

IMPLEMENTATION MANUAL FOR THE HYBRID AND ZERO-EMISSION TRUCK AND BUS VOUCHER INCENTIVE PROJECT (HVIP)

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A. INTRODUCTION AND OVERVIEW

The Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP) accelerates the deployment of zero-emission and other eligible trucks and buses, including plug-in hybrids; vehicles using engines certified to the optional Low NO_x standard of 0.01 g/bhp-hr as of the publication of this document; and trucks equipped with electric power take off (ePTO) systems in California. HVIP benefits the residents of California by stimulating deployment of advanced clean commercial vehicles, improving community health with immediate air pollution emission reductions, as well as reducing greenhouse gas emissions to help meet State climate goals, and yielding substantial economic benefits. It is implemented through a partnership between the California Air Resources Board (CARB) and a Grantee, selected via a competitive CARB grant solicitation. HVIP provides vouchers on a first-come, first-served basis. In addition, HVIP provides increased incentives for fleets domiciled in disadvantaged communities.

There are several key pieces of legislation that provide the overall policy framework and funding to support HVIP. In 2007, Governor Schwarzenegger signed into law the *California Alternative and Renewable Fuel, Vehicle Technology, Clean Air, and Carbon Reduction Act of 2007*. Assembly Bill (AB) 118 (AB 118, Statutes of 2007, Chapter 750) created the Air Quality Improvement Program (AQIP), a voluntary incentive program implemented by the California Air Resources Board (CARB), to fund clean vehicle and equipment projects, air quality research, and workforce training.

In August 2020, CARB approved for adoption the Heavy-Duty Engine and Vehicle Omnibus Regulation and Associated Amendments, which creates a new optional standard of 0.01 g/bhp-hr NO_x. HVIP can help to accelerate the market for technologies that meet the new optional standard.

As required in Health and Safety Code (HSC) Section 44274(a), the Board adopted regulatory guidelines in 2009 for AQIP. The Guidelines for the AB 118 Air Quality Improvement Program (Guidelines) define the overall administrative requirements, policies, and procedures for program implementation based on the framework established in statute.

Senate Bill (SB) 1204 (Lara, Chapter 524, Statutes of 2014) guides CARB's heavy-duty vehicle investments funded with Cap-and-Trade auction proceeds. SB 1204 creates the California Clean Truck, Bus, and Off-Road Vehicle and Equipment Technology Program intended to help accelerate the introduction of the next generation of cleaner heavy-duty vehicles and engines with a priority on projects that benefit disadvantaged communities. Among other requirements, SB 1204 directs CARB to develop an annual framework and plan to guide these investments. The Three-Year Investment Strategy for Heavy-Duty Vehicles and Off-Road Equipment included in the annual Funding Plan is designed to help address this requirement.

In 2012, the legislature passed, and Governor Brown signed into law, three bills – AB 1532 (Pérez, Chapter 807), SB 535 (de León, Chapter 830), and SB 1018 (Budget and Fiscal Review Committee, Chapter 39s) – that established the Greenhouse Gas Reduction Fund (GGRF) to receive Cap-and-Trade

auction proceeds and to provide the framework for how the auction proceeds will be administered to further the purposes of AB 32 (Núñez, Chapter 488, Statutes of 2006). Cap-and-Trade auction proceeds have been appropriated to CARB for Low Carbon Transportation projects that reduce greenhouse gas (GHG) emissions, with an emphasis on investments that benefit the State’s disadvantaged communities. Per statute these funds must be used to further the purposes of AB 32. The Low Carbon Transportation investments build upon and greatly expand existing advanced technology and clean transportation programs, which provide mobile source incentives to reduce criteria pollutant, air toxic, and GHG emissions. In 2016, AB 1550 (Gomez, Chapter 369, Statutes of 2016) established disadvantaged community, low-income community, and low-income household targets for the State’s Cap-and-Trade auction proceeds investments.

The Implementation Manual, in conjunction with the Guidelines, and the corresponding Funding Plans identify the minimum requirements for implementing the program for FY20-21 funding allocations. At CARB’s sole discretion, this funding may be released in “waves” during the program year. Information will be provided to participants in advance of fund availability.

The Implementation Manual may be periodically updated as needed to clarify project requirements and improve project effectiveness. The Implementation Manual, including any updates, will be posted on the Grantee’s HVIP webpage at www.CaliforniaHVIP.org. Project participants are responsible for checking the HVIP website on an ongoing basis for the latest program updates.

CARB has sole discretion to determine eligibility for HVIP funding. Definitions of key program parameters are located in Section G of this Implementation Manual. Table 1 clarifies which fiscal year coincides with which HVIP project year.

Table 1: Fiscal Year/HVIP Project Year

Fiscal Year	HVIP Project Year
FY 2009-10	Year 1
FY 2010-11	Year 2
FY 2011-12	Year 3
FY 2012-13	No HVIP Funding
FY 2013-14	Year 4
FY 2014-15	Year 5
FY 2015-16	Year 6

FY 2016-17	Year 7
FY 2017-18	Year 8
FY 2018-19	Year 9
FY 2019-20	Year 10
FY 2020-21	Year 11

Project Framework

Figure 1 illustrates a hypothetical vehicle dealer sale and voucher reimbursement transaction. Figure 2 shows the voucher request / redemption process and timeline, or the “lifecycle” of a voucher. HVIP provides a voucher for the vehicle incentive amount, based on corresponding vehicle voucher amount tables found in Section C to a registered HVIP dealer. The dealer provides the discount to the purchaser at the time of sale, and the voucher is redeemable by the dealer at the time the vehicle or engine is delivered and when required voucher redemption paperwork is complete.

The HVIP website includes a list of eligible trucks, buses, and engines, as well as the eligible voucher amount(s) for each vehicle and engine certified to the optional Low NOx standard of 0.01 g/bhp-hr. HVIP-approved dealers have access to the HVIP online Voucher Processing Center (VPC), through which a dealer completes a voucher request with the purchaser’s input and submits at the time a specific vehicle is ordered. A similar structure also applies to vehicles which are ordered directly from a manufacturer who acts as an HVIP dealer.

