017, Resident and Nonresident Withholding Guidelines. To get a withholding publication, see Additional Information.

C Who Certifies this Form

Form 590 is certified (completed and signed) by the payee. California residents or entities exempt from the withholding requirement should complete Form 590 and submit it to the withholding agent before payment is made. The withholding agent is then relieved of the withholding requirements if the agent relies in good faith on a completed and signed Form 590 unless notified by the Franchise Tax Board (FTB) that the form should not be relied upon.

An incomplete certificate is invalid and the withholding agent should not accept it. If the withholding agent receives an incomplete certificate, the withholding agent is required to withhold tax on payments made to the payee until a valid certificate is received. In lieu of a completed exemption certificate, the withholding agent may accept a letter from the payee as a substitute explaining why they are not subject to withholding. The letter must contain all the information required on the certificate in similar language, including the under penalty of perjury statement and the payee's taxpayer identification number (TIN).

The certification does not need to be renewed annually. The certification on Form 590 remains valid until the payee's status changes. The withholding agent must retain a copy of the certification or substitute for at least five years after the last payment to which the certification applies. The agent must provide it to the FTB upon request.

If an entertainer (or the entertainer's business entity) is paid for a performance, the entertainer's information must be provided. **Do not** submit the entertainer's agent or promoter information.

The grantor of a grantor trust shall be treated as the payee for withholding purposes. Therefore, if the payee is a grantor trust and one or more of the grantors is a nonresident, withholding is required. If all of the grantors on the trust are residents, no withholding is required. Resident grantors can check the box on Form 590 labeled "Individuals — Certification of Residency."

D Definitions

For California nonwage withholding purposes, **nonresident** includes all of the following:

- Individuals who are not residents of California.
- Corporations not qualified through the California Secretary of State (CA SOS) to do business in California or having no permanent place of business in California.
- Partnerships or limited liability companies (LLCs) with no permanent place of business in California.
- Any trust without a resident grantor, beneficiary, or trustee, or estates where the decedent was not a California resident.

Foreign refers to non-U.S.

For more information about determining resident status, get FTB Pub. 1031, Guidelines for Determining Resident Status. Military servicemembers have special rules for residency. For more information see General Information E, Military Spouse Residency Relief Act (MSRRA), and FTB Pub. 1032, Tax Information for Military Personnel.

Permanent Place of Business:

A corporation has a permanent place of business in California if it is organized and existing under the laws of California or it has qualified through the CA SOS to transact intrastate business. A corporation that has not qualified to transact intrastate business (e.g., a corporation engaged exclusively in interstate commerce) will be considered as having a permanent place of business in California only if it maintains a permanent office in California that is permanently staffed by its employees.

E Military Spouse Residency Relief Act (MSRRA)

Generally, for tax purposes you are considered to maintain your existing residence or domicile. If a military servicemember and nonmilitary spouse have the same state of domicile, the MSRRA provides:

- A spouse shall not be deemed to have lost a residence or domicile in any state solely by reason of being absent to be with the servicemember serving in compliance with military orders.
- A spouse shall not be deemed to have acquired a residence or domicile in any other state solely by reason of being there to be with the servicemember serving in compliance with military orders.

Domicile is defined as the one place:

- Where you maintain a true, fixed, and permanent home.
- To which you intend to return whenever you are absent.

A military servicemember's nonmilitary spouse is considered a nonresident for tax purposes if the servicemember and spouse have the same domicile outside of California and the spouse is in California solely to be with the servicemember who is serving in compliance with Permanent Change of Station orders.

California may require nonmilitary spouses of military servicemembers to provide proof that they meet the criteria for California personal income tax exemption as set forth in the MSRRA.

Income of a military servicemember's nonmilitary spouse for services performed in California is not California source income subject to state tax if the spouse is in California to be with the servicemember serving in compliance with military orders, and the servicemember and spouse have the same domicile in a state other than California.

For additional information or assistance in determining whether the applicant meets the MSRRA requirements, get FTB Pub. 1032.

Specific Instructions

Payee Instructions

Enter the withholding agent's name.

Enter the payee's information, including the TIN and check the appropriate TIN box.

You must provide a valid TIN as requested on this form. The following are acceptable TINs: social security number (SSN); individual taxpayer identification number (ITIN); federal employer identification number (FEIN); California corporation number (CA Corp no.); or CA SOS file number.

Private Mail Box (PMB) – Include the PMB in the address field. Write "PMB" first, then the box number. Example: 111 Main Street PMB 123.

Foreign Address – Follow the country's practice for entering the city, county, province, state, country, and postal code, as applicable, in the appropriate boxes. Do not abbreviate the country name.

Exemption Reason – Check the box that reflects the reason why the payee is exempt from the California income tax withholding requirement.

Withholding Agent Instructions

Do not send this form to the FTB. The certification on Form 590 remains valid until the payee's status changes. The withholding agent must retain a copy of the certificate or substitute for at least five years after the last payment to which the certificate applies. The agent must provide it to the FTB upon request.

The payee must notify the withholding agent if any of the following situations occur:

- The individual payee becomes a nonresident.
- The corporation ceases to have a permanent place of business in California or ceases to be qualified to do business in California.
- The partnership ceases to have a permanent place of business in California.
- The LLC ceases to have a permanent place of business in California.
- The tax-exempt entity loses its tax-exempt status.

If any of these situations occur, then withholding may be required. For more information, get Form 592, Resident and Nonresident Withholding Statement, Form 592-B, Resident and Nonresident Withholding Tax Statement, Form 592-PTE, Pass-Through Entity Annual Withholding Return, Form 592-Q Payment Voucher for Pass-Through Entity Withholding, and Form 592-V, Payment Voucher for Resident or Nonresident Withholding.

Additional Information

Website: For more information, go to ftb.ca.gov and search for **nonwage**.

MyFTB offers secure online tax account information and services. For more information, go to ftb.ca.gov and login or register for MyFTB.

Telephone: 888.792.4800 or 916.845.4800, Withholding Services and Compliance phone service

Fax: 916.845.9512

Mail: WITHHOLDING SERVICES AND COMPLIANCE MS F182
FRANCHISE TAX BOARD
PO BOX 942867
SACRAMENTO CA 94267-0651

For questions unrelated to withholding, or to download, view, and print California tax

forms and publications, or to access the TTY/TDD numbers, see the Internet and Telephone Assistance section.

Internet and Telephone Assistance

Website: ftb.ca.gov

Telephone: 800.852.5711 from within the United States
916.845.6500 from outside the United States

TTY/TDD: 800.822.6268 for persons with hearing or speech disability
711 or 800.735.2929 California relay service

Asistencia Por Internet y Teléfono

Sitio web: ftb.ca.gov

Teléfono: 800.852.5711 dentro de los Estados Unidos
916.845.6500 fuera de los Estados Unidos

TTY/TDD: 800.822.6268 para personas con discapacidades auditivas o de habla
711 o 800.735.2929 servicio de relevo de California

Certification Regarding Debarment, Suspension, and Other Responsibility Matters

The prospective participant certifies to the best of its knowledge and belief that it and the principals:

- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- (b) Have not within a three year period preceding this proposal been convicted of or had a civil judgement rendered against them or commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction: violation of Federal or State antitrust statute or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- (c) Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (b) of this certification; and
- (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

I understand that a false statement on this certification may be grounds for rejection of this proposal or termination of the award. In addition, under 18 USC Sec. 1001, a false statement may result in a fine of up to \$10,000 or imprisonment for up to 5 years, or both.

Typed Name & Title of Authorized Representative

Signature of Authorized Representative Date

I am unable to certify to the above statements. My explanation is attached.



CAMPAIGN CONTRIBUTIONS DISCLOSURE

In accordance with California law, bidders and contracting parties are required to disclose, at the time the application is filed, information relating to any campaign contributions made to South Coast Air Quality Management District (South Coast AQMD) Board Members or members/alternates of the MSRC, including: the name of the party making the contribution (which includes any parent, subsidiary or otherwise related business entity, as defined below), the amount of the contribution, and the date the contribution was made. 2 C.C.R. §18438.8(b).

California law prohibits a party, or an agent, from making campaign contributions to South Coast AQMD Governing Board Members or members/alternates of the Mobile Source Air Pollution Reduction Review Committee (MSRC) of more than \$250 while their contract or permit is pending before South Coast AQMD; and further prohibits a campaign contribution from being made for three (3) months following the date of the final decision by the Governing Board or the MSRC on a donor's contract or permit. Gov't Code §84308(d). For purposes of reaching the \$250 limit, the campaign contributions of the bidder or contractor plus contributions by its parents, affiliates, and related companies of the contractor or bidder are added together. 2 C.C.R. §18438.5.

In addition, South Coast AQMD Board Members or members/alternates of the MSRC must abstain from voting on a contract or permit if they have received a campaign contribution from a party or participant to the proceeding, or agent, totaling more than \$250 in the 12-month period prior to the consideration of the item by the Governing Board or the MSRC. Gov't Code §84308(c).

The list of current South Coast AQMD Governing Board Members can be found at South Coast AQMD website (www.aqmd.gov). The list of current MSRC members/alternates can be found at the MSRC website (<http://www.cleantransportationfunding.org>).

SECTION I.

Contractor (Legal Name): _____

DBA, Name _____, County Filed in _____ Corporation, ID No. _____ LLC/LLP, ID No. _____
--

List any parent, subsidiaries, or otherwise affiliated business entities of Contractor:
(See definition below).

SECTION II.

Has Contractor and/or any parent, subsidiary, or affiliated company, or agent thereof, made a campaign contribution(s) totaling \$250 or more in the aggregate to a current member of the South Coast Air Quality Management Governing Board or member/alternate of the MSRC in the 12 months preceding the date of execution of this disclosure?

Yes No **If YES, complete Section II below and then sign and date the form. If NO, sign and date below. Include this form with your submittal.**

Campaign Contributions Disclosure, continued:

Name of Contributor _____

Governing Board Member or MSRC Member/Alternate	Amount of Contribution	Date of Contribution
---	------------------------	----------------------

Name of Contributor _____

Governing Board Member or MSRC Member/Alternate	Amount of Contribution	Date of Contribution
---	------------------------	----------------------

Name of Contributor _____

Governing Board Member or MSRC Member/Alternate	Amount of Contribution	Date of Contribution
---	------------------------	----------------------

Name of Contributor _____

Governing Board Member or MSRC Member/Alternate	Amount of Contribution	Date of Contribution
---	------------------------	----------------------

I declare the foregoing disclosures to be true and correct.

By: _____

Title: _____

Date: _____

DEFINITIONS	
Parent, Subsidiary, or Otherwise Related Business Entity (2 Cal. Code of Regs., §18703.1(d).)	
(1)	Parent subsidiary. A parent subsidiary relationship exists when one corporation directly or indirectly owns shares possessing more than 50 percent of the voting power of another corporation.
(2)	Otherwise related business entity. Business entities, including corporations, partnerships, joint ventures and any other organizations and enterprises operated for profit, which do not have a parent subsidiary relationship are otherwise related if any one of the following three tests is met: <ul style="list-style-type: none">(A) One business entity has a controlling ownership interest in the other business entity.(B) There is shared management and control between the entities. In determining whether there is shared management and control, consideration should be given to the following factors:<ul style="list-style-type: none">(i) The same person or substantially the same person owns and manages the two entities;(ii) There are common or commingled funds or assets;(iii) The business entities share the use of the same offices or employees, or otherwise share activities, resources or personnel on a regular basis;(iv) There is otherwise a regular and close working relationship between the entities; or(C) A controlling owner (50% or greater interest as a shareholder or as a general partner) in one entity also is a controlling owner in the other entity.



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

Direct Deposit Authorization

STEP 1: Please check all the appropriate boxes

- | | |
|--|--|
| <input type="checkbox"/> Individual (Employee, Governing Board Member) | <input type="checkbox"/> New Request |
| <input type="checkbox"/> Vendor/Contractor | <input type="checkbox"/> Cancel Direct Deposit |
| <input type="checkbox"/> Changed Information | |

STEP 2: Payee Information

Last Name		First Name		Middle Initial	Title
Vendor/Contractor Business Name (if applicable)					
Address				Apartment or P.O. Box Number	
City		State	Zip	Country	
Taxpayer ID Number		Telephone Number		Email Address	

Authorization

- I authorize South Coast Air Quality Management District (South Coast AQMD) to direct deposit funds to my account in the financial institution as indicated below. I understand that the authorization may be rejected or discontinued by South Coast AQMD at any time. If any of the above information changes, I will promptly complete a new authorization agreement. If the direct deposit is not stopped before closing an account, funds payable to me will be returned to South Coast AQMD for distribution. This will delay my payment.
- This authorization remains in effect until South Coast AQMD receives written notification of changes or cancellation from you.
- I hereby release and hold harmless South Coast AQMD for any claims or liability to pay for any losses or costs related to insufficient fund transactions that result from failure within the Automated Clearing House network to correctly and timely deposit monies into my account.

STEP 3:

You must verify that your bank is a member of an Automated Clearing House (ACH). Failure to do so could delay the processing of your payment. You must attach a voided check or have your bank complete the bank information and the account holder must sign below.

To be Completed by your Bank

Staple Voided Check Here	Name of Bank/Institution				
	Account Holder Name(s)				
	<input type="checkbox"/> Saving <input type="checkbox"/> Checking		Account Number	Routing Number	
	Bank Representative Printed Name		Bank Representative Signature		Date
	ACCOUNT HOLDER SIGNATURE:				Date

For South Coast AQMD Use Only

Input By _____

Date _____

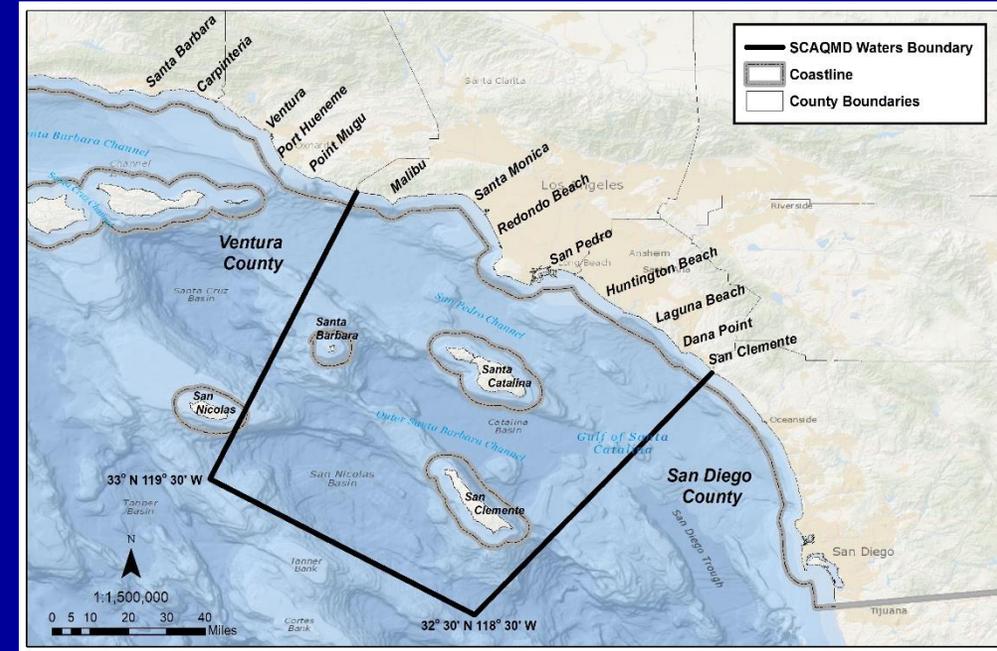
Agenda Item #3

Walter Shen

Issue RFP for Qualified Installers of
Global Positioning Devices (GPS) for
Marine Vessel Projects

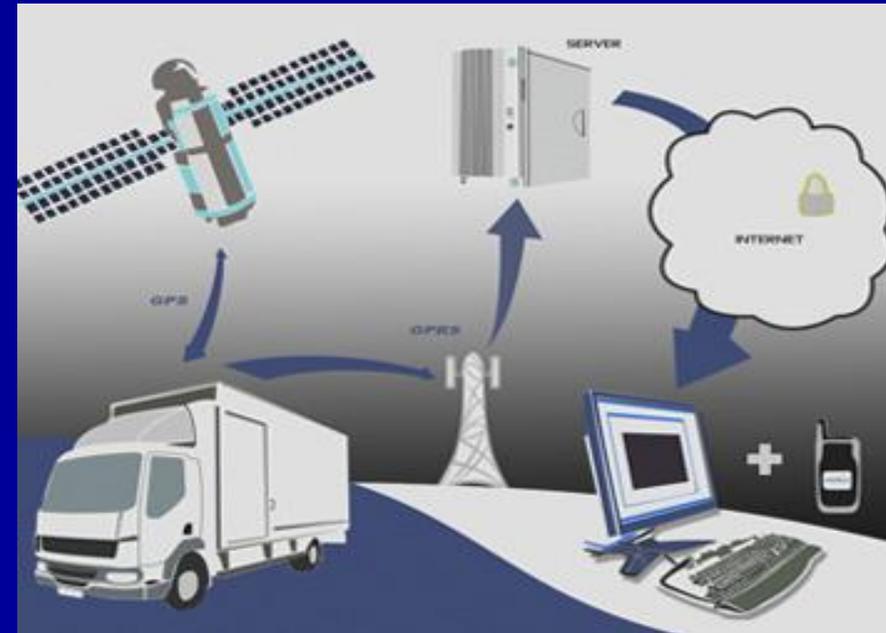
Background

- Carl Moyer Program requires marine vessels operate at least 75% of the time in South Coast AQMD waters
- Contract requires marine vessel project awardees install GPS devices to transmit geolocation and operational data
- GPS data will be used to verify compliance with the 75% operational requirement
- May expand GPS use for locomotives and on-road heavy-duty trucks



Proposal

- Issue RFP #P2021-01 to solicit bids from vendors to purchase and install GPS equipped with electronic monitoring units (EMUs) for marine vessels
- Qualified vendors must have GPS-EMU systems that collect data as specified in the RFP and provide recording and data transmittal services
- GPS-EMU systems will provide added enforcement capability and real-time data



Proposal (cont'd)

- Issuance of a new solicitation is necessary to find a contractor with competitive pricing and capable technology
- Proposed schedule of events:

Event	Date
RFP Release	August 7, 2020
Proposals Due	November 6, 2020
Anticipated Board Approval	February 5, 2021

- Funding to be provided from the Carl Moyer Program Fund (32)

Recommended Action

Issue RFP #P2021-01 to solicit bids from qualified vendors for the purchase and installation of GPS equipped with EMUs for tracking and monitoring marine vessels funded under South Coast AQMD's Carl Moyer Program

Technology Committee Agenda #4

BOARD MEETING DATE: August 7, 2020

AGENDA NO.

PROPOSAL: Execute Contract to Investigate Effects of Ethanol-Gasoline Fuel Blend from Light-Duty Vehicles on Criteria Emissions and Secondary Organic Aerosol Formation

SYNOPSIS: In May 2019, the U.S. EPA approved the use of gasoline blended with up to 15 percent ethanol by volume (E15) for year-round use to support renewable fuel standards and energy independence. Past studies have shown that light-duty gasoline vehicles are significant sources of NO_x, VOC and other precursor gas emissions, which together contribute to secondary organic aerosol (SOA) formation and higher PM_{2.5} in the South Coast Air Basin. CARB, along with the ethanol industry and the University of California, Riverside (UCR)/CE-CERT, has proposed a fuel study measuring criteria and toxic pollutant emissions from 20 gasoline vehicles using E15. This action is to execute a contract with UCR/CE-CERT to perform investigation of E15 gasoline fuel effects on criteria and toxic pollutant emissions and SOA formation from light-duty vehicles in amount not to exceed \$200,000 from the Clean Fuels Program Fund (31).

COMMITTEE: Technology, June 19, 2020, Recommended for Approval

RECOMMENDED ACTION:

Authorized the Chairman to execute a contract with UCR/CE-CERT to perform an investigation study of E15 gasoline fuel effects on criteria and toxic pollutant emissions and SOA formation from light-duty vehicles in amount not to exceed \$200,000 from the Clean Fuels Program Fund (31).

Wayne Natri
Executive Officer

Background

In May 2019, the U.S. EPA approved the use of gasoline blended with up to 15 percent ethanol by volume (E15) for year-round use to help regulated parties comply with the Federal Renewable Fuels Standard (RFS) and California's Low Carbon Fuels Standard (LCFS). Higher levels of ethanol in gasoline would also reduce petroleum reliance and has the potential to reduce GHGs and criteria pollutant emissions from refineries. Currently, gasoline in California contains up to 10 percent ethanol by volume (E10).

The 2016 AQMP estimates gasoline contributes to over 45 percent of total energy consumed in the South Coast Air Basin (Basin), and the emissions inventory reflects that light-duty gasoline vehicles are the fourth highest category of NOx emissions and the second highest category of VOC emissions. Previous work has shown the potential for emission reductions with higher ethanol blends, but results are inconsistent with lower ethanol blends such as E15. In a 2019 CARB Staff Concept Paper, the gasoline predictive model estimates higher NOx emissions from E15 based on data from existing studies. The 2016 AQMP also identified that the precursor gas emissions, such as volatile and semi-volatile organic compounds, NOx, CO and PM emitted from gasoline vehicles, together contributed to higher PM2.5 concentrations in the Basin. The introduction of a new gasoline blend will likely have important implications in the air quality of the Basin and UCR/CE-CERT's evaluation of the fuel impacts on criteria emissions and SOA from gasoline vehicles is an important step in understanding air quality in our region.