Figure 1: Example HVIP Truck or Bus Purchase Transaction

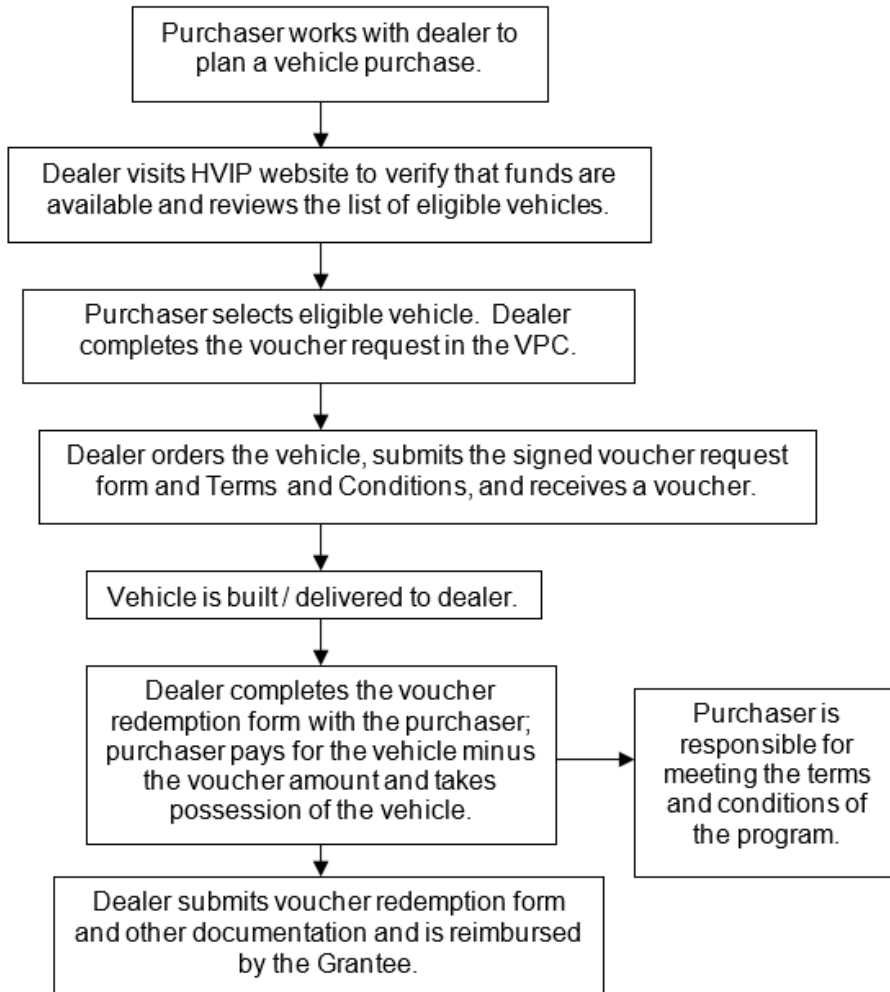
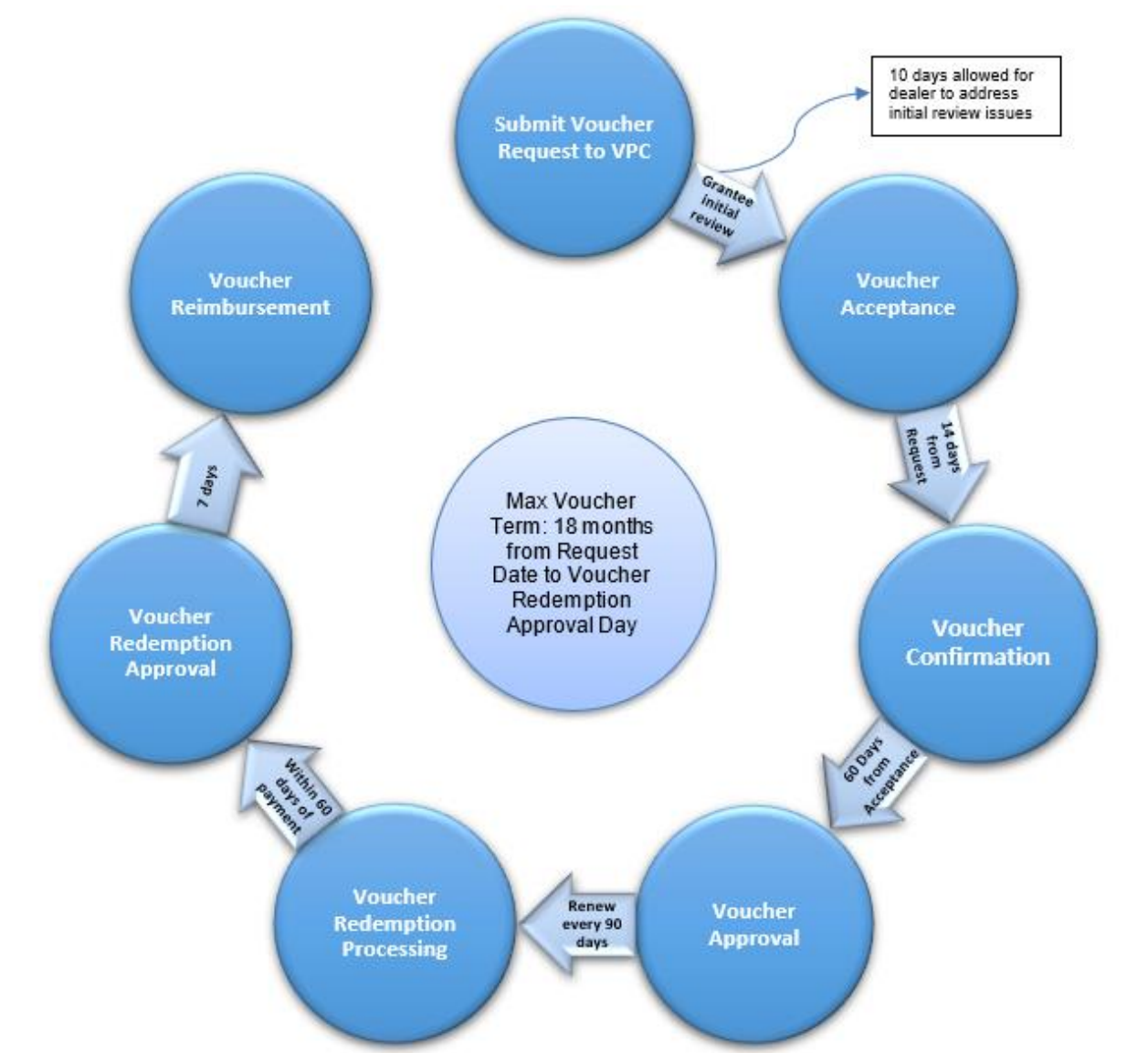


Figure 2



B. VEHICLE TECHNOLOGY ELIGIBILITY

This section describes minimum criteria necessary for vehicles to apply for HVIP eligibility. Once a vehicle becomes HVIP eligible, the vehicle must continually meet the minimum criteria as stated. If a vehicle or engine fails to continually meet the minimum eligibility criteria, the vehicle or engine will become ineligible and will be removed from the list of eligible vehicles.

CARB is responsible for evaluating and approving the eligibility of vehicles and engines for HVIP funding. Vehicle eligibility applications are found in Appendix B. Application submittal instructions and an updated list of eligible vehicles are found at <https://www.californiahvip.org/>. Approved vehicles and engines will remain eligible for two years following the current vehicle or engine model year.

1. Requirements for All Vehicles

The vehicle engine (if applicable), propulsion system, drive train, and batteries/energy storage system(s) must be covered by a manufacturer warranty. The engine warranty requirements in HVIP applies to vehicles receiving funding and is not intended to supplant or limit the certification requirements. The emissions warranty specified in title 13 CCR section 2036, apply to engines used in HVIP-funded vehicles.

- a. Prior to approving a vehicle model for addition to the List of Eligible Vehicles, CARB may request that the manufacturer provide copies of representative vehicle, engine and battery warranties and a description of the manufacturer's plans to provide warranty and routine vehicle service. HVIP vehicles must provide one of two warranty options described below. A manufacturer has the option to provide either warranty on any vehicle (except vehicles with engines certified to the optional Low NOx standard of 0.01 g/bhp-hr). For vehicles equipped with these engines, please see Section C(7) for warranty requirements.
 - i. The warranty must provide protection for a minimum of 3 years or 50,000 miles, whichever comes first, and provide full warranty coverage of at a minimum: motor, propulsion system, drive train, battery, parts and labor, or
 - ii. The warranty must provide protection for a minimum of 2 years or 100,000 miles, whichever comes first, and provide full warranty coverage of at a minimum: motor, propulsion system, drive train, battery, parts and labor.
- b. A vehicle is not eligible for an HVIP voucher if the same vehicle make and model is receiving public incentive funding as a research vehicle. Vehicles of the same make and model participating in pre-commercial demonstration and pilot deployment projects may be eligible for HVIP. However, the VIN of a vehicle receiving HVIP funding may not match any vehicle participating in pre-commercial demonstration and pilot deployment project.
- c. The vehicle must be a commercial, non-profit agency, or public fleet vehicle. Personal passenger vehicles are not eligible for HVIP funding.
- d. Vehicles that are approved for the Clean Vehicle Rebate Project (CVRP) are not eligible to participate in HVIP.
- e. The chassis of any vehicle receiving an HVIP voucher must be titled and licensed in California, and the vehicle must be California-registered. The delivered chassis must match the chassis listed on the corresponding CARB Executive Order.
- f. HVIP eligible vehicle or engine must be purchased from a dealer approved by the Grantee to participate in HVIP.