Proposal

CARB, Renewable Fuels Association (RFA), Growth Energy and UCR/CE-CERT have partnered together and are proposing to evaluate criteria and toxic pollutant emissions from 20 gasoline vehicles of different model years, emission standards, manufacturers and engine technology on both E10 and E15 fuels. Triplicate testing will be conducted using U.S. EPA's Federal Test Procedure-75 typically used for passenger cars. Emission measurements will include regulated pollutants, fuel economy, carbonyl compounds and VOCs. CE-CERT proposes to expand the scope and add in-depth characterization of the SOA forming potential from a subset of ten vehicles that best represent vehicle populations in the Basin. Both primary and secondary aerosols will be characterized in each experiment.

Sole Source Justification

Section VIII.B.2 of the Procurement Policy and Procedure identifies four major provisions under which a sole source award may be justified. This request for sole source award is made under provision B.2.d.: Other circumstances exist which in the determination of the Executive Officer require such waiver in the best interest of the South Coast AQMD. Specifically, these circumstances are B.2.d.(1): Project involving cost-sharing by multiple sponsors; and B.2.d.(8): Research and development efforts with educational institutions or nonprofit organizations. The proposed project will

include in-kind contributions and cost-share by CARB, RFA and Growth Energy. UCR is also an educational institution and CE-CERT is their research center with multidisciplinary resources to engage in diverse environmental and transportation research programs.

Benefits to South Coast AQMD

The proposed E15 fuel study will help to better understand the air quality and public health impact of the new fuel formulation on light-duty vehicles, which are significant contributors to the emissions in the Basin. Projects to assess emissions of light-duty vehicles are included in the *Technology Advancement Office Clean Fuels Program 2020 Plan Update* under the category of “Fuel/Emissions Studies”.

Resource Impacts

The total estimated cost for the proposed project is \$1,300,000, of which South Coast AQMD’s proposed cost-share will not exceed \$200,000 from the Clean Fuels Program Fund (31). Proposed cost-sharing is summarized below:

Project Partner	Cost-Share	Percent
CARB	\$500,000	39
RFA/Growth Energy	\$600,000	46
South Coast AQMD <i>(requested)</i>	\$200,000	15
Total Project Cost	\$1,300,000	100

Sufficient funds are available in the Clean Fuels Program Fund (31) for this proposed project. The Clean Fuels Program Fund (31) is established as a special revenue fund resulting from the state mandated Clean Fuels Program. 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.

Agenda Item #4

Sam Cao

Execute Contract to Investigate Effects of Ethanol-Gasoline Fuel Blend on Criteria Emissions and Secondary Organic Aerosol Formation

Background

- 2016 AQMP – Gasoline Engines
 - 45% energy consumption
 - Significant source of NOx and VOC emissions
- In May 2019, U.S. EPA approved E15 for year-round use
- Past studies show emissions reduction potential for higher ethanol blends but mixed trends for lower blends
- 2019 CARB concept paper predicts higher NOx emissions for E15
- Lower Secondary Organic Aerosols (SOA) formation (lower PM2.5) potential with higher ethanol blends



Source: StarTribune (2018)

Proposal

- University of California, Riverside (UCR)/ CE-CERT will assess tailpipe emissions of E15
 - Partnership with CARB, Renewable Fuels Association (RFA) and Growth Energy
 - 20 gasoline vehicles on E10 and E15 fuels tested on chassis dynamometer
 - Regulated and unregulated gaseous and particulate emissions
- Project scope to include characterization of SOA formation potential on subset of 10 vehicles



Proposed Project Cost-Share

Funding Source	Funding Amount	Percent
CARB	\$500,000	39
RFA/Growth Energy	\$600,000	46
South Coast AQMD <i>(requested)</i>	\$200,000	15
Total	\$1,300,000	100

Recommended Action

Execute a contract with UCR/CE-CERT to perform an investigation study of E15 gasoline fuel effects on criteria and toxic emissions and SOA formation from light-duty vehicles in amount not to exceed \$200,000 from Clean Fuels Program Fund (31)

Technology Committee Agenda #5

BOARD MEETING DATE: August 7, 2020 AGENDA NO.

PROPOSAL: California Fuel Cell Partnership Executive Board Meeting
Agenda and Activity Update

SYNOPSIS: This report provides the California Fuel Cell Partnership
Executive Board Agenda for the meeting held May 19, 2020
and provides the Activity Update for the fourth quarter of
2019 and first quarter of 2020.

COMMITTEE: Technology, June 19, 2020, Reviewed

RECOMMENDED ACTION:
Receive and file.

Wayne Nasti
Executive Officer

MMM:NB:JI:LHM

Background

The California Fuel Cell Partnership (CaFCP) was initiated in 1999 to accelerate response to CARB's Zero Emission Vehicle (ZEV) regulations. The AQMP and the Technology Advancement Office Clean Fuels Program 2020 Plan Update have identified fuel cells for on- and off-road applications, especially medium- and heavy-duty vehicles, as well as hydrogen technologies and infrastructure, as a core technology for attaining and maintaining cleaner air quality. Because of the alignment of South Coast AQMD and CaFCP goals for accelerated fuel cell vehicle commercialization, the Board accepted the CaFCP's formal invitation to join as a full member in March 2000.

Each CaFCP Executive Member has a representative on the Executive Board. Current Executive Members include:

- Seven automotive manufacturers (General Motors, Toyota, Daimler, Honda, Hyundai, Nissan and Nikola Motor Co.);
- Seven industry stakeholders (Air Liquide, Anglo American, Cummins, Energy Independence Now, Iwatani, Shell and Chevron);
- Three government agencies (South Coast AQMD, CARB and CEC); and

- The Governor’s Office of Economic Development (GO-Biz).

There are also currently 35 Full and Associate Members, with commensurate benefits and voting rights. These members can be viewed on the CaFCP website (<https://cafcp.org/members>).

The CaFCP activities planned for 2020 include:

- Develop the necessary infrastructure and processes to support expanded vehicle rollout for the first 200 hydrogen stations and longer-term exponential growth to reach 1,000 stations and related customer interface tools;
- Provide forums and opportunities for members to advance group collaboration and progress within CaFCP and among an expanding stakeholder base, including national coordination; and
- Reach target markets, audiences and communities to educate, inform and promote hydrogen and fuel cell vehicles and accelerate greater commercial adoption.

The recent activities for 2020 include:

- Publication of the Hydrogen Council report, with data collection and analysis by McKinsey & Company, entitled “Path to Hydrogen Competitiveness–A Cost Perspective,”¹ and “Roadmap to a US Hydrogen Economy,”² which described the anticipated cost reductions that enhance the accelerated deployment of fuel cell electric trucks; and
- Conducting the monthly teleconference of the HD FCET Task Force, providing a forum for members to learn more about funding opportunities and proposed regulations.

The next CaFCP Executive Board meeting is scheduled for October 7, 2020 in Sacramento. Additional information about the CaFCP can be found at <https://cafcp.org>.

Attachments

- 1) CaFCP May 19, 2020 Executive Board Meeting Agenda
- 2) CaFCP Activity Updates for 4th Quarter 2019 and 1st Quarter 2020

¹<https://hydrogencouncil.com/en/path-to-hydrogen-competitiveness-a-cost-perspective/>

²<https://cafcp.org/sites/default/files/Road%2BMap%2Bto%2Ba%2BUS%2BHydrogen%2BEconomy%2BFull%2BReport.pdf>

Attachment 1

- Letter from CaFCP Chair Sandra Berg regarding May 19, 2020 Executive Board Meeting
- CaFCP May 19, 2020 Executive Board Meeting Agenda
- Decision Item – New Member Proposals for Consideration at May 19, 2020 Meeting
- Decision Item – Phoenix Project for Consideration at May 19, 2020 Meeting

May 13, 2020

Dear California Fuel Cell Partnership Board Members!

I am looking forward to welcoming you to our virtual 2020 Spring Board Meeting, Tuesday, May 19th. I confess, I am disappointed we will not see each other in person. The value of spending our traditional day sharing ideas, acknowledging our accomplishments and debating the issues that challenge the success of hydrogen and fuel cells to accomplish our common goal of electrification will not be the same with a 3 hour virtual meeting. Nevertheless, as the saying goes....*the show must go on.*

I know this Board is up for the added challenge and I can assure you Bill along with his dynamic CaFCP team plus our dedicated member committees have been working tirelessly on the organization's priorities as laid out by the Board last October. It has been inspiring to join this amazing group of people who are single minded in the quest of making a difference with hydrogen & fuel cells in our battle to end climate change. Our Board meeting reflects their efforts. It will be fast paced, full of content and at the end of the day we need your guidance and aligned direction to meet the vision of electrification with hydrogen and fuel cells.

Two short months ago we would have all agreed electrification of energy and transportation is a huge transformation and monumental task. Now we will tackle this task while recovering from a pandemic and in real time figuring out the social and economic consequences. Thinking about this added layer of complexity and frankly how it exponentially compounds our challenge, I was reminded of the iconic dance team of Fred Astaire and Ginger Rogers and the famous saying..... *'Sure Fred Astaire was great, but don't forget that Ginger Rogers did everything he did...backwards and in high heels.'*¹

I'll leave you with the thought CaFCP is the Fred Astaire of electrification with hydrogen and fuel cells and now we have to add to our many talents mastering the art of dancing backwards and in high heels. A challenge.... I know *WE* are up for!

Stay safe and be well! See you on the 19th at our new virtual meeting.

Sandy

Sandra Berg, CaFCP Chair
CARB Board Member

¹ A bit of trivia....Ginger Roger did not author this saying, nor did she believe her role was more difficult. She credited cartoonist Bob Thaves' who in his 'Frank and Ernest' series Frank and Ernest are gazing at a billboard announcing a Fred Astaire Film Festival with that caption. The cartoon appeared in a LA newspaper.

**California Fuel Cell Partnership
Spring Board of Director Meeting**

May 19, 2020 via GoToWebinar
9:30am – 12:30pm PT

Agenda

Welcome - Bill Elrick and Sandy Berg

- Welcome – Bill Elrick
- Self-Introductions: Name & Company Affiliation
 - Share one observation, gratitude or something new as the result of sheltering-in.
 - Rules of Engagement via GoToWebinar for Board Members and the Public
- Meeting Framework – Sandy Berg
 - Making Lemonade....Who has the Sugar?
 - Review meeting Agenda, share Board meeting expectations & outcomes

CaFCP Formal Business Meeting Session – Bill Elrick and CaFCP Team

- CaFCP Project/Technical Update/New Members
 - Board Discussion & Decisions
- Public Comments
- Close Formal Session

Board Presentation, Discussion and Path Forward....All Eyes on Fuel Cell Partnership's Next 20 Years

- **Inspired Past & Passionate Present.....**
 - ...building on a solid foundation for Hydrogen & Fuel Cell Success – Sandy Berg
- **Connecting with FCP Strong Roots - Matt Forest & Gia Vacin**
 - Member Presentation: Phoenix Project process & findings; Member and Staff Feedback; Organization Vision, Mission & Principles; Strategic Objectives and Activities.
 - Board Q&A and Feedback
- **Blue Print to Develop FCP Expansion Plan – Sandy Berg & Phoenix Project Team**
 - Board Q&A and Feedback

Board Direction & Action Items – Bill Elrick, Sandy Berg and Board of Directors

Open Public Comments

Closing Thoughts & Thank YOU!

Decision Item
New Member Proposals
May 19th, 2020 Executive Board Meeting

BACKGROUND:

To increase CaFCP’s capacity to successfully support hydrogen fuel cell vehicle and hydrogen infrastructure commercialization, the CaFCP Steering Team propose the following stakeholders as new members of CaFCP. Each proposed entity has experience in hydrogen infrastructure development, adds unique value to CaFCP, and provides new insights and perspectives to advance progress in commercialization activities in California and beyond.

With each member proposal, a recommended membership sector, tier and brief description is presented.

Entity	Sector	Tier
Chevron <i>- California-based multinational energy corporation, former CaFCP member and HRS operator, with traditional fueling experience from production to downstream retail operations.</i>	Infrastructure	Executive
Toyota Tsusho America <i>- A member of the Toyota group that supplies raw material, logistics & procurement, in addition to development of HRS in Japan, with plans for California and U.S. deployments.</i>	Infrastructure	Full

IMPACT:

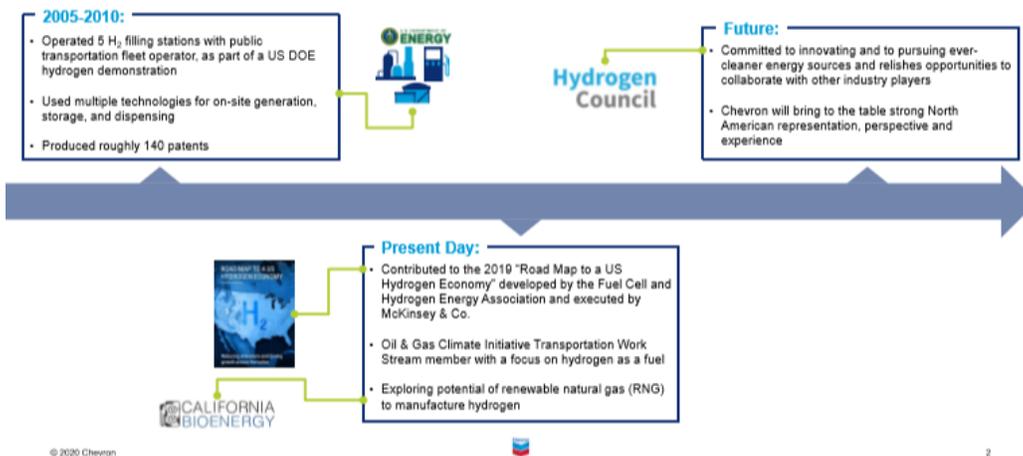
As members, each organization would have a valuable voice within CaFCP and help shape the commercial rollout and scaled deployment planning activities, especially in regard to hydrogen fueling infrastructure. Adding these two companies will increase CaFCP membership contributions revenue by \$100,000 per year.

RECOMMENDATION:

Invite Chevron to join the CaFCP board as an Executive member, and Toyota Tsusho America to join CaFCP as a Full member.

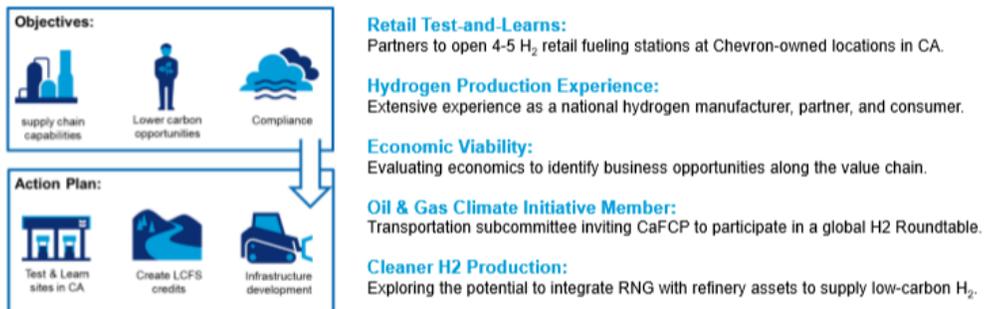


Chevron's Contributions to the Advancement of Hydrogen Past, Present and Future



Current Hydrogen Efforts

Leveraging a partnership approach to enable H₂ market



Chevron believes that hydrogen has a potential role in a lower carbon future in many facets: as a transportation fuel, an industrial feedstock, and as an energy storage medium for use in heat and power.



1977 W 190th Street, suite 200
Torrance, CA 90504

March 19, 2020

Bill Elrick, Executive Director
California Fuel Cell Partnership
3300 Industrial Blvd, Suite 1000
West Sacramento, California 95691

Dear Mr. Elrick:

Toyota Tsusho America, Inc. (TAI) as well as our head office in Japan have been actively working towards contributing the development of hydrogen society in global scale. As family company of Toyota Motor Corporation (Japan) and Toyota Motor North America (TMNA), we not only support their automobile manufacture activities with various services such as logistic, raw material supply, sub-assembly and other procurement assistance, but develop infrastructure implementations for fuel cell electric vehicle (FCEV). We operate 8 hydrogen stations and several related demonstrations in Japan and would like to extend the experience to the U.S market to support its market expansion.

TAI is interested in becoming a full-level membership with the California Fuel Cell Partnership (CaFCP) to further advance our hydrogen infrastructure and FCEV rollout goals and support CaFCP's effort more extensively. With our membership participation, we believe that there will be a mutually beneficial synergy created between CaFCP, participating member companies and us which we hope accelerate hydrogen society expansion throughout the state.

Our hydrogen value chain business concept with unique company division strength should lead us establish the foundation of economically viable and sustainable model. Our goal is to create hydrogen demand and supply at the same time with continuous cost reduction effort. We believe that it is imperative to achieve such goal with collaboration with CaFCP and its member companies particularly in this initial market expansion phase.

Sincerely yours,

A handwritten signature in black ink, appearing to read 'Toru Sugiura', with a horizontal line extending to the right.

Toru Sugiura MBA, CPM
Toyota Tsusho America, Inc.
Senior Manager
Corporate strategy & New Business Development



Toyota Tsusho America, Inc. Hydrogen Value Chain Project Update

Toyota Tsusho America, Inc.
3/19/2020

TOYOTA TSUSHO AMERICA, INC.



Toyota Tsusho America, Inc. (TAI)

Corporate Profile (As of March, 2020)

- 1) Headquarters 805 Third Avenue, 17th Floor
New York, NY 10022
- 2) Capital US\$ 90,000,000.-
- 3) Share holder Toyota Tsusho Corporation (100%)
- 4) Employees <Standalone> 1,000 (incl. 100 expatriate employees)
<Consolidated> 3,800 (incl. 140 expatriate employees)
- 5) Business Description Domestic wholesale, exporting and importing products, processing vehicle parts and accessories, insurance agencies, etc.
- 6) Locations
 - (Domestic) 25 locations including New York (Headquarters) and Kentucky. 27 subsidiaries and 11 equity companies
 - (Outside U.S.) 1 Costa Rica branch, 10 subsidiaries (3 in Canada; 7 in Mexico) , 7 equity companies (6 in Mexico; 1 in Venezuela)



By the way...

Our headquarter (Japan)

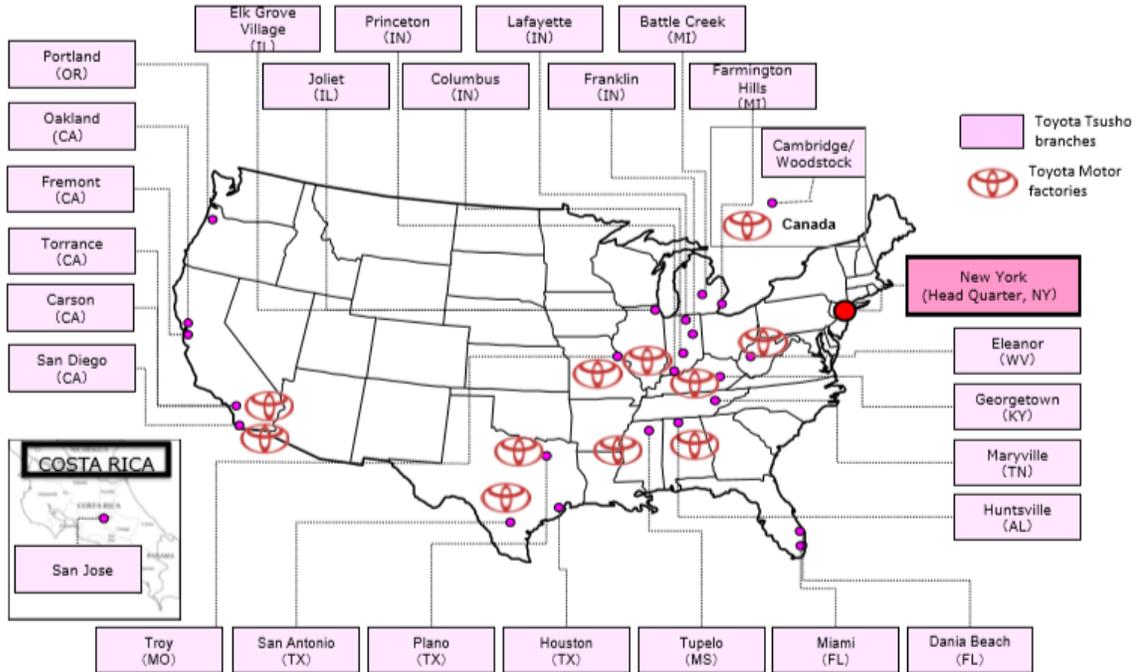
"Toyota Tsusho Corporation "

- Established in 1948
- Employee: 58,565 (as of 11/2019)
(all affiliated combined)
- Sales (2018): \$61 billion (USD)
- One of 16 Toyota group companies
- 7 divisions
(Metal, Machine & Energy, Global Logistic, Chemical & Electronics, Automobile, Food & Life Style, Africa)
- Toyota Motor owns 22% of stock.

TOYOTA TSUSHO AMERICA, INC.