- g. Eligible vehicles and engines must have at least one California-based service provider affiliated with the vehicle or engine manufacturer and must be capable of vehicle and engine service and repair.
- h. No retrofits or other hardware or software modifications which significantly impact the vehicle's emissions characteristics are permitted. (California Vehicle Code section 27156).
- i. The vehicle must meet all applicable local, state, and federal laws, ordinances and requirements, including but not limited to all applicable safety and air quality regulations.
- j. Vehicles with lead-acid batteries used for traction power or ePTO operation are not eligible for HVIP. Lead-acid batteries may be used to power accessories or other justified uses.
- k. For school buses, California Highway Patrol (CHP) certification is required. It is the responsibility of the school district to obtain CHP certification once the school district takes possession of the school bus.
- l. Telematics data for Disadvantaged Communities: All vehicles, except military vehicles and vehicles equipped with engines certified to the optional Low NOx standard of 0.01 g/bhp-hr, shall be equipped with a data acquisition system capable of collecting vehicle GPS data and vehicle mileage. Telematics requirements for ePTO vehicles are covered separately in section C(5)(f). Each vehicle manufacturer shall be responsible for providing quarterly reports for each HVIP-funded vehicle to the Grantee. Each quarterly report shall have current quarterly and cumulative data listing the following information for each HVIP-funded vehicle:
 - i. Hours and percentage of total time when the vehicle is operating (operating would mean vehicle is "key on") within a disadvantaged community (DAC)¹.
 - ii. Percentage of days when first key on of the workday is in a DAC.
 - iii. Total miles and percentage of total miles when the vehicles are driving within a DAC.
 - iv. Each report shall be broken into two groups:
 - 1. Vehicles domiciled in a DAC.
 - 2. Vehicles not domiciled in a DAC.
 - v. Grantee shall provide manufacturer a list of vehicles to be included in each quarterly report.
 - vi. Vehicle manufacturers shall provide a minimum of three years of data for vehicles from the date of voucher payment.

For DAC mapping data files, please visit CARB's Disadvantaged and Low-income Communities Investments website at:

<https://www.arb.ca.gov/cc/capandtrade/auctionproceeds/communityinvestments.htm>

¹ <https://calepa.ca.gov/EnvJustice/GHGInvest/>

2. New Zero-Emission Vehicles

Hydrogen fuel cell and battery electric-powered vehicles emit zero tailpipe emissions and therefore are eligible for HVIP. Other technologies, which emit zero-emissions when in operation, may be considered for HVIP eligibility on a case-by-case basis. Hydrogen Fuel cell vehicles must not have plug-in capacity.

- a. The vehicle must be a new vehicle as defined in California Vehicle Code Section 430.²
- b. For the purposes of HVIP, a new chassis that has been converted with aftermarket parts or equipment to create a zero-emission vehicle is not considered a new vehicle, unless the completed zero-emission vehicle has obtained CARB new vehicle certification. HVIP-eligible vehicle (and vehicle chassis) must be new and not yet have been registered in any state or paid for by the purchaser (other than a vehicle down payment) in order to receive a voucher. Used vehicles (including vehicles used by dealers, manufacturers, or other entities or for demonstration purposes) are not eligible for HVIP. Any delivered chassis must match the chassis listed on the corresponding CARB Executive Order.
 - i. A Vehicle Emissions Control Information (VECI) label must be provided on the chassis and the information must match the CARB Executive Order.
- c. Zero-emission vehicle makes/models must fall into one of the following categories to apply to CARB for HVIP eligibility:
 - i. Zero-emission vehicles from 8,501 to 14,000 lbs GVWR that are CARB-certified as Type I, I.5, II or III zero-emission vehicles as defined in the California ZEV Regulation (Section 1962(d)(5)(A), Title 13, California Code of Regulations (CCR) for 2003-2008 model year vehicles and Section 1962.1(d)(5)(A), Title 13, CCR for 2009 and subsequent model years). Those vehicles from 8,501 to 10,000 lbs GVWR may apply for HVIP eligibility; however, eligibility for this lightest vehicle class is provided on a case-by-case basis only if the vehicle is exclusively for commercial (not personal) use, and meets the intent of HVIP.
 - ii. Zero-emission vehicles above 14,000 lbs GVWR that are CARB-certified. The manufacturer must also certify that the vehicle model complies with all applicable federal safety standards for new motor vehicles and new motor vehicle equipment issued by the National Highway Traffic Safety Administration. The Federal Motor Vehicle Safety Standards are found in Title 49 of the Code of Federal Regulations (CFR) Part 571.
 - iii. If a written statement and documentation have been previously provided to CARB in the course of applying for CARB approval/certification of the vehicle model, no additional written statement is required.

² Per section 430 of the California Vehicle Code, a "new vehicle" is a vehicle constructed entirely from new parts that have never been the subject of a retail sale, or registered with the California Department of Motor Vehicles, 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.

- d. The vehicle must demonstrate a minimum 35 mile all-electric range (AER). CARB retains sole authority to determine the appropriate procedure to perform AER demonstration.
- e. The vehicle must be demonstrably designed exclusively for commercial use (i.e. not intended for private or non-commercial use). Specific criteria for Class 2b vehicles will be developed by CARB in consultation with manufacturers, when those products become available, and posted on the HVIP website.
- f. Zero-emission terminal and yard trucks were transitioned to the Clean Off Road Equipment (CORE) Voucher Incentive Project in February 2020, and are no longer eligible for HVIP funding.
- g. Zero-emission transit buses are required to have passed Federal Transit Administration's (FTA) New Model Bus Testing Program (often referred to as "Altoona Testing")

3. Zero-Emission Vehicle Conversions

New or in-use vehicles with any fuel type that convert to zero-emission, including battery electric and hydrogen fuel cell technologies. Hydrogen Fuel cell vehicles must not have plug-in capacity.

- a. For conversions of any type of vehicle to zero-emission, the aftermarket conversion kits must receive an exemption executive order (EO) from CARB.³
- b. A voucher will not be issued until the vehicle conversion is verified by the Grantee, CARB, or CARB's designee.
- c. The maximum chassis age for zero-emission vehicle conversions is ten years. CARB may consider chassis older than ten years on a case-by-case basis.
- d. Refer to the Voucher Tables (Section C(4)) for zero-emission vehicle conversion voucher amounts.
- e. Conversions must demonstrate proof of compliance with the AER requirements.

4. New Plug-In Hybrid Vehicles

- a. The vehicle must be a new vehicle as defined in California Vehicle Code Section 430.⁴
- b. The vehicle must demonstrate a 35 percent improvement or greater in fuel economy relative to its baseline and a minimum 35 mile all-electric range (AER).
- c. For the purposes of HVIP, a new chassis that has been converted with aftermarket parts or

³ For more information, go to: <https://ww3.arb.ca.gov/msprog/aftermkt/aftermkt.htm>

equipment to create a hybrid vehicle is not considered a new vehicle, unless the completed hybrid vehicle has obtained CARB new vehicle certification. HVIP-eligible vehicle (and vehicle chassis) must be new and not yet have been registered in any state or paid for by the purchaser (other than a vehicle down payment) in order to receive a voucher. Any delivered chassis must match the chassis of the corresponding CARB Executive Order.

- d. Used vehicles (including vehicles with over 3,500 miles) are not eligible for HVIP.
- e. Plug-In Hybrid vehicle makes/models must fall into one of the following categories to apply to CARB for HVIP eligibility:
 - i. A plug-in hybrid vehicle from 8,501 to 10,000 lbs GVWR which is CARB-certified to be sold in California.
 - ii. A CARB-certified plug-in hybrid commercial vehicle between 6,001 and 8,500 lbs may apply for HVIP eligibility; however, vouchers for these vehicles are provided on a case-by-case basis only if a vehicle manufacturer and purchaser can demonstrate the vehicle is for commercial (not personal) use only and meets the intent of HVIP.
 - iii. A plug-in hybrid vehicle greater than 10,000 lbs GVWR which is CARB-certified to be sold in California as an original, newly manufactured vehicle must follow emission testing requirements within the Innovative Technology Regulation (ITR)⁵ for the pathway to HVIP funding eligibility. All A to B testing performed using ITR must result in no increased NOx emissions compared to the equivalent baseline vehicle and demonstrate a minimum 35-mile AER. Manufacturers will be required to present a (portable emissions measurement system) PEMS or chassis dynamometer testing plan that complies with ITR testing requirements. CARB has sole discretion to review and approve the testing plan.
- f. The plug-in hybrid vehicle may not emit more NOx emissions compared to the equivalent baseline vehicle.
- g. The vehicle must use a CARB-certified engine operating on in-state renewable fuel. The engine must be appropriately matched for the intended service class of the hybrid vehicle in which it is used.
- h. A plug-in hybrid vehicle engine must be new.
- i. Modifications to engine performance (including changes in horsepower), emissions characteristics, engine emission components (not including repairs with like-original equipment manufacturers replacement parts), or any other modifications to the engine's emission's control function is not allowed (Vehicle Code 27156).