1

Our branches in North America (As of March, 2020)



As family company of Toyota, we are located and work closely with Toyota Motor North America

Hydrogen Experience in Japan

Toyota Motor Kyushu

DEMO H2 Production from Solar Power + FC Forklift



- A Biz. Model validation
- C High-cost facilities, Operation

@Tomamae, Hokkaido

DEMO H2 Production from Wind power + Transportation

- A Biz. Model validation
- C High-cost Transportation

Fukuoka City

DEMO H2 production from Biogas



- A Establish Technology - World first
- C Demand creation

Commercialized: H2 Refueling Station (70MPa)

@Aichi & Tokyo



2 stationary stations + 6 mobile stations

- A : Aim
- C : Challenge

Validating various path ways of CO2 free Hydrogen Value chain (Produce ~ Utilization)

➔ We plan to use our Japan experience for the U.S. market

Key Word

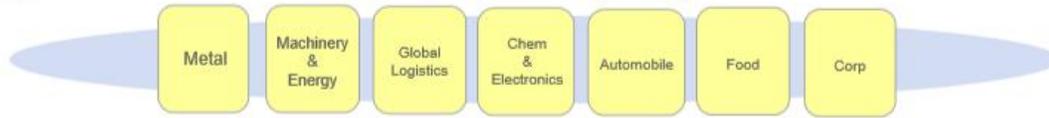
Electrification

IT & Digital Transformation

Environment

Who:

Cross Function & Synergy



What:

Value Chain



Where (area):

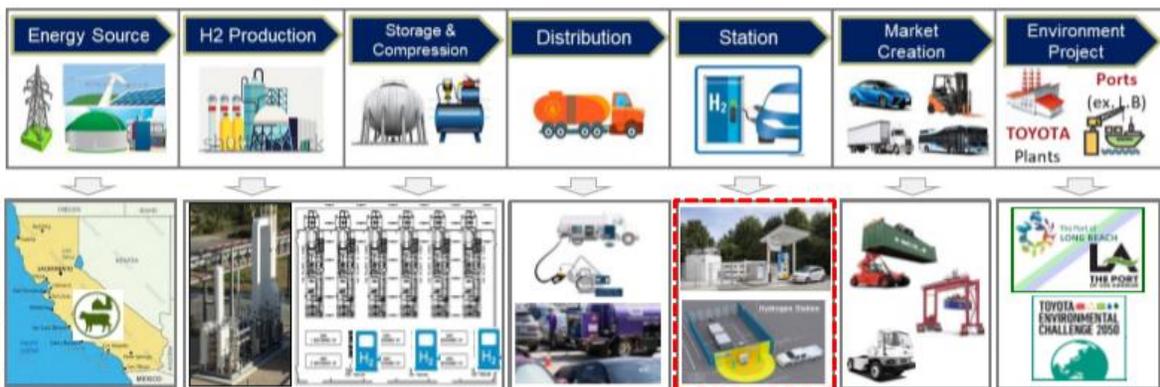
Specific Market (Commercial & Industrial)



Enhance TAI's core competence and corporate value

Toyota Tsusho: Hydrogen Value Chain Concept and Progress

Value Chain Synergy Concept
Progress (Specific Activity)



Renewable Natural Gas (RNG)
Development in
Central California

Decentralized Hydrogen Production
with Onsite Station for Trucks:
Under Technical Feasibility Study

Mobile Refueler /
Distribution Truck
Development

• Conventional Stations
(w/CEC Grant)
• No-Compressor Station
(Newly Developing)

Port Equipment
Electrification
Demonstration
(Diesel to Fuel Cell)

• Clean Air Action Plan
(POLA/POLB)
• Toyota Environmental
Challenge 2050

Toyota Tsusho Goals

Create Value Chain Synergy

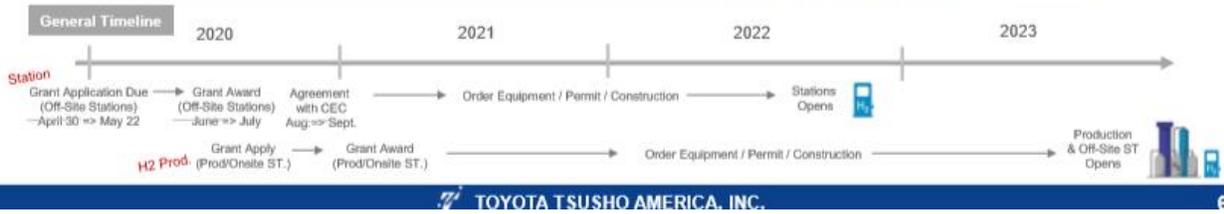
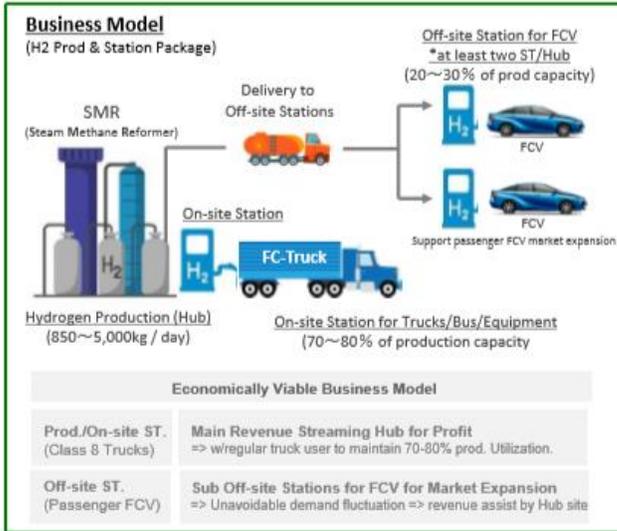
Creating supply and demand
together in the value chain
(Ex. More applications (hardware)
More infrastructure=>More Hydrogen
=> More RNG)

Establish Self-Sustainable
Supply Chain

No more relying on centralized supply
source and distribution method.

Accelerate Market Expansion

Demand Creation
Total Chained Cost Down
More Users
Market Expansion



New 2020 Model

Current Model (2015)



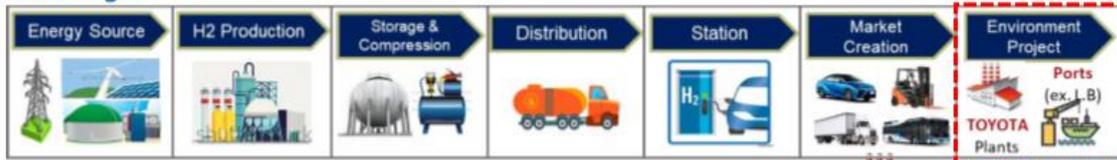
Today, many stations are regularly closed for operation due to technical problems and supply capacity by centralized production by industrial gas company

Station Name	Status	Hours
Anaheim	Online	
Campbell	Offline	
Citrus Heights	Online	
Costa Mesa	Online	
Del Mar	Online	
Diamond Bar	Limited	
Fairfax LA	Offline	
Fremont	Online	
Harris Ranch	Online	
Hayward	Offline	
Hollywood	Online	
La Canada Flintridge	Limited	
Lake Forest	Online	
Lake Tahoe-Truckee	Online	
Lawndale	Limited	
LAX	Online	
Long Beach	Offline	
Mill Valley	Offline	
Mountain View	Offline	
Mountain View	Offline	Open 6:00 AM - 10:00 PM
Oakland - Grand Ave (New)	Limited	
Palo Alto	Online	Open 7:00 AM - 10:00 PM
Playa Del Rey	Online	
Riverside	Offline	
Sacramento (New)	Offline	
San Jose	Limited	
San Juan Capistrano	Online	
San Ramon	Online	
Santa Barbara	Online	
Santa Monica	Offline	
Santa Barbara	Online	
Santa Monica	Offline	
Saratoga	Online	Open 6:00 AM - 9:00 PM
South Pasadena	Offline	Open 6:00 AM - 10:00 PM
South San Francisco	Offline	
Thousand Oaks	Online	
Torrance	Offline	
UC Irvine	Online	
West LA	Limited	
West Sacramento	Limited	
Woodland Hills	Limited	Open 6:00 AM - 10:00 PM

California Fuel Cell Partner Ship (CaFCP) station app

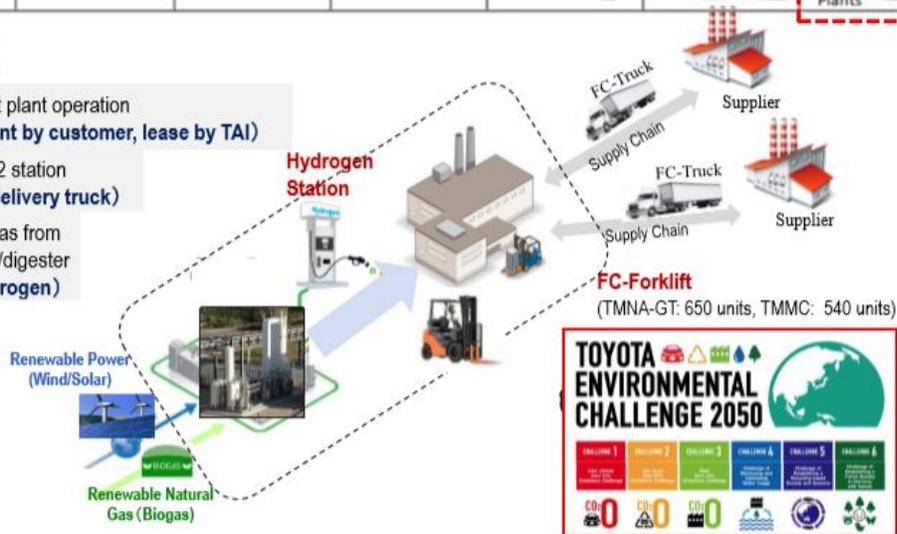
Our “decentralized production & station model” is self-sustainable”

Value Chain Synergy and Progress: Toyota Environmental Challenge



TAI Role (Idea)

- H2/Power/Heat plant operation (Ex. Investment by customer, lease by TAI)
- Operation of H2 station (For forklifts, delivery truck)
- Supply of Bio gas from near by landfill/digester (CO2 free hydrogen)



Decision Item
Phoenix Project – New FCP Organization
May 19th, 2020 Executive Board Meeting

BACKGROUND:

CaFCP is a voluntary public-private partnership established in 1999 to support commercialization of hydrogen and fuel cell electric vehicles in California. The organization has successfully led the development of the California market, from early research, development and demonstrations to the initial retail market launch in 2015.

As the technology and industry have evolved, so have the needs and activities of the public-private organization tasked with facilitating progress. While members developed the [*California Fuel Cell Revolution*](#), the common vision of a sustainable market in California, they recognized that the envisioned scaled deployment needs would require new approaches and tools to achieve that 2030 vision. Likewise, the urgency to accelerate actions to increase overall ZEV deployments to meet near- and long-term environmental goals increased.

While incremental changes to the organization were helpful, the CaFCP executive board in 2019 formally directed the development of a proposal for a new and improved public-private partnership. This new organization should position existing, and additional, stakeholders to successfully achieve the goals of California and the nation in transforming the transportation system to zero emissions by leveraging fuel cell vehicle and hydrogen fueling technologies.

The CaFCP board and members have provided significant input and guidance for the development of a new public-private partnership, outlining a common needs and desires around the vision, mission and objectives. This input has been collected and vetted through workshops, surveys, and regular meetings of the CaFCP board and steering team and is ready for board review and confirmation. Next, additional guidance is needed from the board on structural and governance to develop a complete organizational proposal for the board's consideration during the Fall 2020 meeting.

IMPACT:

An improved public-private partnership capable of driving stakeholders and the industry to a sustainable market success, in California and nationally, will accelerate the common goals and objectives of all CaFCP members and society as it undergoes a transformation of its transportation energy system. Confirming the foundational Vision, Mission, and Objectives in this proposal, and providing feedback on the necessary structural elements to complete a full organizational proposal in October, will facilitate the transition of this organization into a more effective and capable one capable of achieving our objectives faster.