⁵ <https://ww3.arb.ca.gov/regact/2016/itr2016/hybconvproc.pdf>

5. Vehicles with ePTO

The following vehicle eligibility requirements apply to vehicles equipped with ePTO:

- a. Vehicles with an ePTO powered by lead acid battery technology are not eligible.
- b. Vehicles whose ePTO is powered by a battery chemistry other than lithium ion or other zero-emission technology will be considered for HVIP funding eligibility on a case-by-case basis, with voucher amounts dependent upon technology incremental cost, potential for technology transfer to other vehicle or equipment applications, and other criteria.
- c. An ePTO system must use alternating current (AC) to power the electric motor and have a voltage of at least 40 volts. An ePTO system using direct current may be approved by CARB Project Liaison on a case-by-case basis based upon evidence the system is robust and will not compromise workplace safety.
- d. The vehicle ePTO system must demonstrate ability to charge from the battery manufacturer recommended minimum state-of-charge (i.e., the remaining battery voltage defined by the manufacturer at which the vehicle engine will turn on to recharge the ePTO battery) to fully charged within twelve hours when plugged in. The manufacturer recommended minimum state-of-charge utilized during HVIP eligibility application ePTO demonstration may not be adjusted in-use for a minimum of three years from the vehicle's HVIP voucher redemption date.
- e. When the ePTO system is engaged at the jobsite, heating, ventilation, and air conditioning (HVAC) cab comfort must be powered by the ePTO battery.
- f. The vehicle must include a telematics device that electronically tracks:
 - i. Vehicle location
 - ii. Time of operation in ePTO mode
 - iii. Telematics data for DACs: All work vehicles with ePTO, except military vehicles, shall be equipped with a data acquisition system capable of collecting vehicle GPS data. Each vehicle manufacturer shall be responsible for providing quarterly reports for each vehicle to the Grantee. Each quarterly report shall have current quarterly and cumulative data listing the following information:
 - a. Hours and percentage of total time when the vehicles are parked and operating in ePTO mode (engine off, providing work power from batteries) within a DAC.
 - iv. Each report shall be broken into two groups:
 - a. Vehicles domiciled in a DAC.
 - b. Vehicles not domiciled in a DAC.
 - v. Grantee shall provide manufacturer a list of vehicles for each quarterly report.

- vi. Vehicle manufacturers shall provide a minimum of three years of data for vehicles from the date of voucher payment.
- vii. For DAC mapping data files, please visit CARB's Disadvantaged and Low-income Communities Investments website at:
<https://www.arb.ca.gov/cc/capandtrade/auctionproceeds/communityinvestments.htm>
- g. Class 5/6 ePTO Plug-In Requirement:
 - i. Class 5/6 ePTO Plug-In Vehicle purchasers must agree to provide access to necessary charging equipment at the domicile location, or a copy of their company's charging policy showing plug-in access.
- h. Work vehicles with ePTO may be deemed HVIP-eligible by CARB staff based on a demonstration that the vehicle engine does not idle to recharge the battery or to power the truck mounted hydraulic, pneumatic or electric work equipment utilized for performing stationary work in a typical workday.
 The use of video conferencing and/or telematics data collection will be required unless specified by the CARB Project Liaison for ePTO demonstration. The CARB Project Liaison and manufacturer applicant will agree on the demonstration method on a case-by-case basis.
 - i. The CARB Project Liaison may also require in-person demonstration. In-person demonstration must be conducted within a 100-mile radius of CARB headquarters in Sacramento, California unless an alternate location is preapproved by the CARB Project Liaison.
- i. The following procedures are required for the demonstration of utility bucket trucks. The CARB Project Liaison or his designee may approve in writing modifications to the ePTO demonstration procedures listed below.

Demonstration of ePTO Systems on Aerial Vehicles with GVWR 26,001+ lbs

The ePTO demonstration consists of three steps:

- The CARB Project Liaison or his designee approves in writing a vehicle and ePTO duty cycle that reflects a typical work day. The duty cycle must include the following parameters:
 - At least 45 minutes of total boom movement with at least 175 lbs in the bucket, including a minimum of 22.5 minutes of vertical boom movement and 22.5 minutes of horizontal boom movement. Each boom movement must extend to maximum achievable boom left/right and up/down positions.
 - At least five minutes of air conditioning, running at maximum capacity with the cab windows closed.
 - Vehicles with a battery charge while driving feature may include up to one hour of driving as part of the duty cycle. Drive cycles will be considered by the CARB Project Liaison on a case-by-case basis, and

must reflect a suburban driving environment (i.e. moderate speeds and number of stops).

Demonstration of ePTO Systems on Aerial Vehicles with GVWR 16,000-26,000 lbs

Due to differing duty cycles of Class 5 and Class 6 aerial vehicles, the following demonstration is required for ePTO installed on aerial vehicles with GVWR between 16,001-26,000 lbs.

The work cycle is defined as 6 job sites with 10 miles between each job site. At each job site, the vehicle will perform one aerial boom cycle as defined below.

- An aerial boom cycle consists of taking the aerial device from the stowed position, to a defined working position, and returning to the stowed position.
- From stowed to the working Position: Activate upper and lower boom simultaneously until upper boom reaches 45 degree above horizontal and lower boom is completely unfolded or vertical. Rotate machine 90 degrees. Extend upper boom if unit is equipped with a telescopic boom section.
- From working position to the stowed position: stow the unit fully in the reverse order, retracting telescopic boom sections, rotating, and lower the upper and lower boom simultaneously. A cycle is considered completed once the aerial device has returned to the stowed position.
- ePTO systems must be able to perform the below defined demonstration without fully depleting the ePTO battery and without engine auto-start in order to be eligible for funding. During the ePTO demonstration, the battery state-of-charge (SOC) must be recorded for each of the steps below. The ePTO demonstration consists of the following:
 - Park the test vehicle at the test site and conduct pre-operational safety procedures, as applicable.
 - Place the vehicle into ePTO mode and set the outriggers, if applicable
 - Engage the aerial device controls and perform one aerial boom cycle (as described above)
 - Return aerial boom to the stowed position and operate at least five minutes of air conditioning, running at maximum capacity with the cab windows closed.
 - Drive vehicle for a total of 10 miles and return to test site.
 - Repeat steps 1-5 to simulate a second jobsite.
 - Repeat steps 1-5 to simulate a third jobsite.
 - Repeat steps 1-5 to simulate a fourth jobsite.
 - Repeat steps 1-5 to simulate a fifth jobsite.
 - Repeat steps 1-5 to simulate a sixth jobsite.
 - Record final battery SOC.

- j. For the demonstration of non-utility bucket truck ePTO systems, the CARB Project Liaison and manufacturer applicant will develop and agree on the testing procedure on a case-by-case basis.

6. New and Repowered Vehicles Using Engines certified to the optional Low NOx standard of 0.01 g/bhp-hr

Below are the minimum criteria necessary for a vehicle equipped with or repowered with an engine certified to the optional Low NOx standard of 0.01 g/bhp-hr. Once a vehicle is equipped with such an engine, the vehicle must continually meet the minimum criteria as stated. The telematics requirement (Section B(1)(l)) does not apply to this section.

- a. New vehicles must be equipped or repowered with an engine certified to 0.01 g/bhp-hr
- b. The engine must be covered by a manufacturer warranty. The warranty must provide protection for a minimum of 3 years or 50,000 miles, whichever comes first or 2 years or 250,000 miles, whichever comes first.
- c. The engine warranty requirements in HVIP applies to vehicles receiving funding and is not intended to supplant or limit the certification requirements. The emissions warranty specified in title 13 CCR section 2036, remain applicable to engines used in HVIP-funded vehicles. For example, for an engine used in a heavy heavy-duty Class 8 vehicle (33,000 lbs. and greater gross vehicle weight rating) that is funded, the engine emissions warranty would be as specified in title 13 CCR section 2036.
- d. If the engine is for a repower, the engine repower must be performed by an installer authorized by the engine manufacturer.
- e. Fleets using natural gas internal combustion engines are required to self-certify per the Terms and Conditions that they are refueling with 100% California-produced Renewable Natural Gas (RNG) for a minimum of three years, either at public stations, via a fuel contract, or both.

Annual Participant Surveys (Section D(2)(a)) are sent to HVIP purchasers in the fall. Continued usage of renewable fuel will be monitored via the Survey for a three-year period. Fleets that fail to submit the annual vehicle surveys/questionnaires as required from any HVIP funding year are ineligible for additional HVIP vouchers while this information remains outstanding.

CARB, at its sole discretion, may request documentation from Natural Gas Internal Combustion engine purchasers to verify the use of 100 percent California-produced RNG. Natural Gas Internal Combustion engine purchasers not adhering to the in-State RNG requirement may be barred from eligibility for HVIP and other CARB incentives.

C. VOUCHER REQUIREMENTS

HVIP vouchers shall only be provided for a specific vehicle or engine ordered and purchased by a specific customer. The dealer must work with the vehicle or engine purchaser to complete the HVIP voucher request form (available once a voucher request is submitted through the Voucher Processing Center (VPC)). Voucher funds are reserved at the time of the electronic voucher request. **Submittal of a voucher request not associated with a binding vehicle or engine order is prohibited. Vouchers requested for vehicles that have already been delivered will not be accepted.**

Only vehicles approved by CARB and listed as eligible on the HVIP webpage may receive a voucher. HVIP funds the purchase/order of a completed vehicle, a vehicle that requires no further manufacturing operations to perform its intended function, upon delivery to purchaser. Incentive amounts are also listed on the HVIP webpage⁶, as well as introductory information on how to participate in HVIP. HVIP approved dealers will only have access to request vouchers for the vehicles they are listed as sell in the HVIP Eligible Vehicle Catalog⁷. For the purposes of HVIP, the Purchaser is the fleet that will purchase or lease the eligible vehicle and operate the vehicle for at least three years. A dealership or leasing entity is not a purchaser. HVIP transactions will only involve a purchaser, a dealer, and a manufacturer. All communications and responsibilities are exclusively between these parties.

A valid signed Purchase Order (or other binding Agreement, Contract, Buyer's Order, or action/resolution by a government entity's governing body) is required at the time a voucher request is made. Non-binding agreements are not sufficient to reserve a voucher. The Purchase Order must include the purchaser and dealer names, HVIP voucher amount, number of units (if a batch request), model and year of the vehicle, issued date, HVIP eligible vehicle description, and the purchaser's signature. If the fleet / operator is leasing instead of purchasing, then the end-user fleet / operator must also be named on the Purchase Order. The purchase order provided by the dealer must represent a real vehicle order that is ready to be placed.

Additional requirements about Purchase Orders, including how backdated a Purchase Order can be found at CaliforniaHVIP.org prior to the program re-opening to voucher requests or at other times. Case by case requests for accommodation of longer procurement timelines for public fleets can be submitted to voucherprocessing@tetrattech.com.

Once a voucher request is submitted along with the purchase order or other binding sales agreement representing a real vehicle order; the dealer, vehicle, and fleet information cannot be changed. If the voucher is for a lease, the lessee (end-user fleet / purchaser) cannot be changed. If either the dealer, fleet or vehicle information changes after a voucher request is submitted, that voucher will be cancelled. A new voucher may be requested, contingent on funding availability, with the new dealer, vehicle, or purchaser / lessee information. Voucher requests cannot list the dealer as the purchaser or lessee.

⁶ <https://californiahvip.org/>

⁷ <https://californiahvip.org/vehiclecatalog/>

Within 10 days after any voucher request, dealers must: 1) Provide the purchaser's Truck and Bus Regulation (TRUCRS)⁸ ID or compliance certificate to the Voucher Processing Center. If a TRUCRS ID is not available, a signed letter from the fleet purchaser stating that the fleet purchaser is not subject to TRUCRS must be submitted within 30 days. 2) Address any missing information that may have been identified during the initial review of the voucher request, such as a missing Taxpayer Identification Numbers (TIN) or California Carrier Identification Number (CA#), domicile location clarification, or vehicle model year confirmation. Dealers will be contacted within 5 business days of a voucher request regarding any missing information that must be addressed.

The dealer must also provide the vehicle identification number (VIN) (and serial number for repowers) that uniquely identifies the vehicle, along with the vehicle expected delivery date within 60 calendar days of voucher acceptance. Prior to a VIN being issued, a Serial Number or Production Number (typically the last several digits of the VIN) is acceptable for the first 60 calendar days. If the VIN is not available for more than 60 calendar days, the dealer must inform the grantee. This information confirms that the dealer has made an order with the manufacturer. The order should be placed in conjunction with making a voucher request. The Grantee may reject the voucher at this point if the VIN or serial number is not provided or does not match the vehicle identified on the voucher request. Once all voucher request forms and information are received by the Grantee, the voucher request is considered "Approved" and a voucher will be issued.

Automated emails from the Voucher Processing Center will be sent directly to the Dealer regarding voucher status and required actions. However, purchasers will also receive notifications 1) when the Dealer requests a voucher on their behalf, 2) when the voucher has been redeemed by the Dealer, and 3) in any instance wherein the voucher is cancelled for any reason.

Purchasers should notify voucherprocessing@tetrattech.com of the email address that should receive these messages changes. Dealers must keep their contact information current via the Voucher Processing Center or by updating dealertraining@californiahvip.org.

The dealer and purchaser are responsible for checking the HVIP website on an ongoing basis for the latest program updates.

1. Voucher Caps

Purchaser cap: Each fleet /purchaser is limited to placing 30 voucher requests per calendar year, except for drayage fleet / purchasers which are limited to placing 50 voucher requests per calendar year. Vehicles under common ownership or control that share a common TIN or CA# are considered part of a single fleet even if they are part of different subsidiaries, divisions, or other organizational structures of a company or government agency. If a fleet already has 30 vouchers at the status of "Accepted" or higher in the Voucher Processing Center in a given calendar year, any additional voucher requests for

⁸ <https://ww2.arb.ca.gov/our-work/programs/truck-and-bus-regulation>

that fleet will be rejected and the dealer and fleet will be notified. It is the responsibility of dealers to determine fleet eligibility.

Manufacturer cap: The manufacturer rolling “soft” cap allows each manufacturer (or parent company, as defined by TIN) to hold up to 100 unredeemed vouchers at a time across all of the manufacturer’s HVIP-eligible product line and approved Dealers. As a manufacturer redeems vouchers, more vouchers will become available for vehicles from that manufacturer. Under the “soft” cap, manufacturers can be granted additional vouchers beyond the cap on a case-by-case basis.

The cap does not prevent vouchers from being requested for a manufacturer’s technologies; rather it triggers the requirement for a case-by-case review process by CARB in order for those additional vouchers to be accepted.

If a batch request causes the cap to be exceeded, the quantity of voucher requests in the batch that are below the cap can proceed while the quantity that are above the cap will require case by case review.