RECOMMENDATIONS:

- Confirm Core Principles, Vision, Mission, Objectives & Activities developed by members
- Review, discuss & provide guidance on the structural elements required to finish the new organization proposal, including Organizational Design, Financial Model & Governance.
- Authorize the solicitation and securement of any additional resources required to complete the process, with oversight by the steering team as needed.

True Today and Foundational for Phoenix Project...

Core Principles

Leadership:

We passionately lead our organization for stakeholders to navigate the electrification of transportation, unify implementation efforts, and help everyone fall in love with fuel cell electric vehicles.

Credibility:

We are a team of thought leaders and experts, dedicated to be a reliable source of hydrogen and fuel cell data and information, that promotes discussion and informs decision makers to win hearts and minds and fulfill the drive to electric.

Collaboration:

The Partnership is a crucial platform, facilitating transformational change among the thought leaders of Industry, Government, NGOs, and Academia across Society.

Inclusion:

Transitioning to a robust, zero emission electrified transportation system has a duty to benefit everyone while minimizing disruptions.

True Today and Foundational for Phoenix Project...

Vision

Hydrogen and fuel cells answers the rally cry for zero emission electrification of transportation and energy systems.

Mission

To establish a thriving hydrogen and fuel cell vehicle market, fulfilling the drive to electric!

Principles, Vision, Mission, and Objectives

Core Principles: Leadership, Credibility, Collaboration, and Inclusion

Vision: Hydrogen and fuel cells answers the rally cry for electrification of transportation and energy systems

Mission: To establish a thriving hydrogen and fuel cell vehicle market, fulfilling the drive to electric!

Objectives

Drive Market Success

Establish the market conditions to build an expanding and robust hydrogen fuel cell transportation market.

Win Hearts and Minds

Demonstrate, build support and win over **Customers'** and **Decision Makers'** to the value and benefit of hydrogen and fuel cells

Be a Trusted Expert Resource

Bring together thought leaders and experts to share all aspects of transforming our transportation systems.

Produce and distribute high-quality data and tools to help inform policy and stakeholder investment decisions.

Develop and Operate a Sustainable Organization

Create and maintain a mission lead organization that lives by its core principles and is sustainable and robust and financially secure.

Today and Expanding to Phoenix: Objectives and Activities *(External)*

External Objectives

Drive Market Success

Establish the market conditions to build an expanding and robust hydrogen fuel cell transportation market

Win Hearts & Minds

Demonstrate, build support and win over **Customers'** and **Influencers'** to the value and benefit of hydrogen and fuel cells

Be a Trusted Expert Resource

Bring together thought leaders and experts to share all aspects of transforming transportation systems
Produce & distribute high-quality data & tools to help inform policy & stakeholder investment decisions

Strategic Activities

Shaping Market Conditions

- Identify and promote winning strategies for market growth and happy customers
- Strong members with aligned message
- Facilitate market-based policy development and expanded private investment towards rally cry tipping point
- Continue technical expertise from codes and standards to customer interface & infrastructure

Problem Solving

- Discover and identify challenges and barriers that inhibit market growth & deploy initiatives to confront and overcome them
- Cascade solutions to other stakeholder groups

Collaborate Nationally and Internationally

- Supporting our mission and market expansion
- Facilitating stakeholder communication, collaboration, and engagement

Facilitate Communication, Collaboration and Engagement for Decision Makers and Market Builders

- Provide forums that facilitate engagement, open communication, encourage varied points of view, and steps to move forward building EV customer/user acceptance.

Build Coalition of the Willing and Open-Minded Stakeholders thru Education & Outreach Campaigns

- Target #1: Policy Makers, Decision Makers, NGOs, Investment Groups, Media
- Target #2: Businesses, Public & Private end-users of vehicles with fuel cell vehicle & meet regulation.

Harness and Leverage Customer Enthusiasm

- Create FCV Club: to gather enthusiasts, provide social events, keep them informed, and rally them for grassroots-type efforts

Stakeholder-Expert Created Materials

- Develop vision, roadmap and strategy plans to achieve 2030 vision and show success

Continue to Improve & Share our Knowledge

- SOSS
- Education and outreach campaigns: policy makers, decision makers, non-government organizations, trade associations. Influencers, media, standards development organizations, investment groups, general public
- Social Media Campaign
- Publish documents created by our stakeholder experts:
 - Studies
 - Reports
 - Objective materials
 - Common definitions

High Level Draft -- For Discussion Only

Today and Expanding to Phoenix: Objectives & Activities *(Internal)*

Internal Objectives

Develop and Operate a Sustainable Organization

Create and maintain a mission led organization that lives by its core principles and is sustainable and robust and financially secure

Strategic Activities

Building on the Strengths of the CaFCP

Member Composition

- Member Levels
- Sector Representation

Collaboration Forum

- Meetings
- Project/Breakout Teams

Operational Activities

- Public Education and Outreach
- Internal Stakeholder Alignment
- Strategic Planning
- Project Initiatives

Financial Inputs

- Dues levels
- Project and Activity Sponsorships
- Additional Member Contributions

Develop and Launch Expanded Organization

Phase 1: Aligning a Strong Foundation

- ✓ Investigation and Discovery
- ✓ Steering Team Socialization and Review
- ✓ Recommended Organizational Foundations

Confirm Org Foundation & Board Direction

- Board presentation, and feedback

Phase 2: Presented at October Board Mrg

- Develop Participation Structure: Framework, Structure, and Governance
- Develop Strategic and Operational Plans
- Develop a Financial Model
- Develop the Transition Plan

Phase 3: Launch the New Organization

Operate a Sustainable Organization

Active Planning and Management

- Living Strategic Business Plan
- Attract Strategic Members/Partners
- Match Resources and Staffing to Business Needs

Business Development

- Grow Influence
- Expand Geographic Presence
- Improve Effectiveness/ Continuous Improvement

Financial Health

- Identify and Attract New Members
- Identify and Implement New and Non-traditional Opportunities for Sustainable Revenue Streams

Structural Concepts -- *for discussion*

Organizational Design

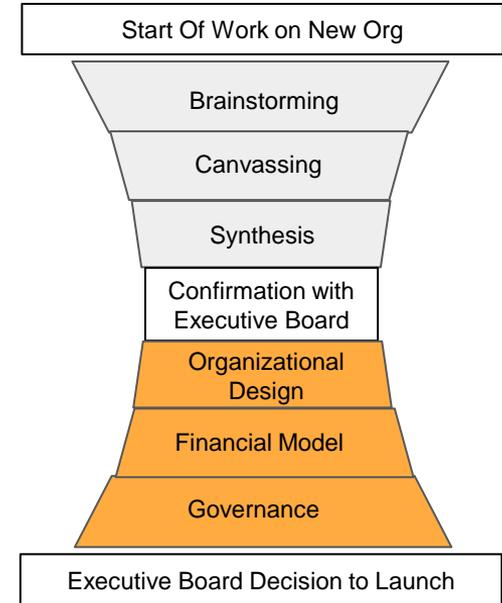
- *Formal structure options*
- *Multiple levels of participation*
- *Public and private leaders engage across organization*
- *Transition towards traditional stakeholder roles*
- *Staffing models*

Financial Model

- *“Skin in” commitment for all participants*
- *Multiple and expanding revenue and support options*

Governance

- *Create governance structure that supports organizational design and financial model that effectively achieves the mission statement*





The California Fuel Cell Partnership and its members continue to advance the market for fuel cell electric vehicles and the hydrogen infrastructure network, collaborating in the ideas and actions that will create a sustainable future for zero-emission cars, trucks and buses. [The California Fuel Cell Revolution](#) continues to be a leading guide towards achieving the state objective of 200 stations by 2025 and laying the foundations to achieve 1,000 stations by 2030 to support the state's objective of 5 million ZEVs by 2030. Members can access the related slide deck and other materials on Member Resources or the CaFCP website¹.

SECTOR GROUP UPDATES

AUTOMOTIVE GROUP | Member Lead: M McClory | Staff Lead: D Park

- Submitted CaFCP industry member comment letter to CEC [18-HYD-04 docket](#), Draft Solicitation Concepts for Light-Duty Hydrogen Refueling Infrastructure, "California Fuel Cell Partnership Comments - CaFCP Stakeholder Response to 18-HYD-04 HySCapE Workshop."
- Organized a CaFCP hosted webinar for CARB to present their AB8 report findings. Staff coordinated and presented the OEM perspective to counterbalance CARB report findings. (<https://cafcpc.org/content/ab-8-webinar-2019-annual-evaluation-fcev-deployment-hydrogen-station-network-development>)
- Coordinated joint OEM and SDO member review of CEC [19-TRAN-02](#) MD/HD ZEV and Infrastructure solicitation concepts; Staff consolidated comments and submitted to the docket.
- Staff presented SOSS Topics:
 - Station Status Criteria-updated terminology and definitions for OEM discussion and consensus
 - SOSS Icons, including "refresh"
- Initiated decoupling of retail hydrogen station count and CaFCP Station count from the station map.
- The 2019 hydrogen supply disruption topic was discussed and a methodology for developing messaging around Station Network Health was initiated and communication developed
- Burbank outreach efforts initiated including meeting with Burbank Public Works Fleet & Facility manager

¹ http://cafcpcmembers.org/system/files/documents/CAFCR_Vision2030-Presentation-Final.zip

GOVERNMENT GROUP | Member Lead: G Vacin | Staff Lead: B Xiong

- Data gathering by CARB for their Hydrogen Station & Dispensing Regulatory efforts continue
- The Station Confirmation Group discussed next steps to complete commissioning of the Woodside, and Burbank stations. Please refer to the Go-Biz SmartSheet for details.
- The group discussed processes and methods to remove stations from the [CaFCP Station Map](#). Staff developing a strawman to be proposed to OEM, SDO and Station Confirmation Groups for review.
- 3 stations were set to Open-retail: San Francisco – 3rd Street; San Francisco – Harrison Street; San Francisco – Mission Street
- The Cal State LA station was moved from commissioning to Legacy Retail
- 15 stations are expected to open in 2020; 2 stations are to open in 2021; the Burbank station is currently Under Review

STATION DEVELOPER/OPERATOR GROUP | Member Lead: A Harris | Staff Lead: D Park

- Submitted CaFCP industry member comment letter to CEC [18-HYD-04 docket](#), Draft Solicitation Concepts for Light-Duty Hydrogen Refueling Infrastructure, “California Fuel Cell Partnership Comments - CaFCP Stakeholder Response to 18-HYD-04 HySCapE Workshop.”
- Staff coordinated joint SDO and OEM member review of CEC [19-TRAN-02](#) MD/HD ZEV and Infrastructure solicitation concepts; Staff consolidated comments and submitted to the docket.
- Staff coordinated SDO discussion of SOSS Topics, including Station Status Criteria-updated terminology and definitions, and LCFS topics (Standardization of SOSS reporting)
- Staff coordinated methodology for developing messaging around Station Network Health and communication developed, in response to 2019 hydrogen supply disruptions



MHD GROUP (FCET & FCEB) | Member Lead: Shell | Staff Lead: N Bouwkamp

- Actively emphasized need for dedicated funding to implement HD H2 ZEV fueling infrastructure at CARB & CEC HD funding meetings, both for buses and trucks.
- Conveyed balanced message that efforts should include HD FCEVs while continuing to support LD FCEVs and infrastructure.
- Staff continued the drafting of an HD H2 infrastructure fact sheet for outreach purposes to decision makers based on industry input submitted for this purpose.
- FCET group continues to meet regularly to advance activities overall and towards FCET strategy document for 2020.
- FCEB tour on pause for now, for future consideration

PROJECT TEAMS

SAFETY CODES & STANDARDS | Member Lead: A Harris | Staff Lead: J Hamilton

- **CSA Group:** Aaron and Jennifer are Chair and Vice-Chair (respectively) of the CSA Hydrogen Transportation Technical Committee; Jennifer is Bill Elrick's voting member for the Transportation Strategic Steering Committee; a member of the B51/NGV2/HGV2 Harmonization Combined TF, on the Transportation Executive Synchronization Committee, and is in the Technical Sub Committees for a number of the documents listed below.