If a manufacturer has 100 unredeemed vouchers and the manufacturer or a dealer wants to request additional vouchers, the manufacturer or dealer may submit a case-by-case request to voucherprocessing@tetrattech.com for consideration at CARB’s sole discretion. The case-by-case request must provide the details of the request and must be signed by the manufacturer. The request must affirm the production timeframe and ability to deliver within the maximum allowed voucher term of 540 days for all currently unredeemed vouchers. The evaluation includes documentation from the manufacturer regarding their build progress and delivery plan for unredeemed vouchers as well as past delivery performance.

Manufacturers shall contact voucherprocessing@tetrattech.com for instructions on how to submit a case-by-case request.

The cap does not prevent vouchers from being requested for a manufacturer’s technologies; rather it triggers the requirement for a case-by-case review process by CARB in order for those additional vouchers to be accepted. Vouchers exceeding 100 will remain in the Voucher Processing Center — maintaining their reserved funds and place in line relative to other voucher requests — during case-by-case review, however they will not be accepted until and unless approved by CARB.

2. Voucher Renewal

A voucher will be valid for 90 calendar days from the time it is issued by the Grantee. A voucher may be renewed by the participating dealer at any point within those 90 days through the modification of the electronic voucher record online. Renewal of the voucher automatically reserves the eligible vehicle’s and purchaser’s voucher funding for an additional three months. A voucher not renewed within a three-month period may be deemed expired and the voucher funds may be allocated to the next eligible participant.

A voucher may be renewed at three-month intervals for up to a total of 540 days from the time of the electronic voucher request and must be redeemed at that point. Request for voucher extensions beyond 540 days will be reviewed by the Grantee in consultation with CARB on a case-by-case basis. A decision regarding extension of the voucher reservation beyond 540 days shall be made by the Grantee in consultation with CARB, and shall be based upon factors, including but not limited to the projected vehicle DMV registration date, demand from other participants for remaining available HVIP funding, and the good faith efforts of the purchaser, dealer and manufacturer to complete the purchase and place the vehicle into service. The Grantee must maintain written documentation regarding approval of voucher reservations that are extended beyond a 540 days for three years after voucher redemption.

3. Voucher Redemption

Only completed and accurate voucher redemption forms will be accepted. A voucher shall only be redeemed if the vehicle and purchaser / lessee match that on the original voucher request form. CARB, the Grantee, and HVIP are not responsible for payment of a voucher if the vehicle or purchaser do not match those described on the voucher request form. If the dealer has a new purchaser for a delivered vehicle and HVIP funds are still available, the dealer and new purchaser may request a new voucher.

Once a vehicle has been registered at DMV and is ready to be placed into service, the dealer must submit the voucher and required documentation to the Grantee for redemption. All items listed below in times 3.a – 3.o must be submitted via the online Voucher Processing Center before the voucher can be redeemed. A voucher will only be honored if the vehicle and purchaser listed on the voucher match that in the completed purchase transaction. HVIP voucher redemption requests must also meet the following criteria

- a. An HVIP voucher can only be redeemed upon vehicle delivery, final payment to the dealer by the purchaser (less the voucher amount), and registration of the vehicle in California.
- b. For vehicles repowered with engines certified to the optional Low NOx standard of 0.01 g/bhp-hr as of the publication of this Implementation Manual, vouchers may be redeemed when the customer takes delivery of the engines and has paid the balance due (minus incentive amount).
- c. Fleets / purchasers may only request vouchers for those engines that are anticipated to be installed within 90 calendar days of the date of voucher request. For large engine orders (more than 50), fleets will be required to break the voucher requests into smaller increments that represent no more than 90 days of inventory.
- d. A copy of the final vehicle invoice and temporary California Department of Motor Vehicle (DMV) registration or DMV registration for the purchased vehicle must be provided to confirm delivery and purchase specifications. DMV Form REG397 (request for registration) may be submitted in lieu of completed registration; grantee will contact the purchaser within 180 days after voucher redemption to obtain a copy of the completed registration. CARB may approve HVIP vouchers

for vehicles that are federally registered in lieu of being registered in California (such as military vehicles) on a case-by-case basis.

- e. A copy or photo of the VIN tag listing the GVWR must be provided to the Grantee to confirm vehicle GVWR. The GVWR on the VIN tag must match the GVWR provided on the voucher request form.
- f. For engines, a copy of the final signed and dated repower invoice containing the VIN and engine serial number must be provided to the Grantee.
- g. The invoice for the complete vehicle must be signed and dated by the vehicle purchaser .
- h. The final vehicle invoice must show that the voucher amount has been fully discounted from the vehicle or engine purchase price.
- i. The vehicle must have no more than 3,500 miles at time of the vehicle inspection. Proof of vehicle mileage at the time of vehicle DMV registration must be provided by the dealer in the form of a telematics mileage report, DMV odometer disclosure statement, or photo of the odometer upon delivery. Vouchers for vehicles with more than 3,500 miles may be redeemed on a case-by-case basis with CARB's sole approval and with sufficient evidence or explanation justifying such mileage. Not applicable for engine repowers.
- j. Vehicle model year, vehicle model name, chassis, chassis model year, and configuration on redemption paperwork must be identical to the corresponding CARB issued Executive Order.
- k. Financial documentation identifying the method and date of final payment to the dealer must be provided to the Grantee prior to voucher redemption. This can be a copied check or transaction showing an electronic money transfer. If lease or financial arrangements involve a third party, they must also be identified with the title or lien-holder clearly indicated. Digital inspection photos of the vehicle showing that it is ready to be placed into service must be provided prior to voucher redemption. In instances where vouchers for an order of 10 or more vehicles are being redeemed at the same time, a "group photo" may be uploaded, however a list of the VINs of all pictured vehicles must accompany the photo.
- l. A HVIP Vehicle Inspection Form signed by an HVIP Approved Dealer or Manufacturer must be submitted electronically prior to voucher redemption.
- m. A signed copy of the voucher redemption form must be provided prior to voucher redemption. The Dealer and purchasing fleet must sign electronically.
- n. All documents that are submitted to the Grantee or its subcontractor for processing voucher redemption must clearly indicate the voucher number or the VIN.
- o. The dealer must submit all voucher redemption documentation within 60 calendar days of receipt of payment. Failure to provide all the required documentation by this deadline may nullify the voucher. Payment is inclusive of the vehicle itself but does not need to include

related items such as vehicle training that the dealer / manufacturer may be providing to the purchaser.

When program funding is available, it is the goal of HVIP to provide payment to the dealership within seven business days from the time the eligible voucher redemption form and all associated documentation is received by the Grantee. If the voucher payment is delayed for more than ten business days from the time the eligible voucher redemption form and associated documentation is received, the Grantee will notify the dealership by phone or email at the earliest possible time of such delay.

Dealers and participating fleets that provide false or misleading information may be barred from future participation in CARB incentives and may be subject to enforcement action or other legal remedies at CARB's sole discretion.

It is the Grantee's responsibility to notify the dealer that the voucher request has been rejected in writing within five business days of receipt of signed forms or vehicle documentation that disqualifies the vehicle and/or voucher request. Any rejections will include the reason for a rejected voucher request.

Voucher applications that have been denied or cancelled by the Grantee may be evaluated within 10 calendar days of the date of the cancellation. If the only basis for an appeal is that the applicant disagrees with the policies set forth in HVIP Terms and Conditions and the Implementation Manual, there is no basis for an appeal. A formal letter of appeal must be submitted by email to patrick.chen@arb.ca.gov, within 10 calendar days of a denied or cancelled application.

4. Vehicle Voucher Amounts

All eligible vehicles may receive an HVIP voucher for up to the funding amounts identified in the tables below. Incentive amounts for zero-emission Class 2b vehicles and eligible engines will be determined by CARB in consultation with manufacturers, when those products become available, and posted on the HVIP website. The Public Transit Bus Plus-up found in Table 3 are reserved for transit buses purchased by a city or county government; a transportation district / transit district; or a public agency. Public transit includes paratransit services operated by a public transit agency. Only vehicles domiciled in a Disadvantaged Community are eligible for the Disadvantaged Community voucher enhancement. The Class 8 Fuel Cell plus-up is for vehicles fueled exclusively with hydrogen and not capable of being recharged with electricity.

Zero-Emission Vehicle (ZEV) Voucher Table

Vehicle Weight Class	Base Vehicle Incentive
Class 2b	TBD
Class 3	\$45,000
Class 4-5	\$60,000
Class 6-7	\$85,000
Class 8	\$120,000
Class 8 Drayage Truck Early Adopter ¹	\$150,000

¹Drayage tractor voucher amounts revert to Class 8 voucher amounts on 12/31/21

ZEV Voucher Modifiers (plus-ups and discounts from base)	
Disadvantaged Community	+10%
Class 8 Fuel Cell	+100%
Public Transit Agencies	+15%
School Buses for Public School Districts	+65%
Plug-in Hybrid (>35 mi AER)	-50%
In-Use Converted/Remanufactured	-50%

Eligible ePTO Voucher Amounts

Energy Storage Capacity	Base Vehicle Incentive ¹
3 – 10 kWh	\$20,000
10 - 15 kWh	\$30,000
> 15 kWh	\$40,000

¹ePTO funding amounts may cover up to 50 percent of the incremental cost of the ePTO vehicle, not to exceed the funding levels listed in this table.

An approved vehicle's voucher amount is determined by the vehicle's Base Vehicle Incentive which is associated with the vehicle's weight class and then multiplied by the appropriate modifiers. A plus-up modifier increases the voucher amount while a discount modifier decreases the voucher amount. There can be multiple modifiers, but the additions or subtractions do not compound. For example, a full-sized urban bus (class 8, \$120,000), sold to a transit agency (15% x \$120,000), and domiciled in a DAC (10% x \$120,000) would receive the base voucher amount of \$120,000 plus the sum of its modifiers (\$18,000 + \$12,000), or \$150,000. Dealers must indicate claimed plus-up(s) when requesting a voucher. Documentation submitted during voucher request and/or redemption will be used to confirm claimed plus-up eligibility and final voucher amount.

In order to qualify for the Drayage Truck Early Adopter incentive, purchasers must have had at least one vehicle listed in the CARB Drayage Truck Registry in 2020 or earlier or submit a copy of their permission to enter a port or railyard to voucherprocessing@tetrattech.com within 30 calendar days of the voucher request. Acceptable documentation includes Uniform Intermodal Interchange and Facilities Access Agreement UIIA Authorization, concession agreements, or other forms of drayage operations permissions.

Drayage trucks are defined by CARB regulation Article 4.5, Chapter 1, Division 3, title 13, section 2027, California Code of Regulations **as:** Any in-use on-road vehicle with a (GVWR) greater than 33,000 pounds that is used for transporting cargo, such as containerized, bulk, or break-bulk goods, that operates on or transgresses through a port or intermodal railyard property for the purpose of loading, unloading or transporting cargo, including transporting empty containers and chassis or off port or intermodal railyard property transporting cargo or empty containers or chassis that originated from or is destined to a port or intermodal railyard property.

Drayage trucks are not: Vehicles operating off of port or intermodal railyard properties that transport cargos that have originated from a port or rail yard property but have been off-loaded from the equipment (e.g., a trailer or container) that transported the cargo from the originating port or rail yard or Vehicles operating off of port or intermodal railyard properties that transport cargos that are destined for a port or rail yard but will be subsequently transferred into or onto different equipment (e.g., a trailer or container) before being delivered to a seaport or intermodal railyard.

5. Disadvantaged Communities Voucher Enhancements

In 2014, the California Environmental Protection Agency (Cal/EPA) identified disadvantaged communities for the purposes of SB 535 using the California Communities Environmental Health Screening Tool (CalEnviroScreen 2.0). In 2017, Cal/EPA updated the list of disadvantaged communities based on the newer CalEnviroScreen 3.0 model and identified low-income communities for the purposes of implementing AB 1550. CARB will use the 2017 CalEnviroScreen 3.0 based list of disadvantaged communities and the new low-income communities to determine compliance with AB 1550

requirements. More information on the CalEnviroScreen model and disadvantaged communities is available on Cal/EPA's website⁹.

To ensure that HVIP continues to meet its goal of providing funding in disadvantaged communities, and to satisfy AB 1550 requirements, a set aside of HVIP funding might be needed. Throughout the project year, if data shows that HVIP is not meeting AB 1550 goals, funding will be earmarked for vehicles located in disadvantaged communities. As part of the reporting requirements associated with Low Carbon Transportation funding, CARB will track where these funds are spent so the portion that is spent in disadvantaged and low-income communities can be calculated and reported in future annual reports to the Legislature.

Dealers are responsible for indicating DAC eligibility on the Voucher Request Form, and the Grantee will verify to ensure the DAC incentive is applied to all eligible vouchers: Voucher enhancements will be applied for domicile addresses that fall within the boundaries of a DAC using the mapping tool at: <https://www.arb.ca.gov/cc/capandtrade/auctionproceeds/communityinvestments.htm>

6. Maximum Allowable Voucher Amount

For privately owned vehicles, the total voucher amount including HVIP Base Vehicle Incentive plus voucher enhancements, plus all other eligible public incentives – or other discretionary public funding such as grants -- may not exceed 90 percent of the total vehicle cost (excluding taxes and fees). For publicly owned vehicles, including public school buses, public transit buses, and municipal vehicles, the sum of HVIP and other eligible public funding may not exceed the full vehicle cost including taxes and fees. HVIP funding may not pay for any taxes or fees. Taxes and fees must be paid for by another funding source. The total vehicle cost is to be determined by CARB in consultation with the vehicle manufacturer, based upon the vehicle sale price, typical industry standard costs for that vehicle technology and type, and other factors. In addition, HVIP voucher amount for vehicles equipped with ePTO may not exceed the cost of the ePTO system. For plug-in hybrid heavy-duty vehicles, funding amounts may cover up to 50 percent of the incremental cost of the hybrid vehicle, not to exceed the funding levels listed in the Voucher Tables (Section C(4)).

HVIP vouchers for zero-emission vehicles are not restricted to vehicle incremental cost, in order to help accelerate the market for this more advanced and costly vehicle technology.

7. Combining With Other Funding Sources

HVIP vouchers may be combined or “stacked” with other eligible public incentives, where applicable, to further support fleet purchase decisions. HVIP's intent is to substantially offset the cost of new technology, without exceeding the amount of public funding needed to influence a purchase decision.

⁹ <http://www.calepa.ca.gov/EnvJustice/GHGInvest/>

To stack eligible public incentives, the dealer and purchaser must ensure that all of HVIP's and respective public incentive program's requirements and policies regarding the stacking of public funds are met. Local- and federal-funded incentives may be combined with HVIP vouchers, so long as each incentive program is not paying for the same incremental costs or the total sum of incentives does not exceed the total cost of the vehicle.

Local incentives that may be combined with HVIP include programs administered by local air districts or local municipalities that are locally funded. AB 923 funds administered by local air districts may also be combined with HVIP for school buses only. Examples of programs funded by local air districts and not the State that may be stacked with HVIP include, but are not limited to, the following:

- Sacramento Metropolitan AQMD's Sacramento Emergency Clean Air & Transportation (SECAT) Grant Program
- South Coast AQMD's Mobile Source Air Pollution Reduction Review Committee (MSRC) grants
- Bay Area AQMD's Mobile Source Incentive Fund and Transportation Fund for Clean Air
- San Joaquin Valley Air Pollution Control District's Heavy-Duty Truck Replacement Program

Federal incentive programs may be combined with HVIP vouchers, including funding provided by the Federal Transit Administration (FTA), the Department of Energy (DOE), and other federal agencies.