Active Projects

- **HGV 4.9 – Hydrogen fueling stations** – The Technical Committee ballot closed. The standard is being finalized and will be published in February/ March 2020.
- **HGV 4.1 – Hydrogen dispensing systems** – All TSC / Public Review comments have been dispositioned and the draft has been finalized for the Technical Committee ballot. It is posted and closes February 21, 2020.
- **SPE 2.1.3 – Best practices for defueling, decommissioning, and disposal of compressed hydrogen gas vehicle fuel containers** – Work is completed and expected publication in February 2020.
- **HGV 2 – Containers** – The TSC continues to meet for content development.
- **HPRD 1 – Thermally activated pressure relief devices** –TSC continues to meet for content development.
- **HGV 4.4 – Breakaway Devices, HGV 4.6 Manual Valves, and HGV 4.7 Automatic Valves** – The TSC continues to meet for content development.
- **HGV 4.10 – Fittings** – The TSC continues to meet for content development
- **FC 1 – Stationary fuel cell power systems** – The TSC continues to meet for content development

Projects Launching Soon

- **HGV 5.1 – Hydrogen Refueling Appliances**
- **HGV 4.2 – Hoses for compressed hydrogen fuel stations**
- **HGV 3.1 – Fuel system components for compressed hydrogen gas powered vehicles**

Recently Published

- **HGV 4.3 – Fueling parameter evaluation** published in July 2019. Work on the next edition of HGV 4.3 will be to align with definitions in the upcoming edition of SAE J2601.
- **CHMC 2 – Chemical compatibility (Non-Metals)** published in August 2019.
 - **NFPA 2:**
 - Public comments for the 2023 version open until June 30, 2020 Task Groups active and reporting to the Technical Committee ahead of the Pre-First Draft meeting
 - Meeting originally scheduled for April 22-23 being rescheduled TBD
 - **IFC/CFC:**
 - 2019 Intervening Code Cycle adopting 2020 NFPA 2 (as was done for previous versions)
 - **ISO/TC 197:**
 - **WG 24:** ISO/DIS 19880-1, *Gaseous hydrogen — Fueling stations — Part 1: General requirements*-. published; WG 24 disbanded
 - **WG 27:** Hydrogen Fuel Quality- ISO 14687 – published
 - **WG 28:** Hydrogen Quality Control- ISO 19880-8 is in FDIS stage; the WG will continue with H. Tomioka as the convener.

- **JWG 7: Analytical methods for hydrogen fuel — Proton exchange membrane (PEM) fuel cell applications for road vehicles**-ISO 21087 published; WG disbanded
- **New WG 29- Basic considerations for the safety of hydrogen systems:** WG formed February; kickoff meeting TBD (Convener, Jay Keller)
- **ASTM D03.14 Subcommittee on Hydrogen and Fuel Cells:**
 - ILS's on FTIR and Cavity Ring Down Spectroscopy are in process; updates to the corresponding documents will occur upon completion (ASTM D7653 and ASTM D7941/D7941M, respectively)
 - Planning for the June in person meeting and Hydrogen Sampling Workshop underway.
- **SAE International:**
 - **SAE J2600 (Fueling Hardware):** open for revision to add in HD fueling hardware; harmonize with ISO 17268; plan to publish in 2020
 - **SAE J2601 (Fueling Protocol):** Publication of the 2020 version in April.
 - **SAE J2719 (Fuel Quality):** published
 - **SAE J2579 (Fuel Systems):** updating for HD storage cylinders and harmonizing with ISO and GTR #13 for material compatibility, performance-based stress rupture, permeation/leak requirement; localized/engulfing fire test
 - **SAE J2990/1 (First and Second Responder Recommended Practice):** open for revision; harmonization with other FC safety documents, the parent document J2990, UN GTR, and new proposals. Target ballot timeframe- fall, 2020.
- **FCHEA Regulatory Matrix** (as of December 31, 2019):
<https://static1.squarespace.com/static/53ab1fee4b0bef0179a1563/t/5e3afea43ac8e451d6e713d2/1580924580760/FCHEA+Regulatory+Matrix+markup+Dec+31+2019.pdf>

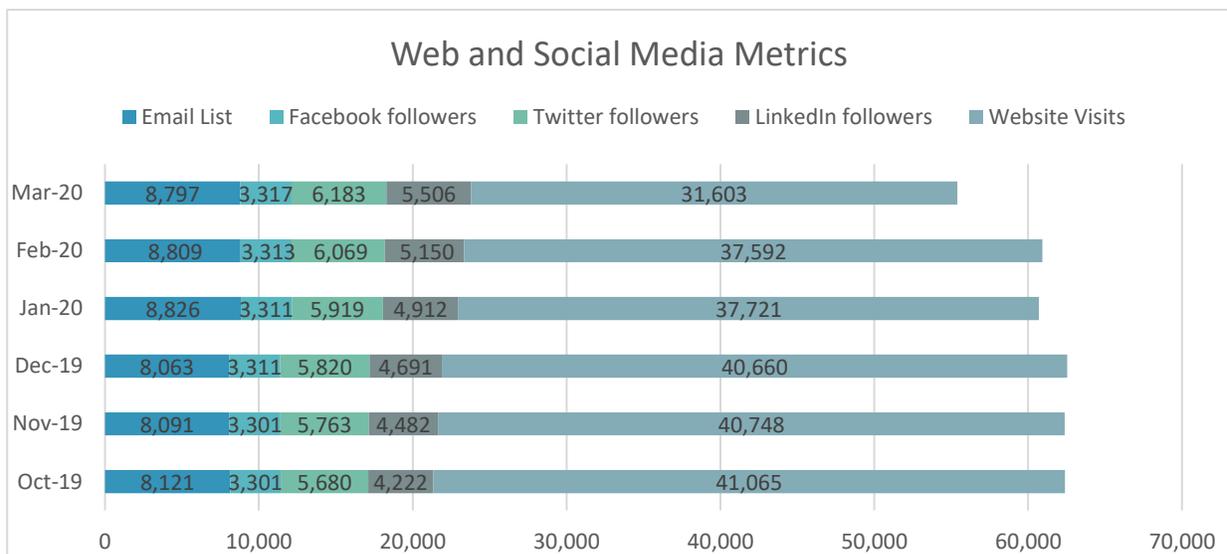
ORGANIZATIONAL AND MEMBERSHIP ACTIVITIES | Staff Lead: B Elrick

- Work continues on the board directive of CaFCP reorganization to meet the next 20 years of market development, with a board-level workshop held FEB 26 at CaFCP. The workshop focused on identifying the vision, core principles and objectives for an improved organization and is being reviewed and discussed across Steering Team meetings. These consensus foundations will be presented to the board during their next meeting for review and feedback.
- In March 2020 the Steering Team approved SETS as a new Associate member and recommended Toyota Tsusho to be proposed to the Executive Board as a new potential Full member. Chevron and City of San Francisco have submitted membership request letters and are currently in process.
- The April 29th CaFCP Board meeting is being rescheduled as a remote-only meeting, tentatively scheduled for May 20th.
- As a member of the Clean Transportation Program's new Advisory Committee, CaFCP submitted feedback comments on the [2020-2023 Investment Plan](#) for AB8 funding.

OUTREACH/EDUCATION | Member Lead: TBD | Staff Lead: K Malone/ Juan Contreras

- Staff periodically receive calls and emails from news media. Recent inquiries and engagement via email and Twitter have included Calmatters, Washington Post, etc.
- Staff frequently interact with drivers and others (CARB board member Dean Florez, for example) with questions via email, social media (Facebook) and in-person moments (lunch, H2 station, etc.).
- Staff regularly participating in DOE's monthly meetup with organizations across the U.S.

- Met with SANDAG staff, along Tim Sasseen of Ballard, to talk about FCEVs and station development. SANDAG and stakeholders may pursue a sales tax in support of transportation projects, including transit and ZEV infrastructure (charging and H2).
- Met with Jacques Chirazi, business development director of the City of San Diego, to discuss station development and the state of FCEVs in California.
- Class presentation to Santa Monica College.
- OCTA ribbon cutting for new station and 10 buses.
- SCAQMD Clean Fuels Advisory Committee participation (alternates between Keith and Dave)
- Initial conversations with Colorado Hydrogen Network, newly formed group.
- Presenter at SCAG (So Cal Assn of Govts) and GO-Biz seminar/webinar on permitting.



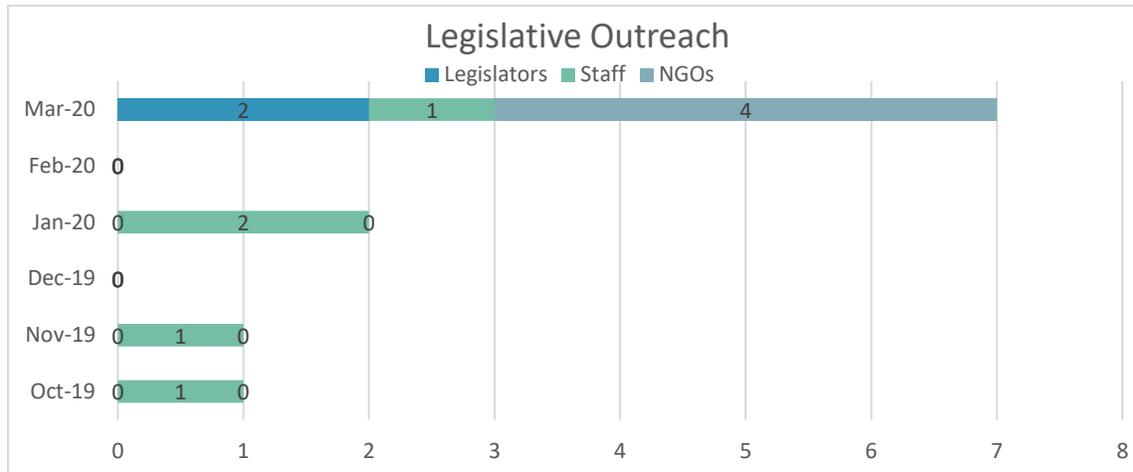
SOSS | MEMBER LEAD: J BIRDSALL | STAFF LEAD: B XIONG

- Working with OEM and SDO groups to define SOSS station status definitions
- Worked with SDO members to review their data log for any anomalies and identify solutions
- Working with CARB and station developers and operators on integrating SOSS and LCFS activities, ongoing. Investigating long term needs and direction for SOSS.
- 4 new HRS were added to SOSS (SF 3rd St, SF Harrison St, SF Mission St, Cal State LA)
- *Cal State LA was added to SOSS as a Legacy Retail station.
- Additional SOSS work identified in the SDO and OEM groups above
- Total SOSS accounts to date: 5,230

GOVERNMENT AFFAIRS | Member Lead: S Baker | Staff Lead: K Malone

- Request from office of Congressman Jim Costa (D-Fresno) for a FCEV display on National Hydrogen Day. Request came too late to make arrangements. Alerted FCHEA to inform their outreach efforts.
- Coincidental interaction with Tyler Madary, district director of State Senator Richard Roth (D-Riverside), at the L.A. Auto Show. Mr. Madary recognized Keith Malone from previous interactions.

- Informal meeting with Southern California Edison public affairs staff.
- Informal meeting with staff of State Treasurer Fiona Ma.
- Staff consult with colleagues at California Hydrogen Coalition to ensure coordination of messaging and complementary activities in legislative education and outreach.
- Developing project to organize 100-electeds (city council, county supervisor) in letter of support of hydrogen fueling infrastructure. For discussion at next Government Relations/Comms meeting.



EVENTS/ACTIVITIES | Staff Lead: J Contreras

Quarter 4, 2019

10/15/19	Center for H2 Safety Conf – Ride & Drive (J. Contreras, K. Malone & J. Hamilton), Sacramento
10/15/19	CaFCP HD Strategy Meeting (N. Bouwkamp), CaFCP HQ
10/16/19	CaFCP Executive Board Meeting – Static Display (J. Contreras & K. Malone), Sacramento
10/16/19	California Fuel Cell Partnership 20th Anniversary – Static Display (CaFCP staff), Sacramento
10/17/19	GO-Biz Renewable H2 Roundtable–Static Display (J. Contreras, K. Malone & B. Elrick), Sacramento
10/22/19	Regional Meeting on Implementing the Innovative Clean Transit & Zero-Emission Airport Shuttle Regulations - (J. Hamilton), Sacramento
10/25/19	CEC Staff Workshop for Medium- and Heavy-Duty Zero-Emission Vehicles and Infrastructure solicitation concepts (D. Park), Sacramento
10/28-29/19	2019 Philomathia Forum: Zero Emission Ports & Freight (N. Bouwkamp), Berkeley
10/30-31/19	UC Davis ITS STEPS+ workshop: Oct 30: ZEV Truck Uptake, Markets and Policies; Oct 31: Transitioning to a Large Scale H2/FCEV System – Presenter/participant (N. Bouwkamp), Davis
10/30/19	AB8 Webinar 2019 – Annual Evaluation of FCEV Deployment & Hydrogen Station Network Development - co-host (B. Elrick and D. Park), CaFCP, HQ
11/4/19	HTAC Meeting (B. Elrick), Long Beach
11/5/19	H2@Scale Workshop (B. Elrick), Long Beach
11/6/19	UCLA Summit on State and Local Progress Toward 100% Clean Energy (B. Elrick & N. Bouwkamp), Los Angeles
11/13-15/19	California Transit Association - 54th Annual Fall Conference & Expo (N. Bouwkamp), Monterey
12/4/19	Californian Hydrogen Developments – Webinar (B Elrick)
12/10/19	STEPS + Fall 2019 Research Symposium (B. Elrick), Davis
12/12/19	CARB Board hearing (N. Bouwkamp), Sacramento

12/13/19	Japanese Gas Assoc Delegation Visit – Presenter (B. Elrick & J. Hamilton), CaFCP HQ
12/17/19	H2B2 USA Visitor - Meeting (B. Elrick), CaFCP HQ
1/6/20	Korean Auto Manufacturing Group (B. Elrick), CaFCP HQ
1/9/20	Shell future dispenser demo at Torrance H2 Station (K. Malone), Torrance
1/9/20	USDRIIVE Hydrogen Delivery Tech Team Meeting (N. Bouwkamp), ANL, Lemont, IL
1/20/20	MLK 365 Season of Change – The Diversity Expo (J. Contreras), Sacramento
1/21/20	Stanford - San Francisco Energy Dialogues (B. Elrick), Palo Alto
1/22/20	CARB Work Group Meeting for Heavy-Duty Demonstrations, Pilots, and Clean Truck and Bus Vouchers from FY (N. Bouwkamp), Sacramento
1/23/20	Renewable Gas 360 (J. Contreras and N. Bouwkamp), Sacramento
1/23/20	CARB Board meeting - Policy Recommendations Increase Use ZEVs SB 498 (N. Bouwkamp)
1/23/20	SANDAG Regional Energy Working Group: H2 & FCEV 101 Presentation (K. Malone) San Diego
1/24/20	CEC Pre-Application Workshop #3 - GFO-19-602 H2 Refueling Infra (B. Elrick) Sacramento
1/29/20	Tokyo Metropolitan Government meeting with CaFCP staff (J. Contreras & B. Elrick) CaFCP HQ
1/30/20	MSU Center for Railway Research and Education - Railway Motive Power and Alternative Propulsion workshop – presenter (N. Bouwkamp & J. Hamilton), Long Beach
1/31/20	OCTA Grand Opening Station (K. Malone & N. Bouwkamp), Orange
2/4/20	Fuel cell & H2 presentation at Woodbury University (K. Malone), Santa Monica
2/6/20	Clean Fuels Advisory Group, SCAQMD (K. Malone), Diamond Bar
2/12/20	CARB Workshop to Discuss A Potential M/HD Zero-Emission Fleet Regulation (D. Park & N. Bouwkamp), Diamond Bar
2/18-19/20	Drive to Zero: Decarbonizing Transportation (B. Elrick), San Francisco
2/20/20	CARB Workshop on changes to Advanced Clean Truck regulation (N. Bouwkamp), Sacramento
2/25/20	7th International Hydrogen Infrastructure Workshop (N. Bouwkamp), WebEx
2/26/20	Coalition for Clean Air Toast to Clearing the Air (J. Contreras & B. Elrick & Hyundai), Sacramento
3/3/20	Clean Transportation Program Advisory Committee Meeting (B. Elrick), Sacramento
3/4/20	VELOZ - Electric Transportation 2030 – Policy, Power & Plugs (J. Hamilton), Sacramento
3/6-7/20	7 th California Hydrogen and Fuel Cell Summit (J. Contreras & B. Elrick), Sacramento
3/10/20	Zero Emission Vehicle Permit Streamlining Workshop (K. Malone), Los Angeles
3/12/20	CARB Workshop on Development FY2020-21 Funding Plan for Clean Transportation Incentives (N. Bouwkamp), Sacramento
UPCOMING EVENTS	<i>**due to the COVID-19 the events below have been postponed or cancelled**</i>
3/25/20	CALSTART 2030 Policy Summit, Sacramento
3/25/20	World Hydrogen Congress 2020
4/13-15/20	Green Transportation Summit 2020, Tacoma, WA
5/4/20	ACT Expo 2020 – Advanced Clean Transportation Expo – Long Beach
5/15/20	Solar, Storage and Smart Energy Expo – San Diego
6/9/20	f-cell HFC Vancouver, Vancouver, B.C.

Agenda Item #5

Lisa Mirisola

**CaFCP Executive Board Meeting
Agenda and Activity Update**

Background



- The CaFCP was created in 1999
“Promote fuel cell vehicle commercialization as a means of moving towards a sustainable energy future.”
- South Coast AQMD joined in 2000
- 18 current Executive Board Members
 - Automobile manufacturers (7)
 - Government agencies (4)
 - Industry stakeholders (7)
- 35 full & associate members

CaFCP Executive Board May Meeting Highlights

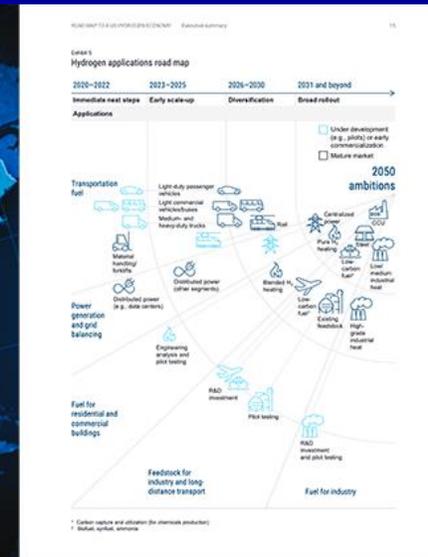
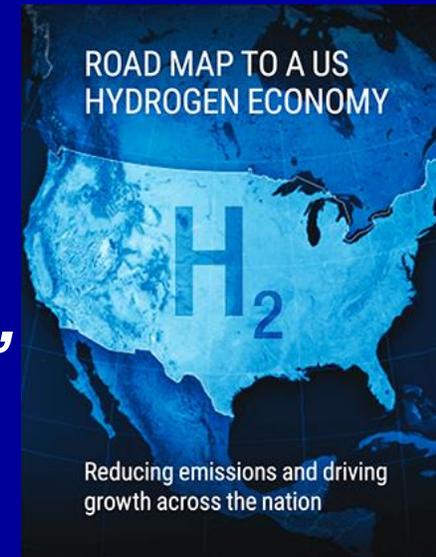
- Invited two new members to join
 - Executive: Chevron (Executive Board)
 - Full: Toyota Tsusho (Steering Team)
- Project Phoenix review
 - Confirmed core principles, vision and mission
 - Provided guidance for organizational design, financial model and governance
 - Authorized oversight by the Steering Team
- Added Executive Board update - late summer full proposal for new organization October 2020

CaFCP Goals For 2020

- Support expanded vehicle rollout, including cars, buses and trucks, for the first 200 hydrogen stations and longer term exponential growth to reach 1,000 stations with related customer interface tools
- Provide forums and opportunities for members to collaborate within CaFCP and among an expanding stakeholder base, including national coordination
- Reach target markets, audiences and communities to educate and promote hydrogen and fuel cell vehicles and accelerate commercial adoption

CaFCP Recent Activities

- Hydrogen Council & McKinsey reports
“Path to Hydrogen Competitiveness – A Cost Perspective” and
“Roadmap to a US Hydrogen Economy”
- CaFCP webinar described the anticipated cost reductions that enhance the accelerated deployment of fuel cell electric trucks
- Monthly HD FCET Task Force teleconference provides a forum for members to learn more about funding opportunities and proposed regulations



CaFCP Recent Event Highlights



Shell Future dispenser demo
January 9, 2020
Torrance, CA



Orange County Transit Authority
10 fuel cell bus & hydrogen fueling debut
January 31, 2020
Santa Ana, CA
Bus station H2 fueling map -
<https://cafc.org/stationmap>

Recommended Action

Receive & File May 19, 2020 Executive Board Meeting Agenda and 4th Quarter 2019 and 1st Quarter 2020 Activity Update