Except for public transit buses, stacking HVIP with State-funded incentives is not allowed. The list of State-funded incentive programs that MAY NOT be combined with HVIP include, but are not limited, to the following:

- California Climate Investments (CCI)
- Volkswagen Environmental Mitigation Trust for California (VW Mitigation Trust)
- Carl Moyer Memorial Air Quality Standards Attainment Program (Carl Moyer Program)
- Community Air Protection Incentives to Reduce Emissions in AB 617 Communities
- Goods Movement Emission Reduction Program (Prop 1B Program)
- Transit and Intercity Rail Capital Program (TIRCP)
- Low Carbon Transit Operations Program (LCTOP)
- Alternative and Renewable Fuel and Vehicle Technology Program (ARFVTP)

Transit buses operated by a city or county government; a transportation district / transit district; or a public agency, including paratransit services, are the exception to the above requirements and may stack State-funded incentives with HVIP. When stacking HVIP vouchers with other funding sources for public transit buses, HVIP funding may be combined with the provision that HVIP will only fund the remaining cost up to the maximum voucher amount after the other incentives have been applied at their maximum allowable amounts.

8. Example Calculations

This section provides example calculations of the maximum allowable HVIP voucher amount, based upon assumptions regarding other potential funding sources. These examples are for illustrative purposes only. The actual maximum voucher amount will depend upon each specific circumstance.

EXAMPLE 1: A local air district grant provides \$100,000 to a private fleet to replace an old truck with a new \$140,000 diesel truck of 35,000 lbs GVWR. HVIP augments this grant by providing a \$150,000 voucher for the purchaser to upgrade to a \$300,000 zero-emission truck. The zero-emission truck incremental cost is \$160,000. HVIP voucher amount combined with the air district funding cannot exceed 90 percent of the zero-emission vehicle purchase cost (excluding taxes and fees). HVIP funding may not pay for any taxes or fees. Taxes and fees must be paid for by another funding source.

In this case, \$150,000 HVIP voucher < \$160,000 vehicle incremental cost

\$100,000 district grant + \$150,000 HVIP voucher = \$250,000

\$300,000 * 90 percent = \$270,000

\$250,000 total public funds < 270,000

The transaction can proceed without discounting HVIP voucher.

EXAMPLE 2: Transit agencies receive an 80 percent grant from the FTA for most new vehicle purchases, including new zero-emission vehicle purchases. For example, suppose a public transit agency receives a \$640,000 FTA grant towards the purchase of a new \$800,000 battery-electric zero-emission transit bus of 45,000 lbs. GVWR. The transit agency also receives \$20,000 in Congestion Mitigation and Air Quality (CMAQ) funding for the bus. In this example, the transit fleet is also receiving \$100,000 from CalSTA's Transit and Intercity Rail Capital Program (TIRCP). Since it is a zero-emission public transit bus, the sum of HVIP voucher and all other public incentives may not exceed the full vehicle cost and funding from other state incentive programs may be combined. Therefore, the maximum allowable HVIP voucher could not exceed \$40,000 as HVIP vouchers may be applied after all other funding sources have been accounted for.

\$640,000 FTA Grant + \$20,000 CMAQ Funding + \$100,000 TIRCP Funding

= \$760,000 Other Public Incentive Funds

HVIP voucher cannot exceed \$40,000

The maximum allowable voucher amount may not exceed \$40,000 since the sum of all public incentives cannot exceed the full vehicle cost. The HVIP voucher will be discounted to \$40,000.

EXAMPLE 3: A trucking fleet is replacing a 2009 Class 8 truck with a new zero-emission truck. The fleet has secured funding from the Volkswagen (VW) Environmental Mitigation Trust. This vehicle is not

eligible for an HVIP voucher because it is already receiving incentive funding from another state incentive program and the fleet is not a public transit agency purchasing a zero-emission transit bus.

9. Project Oversubscription and Waitlist

When available voucher funding is fully subscribed, CARB has sole discretion to permit a waitlist, and only if adequate funding will be available in the following budget cycle to cover a waitlist. Waitlisted voucher requests will be submitted to the Grantee following existing voucher processing procedures.

When funding is available, waitlisted voucher requests will be reviewed in the order they were received by the Voucher Processing Center. If CARB provides case-by-case approval for any dealers / manufacturer to deliver a waitlisted vehicle during the waitlist period, any such voucher requests will be reviewed first when funding is available.

All waitlisted voucher requests for vehicles that will be leased require a lessee to be named on the request. All waitlisted voucher requests must include a vehicle model year that is included in the HVIP Eligible Vehicle Catalog.

D. DUTIES AND REQUIREMENTS

1. Vehicle Dealers

a. ELIGIBLE PARTICIPANTS

Truck and bus dealers play a central role in HVIP's success. The Grantee will work with CARB to develop/maintain a list of dealers eligible to participate in HVIP, and to receive a written commitment from these dealers to comply with all applicable project requirements. The eligible dealer list will be used to streamline project access while ensuring project transparency and accountability. The following entities may be considered eligible vehicle dealers for the purposes of HVIP:

- i. A truck or bus dealership that has had a valid business license for the past two years, has an official dealer license and has a written agreement with a medium- or heavy-duty vehicle manufacturer.
- ii. A truck, van or bus vehicle manufacturer that manufactures HVIP eligible vehicles and engines and sells those vehicles and engines directly to fleets.
- iii. A truck, bus or equipment manufacturer that has a written agreement with another medium- or heavy-duty vehicle manufacturer and has had a valid business license for the past two years.

- iv. A manufacturer that manufactures engines certified to the optional Low NOx standard of 0.01 g/bhp-hr, or dealer selling such engines.

The HVIP Approved Dealer is defined as the vendor of the completed vehicle or vendor that sells and installs engines in existing vehicles, and not the vendor of the vehicle chassis. **An HVIP Approved Dealer must be the individual responsible for the final invoice to the purchasing fleet AND delivery of the completed vehicle.**

For the purposes of HVIP, an HVIP Approved Dealer may be considered a dealership or OEM salesperson, grant manager, financial controller, or similar role. Those individuals are responsible for requesting and redeeming vouchers for a vehicle or engine they are approved to sell according to the HVIP Eligible Vehicle Catalog (californiaHVIP.org). An entire dealership (or manufacturing organization) is not entitled to request HVIP vouchers when it employs an HVIP-approved dealer. Rather, individuals at the dealership are responsible for becoming an approved HVIP dealer if they wish to request their own vouchers. Each separate office location of a dealership or manufacturing organization is limited to 3 individual VPC accounts. Sharing VPC accounts with unauthorized users and a VPC account used by multiple individuals are prohibited. Manufacturers or other affiliated parties who are not authorized dealers do not have access to the VPC and can request voucher status information directly from the dealer who submitted the voucher request.

b. HVIP APPROVED DEALER RESPONSIBILITIES

The Grantee will work with vehicle manufacturers to maintain a list of dealers authorized to receive HVIP vouchers. Dealer responsibilities include:

- i. Familiar with all HVIP requirements.
- ii. Participation in dealer training and registration.
- iii. Providing accurate information to vehicle or engine purchasing fleet, the Grantee, and CARB.
- iv. Completing voucher request and voucher redemption forms, with the assistance of the vehicle or engine purchasing fleet, and in supplying the necessary vehicle or engine purchase documentation.
- v. Ensuring access to the correct vehicles in the VPC by checking the HVIP Eligible Vehicle Catalog (californiaHVIP.org) and notifying the Grantee if it appears inaccurate.
- vi. Issuing the final vehicle invoice to the customer and delivering the completed vehicle to the designated domicile location.
- vii. Providing accurate and complete documentation of the vehicle or engine purchase to the Grantee.
- viii. Providing reasonable assistance to CARB or its designee to obtain updated purchaser/fleet information, inspect vehicles, and review HVIP related records during the first three years after vehicle receipt and final payment by the purchasing fleet, whichever is later.

- ix. Frequently checking the HVIP webpage at CaliforniaHVIP.org for updates and announcements.

HVIP is intended to lower the vehicle price for the vehicle or engine purchasing fleet by the full voucher amount. Vehicle dealers must deduct the full voucher amount from the vehicle or engine purchase price to be eligible for a voucher. Sales tax for the vehicle or engine purchase shall be based upon the pre-voucher cost of the vehicle. The invoices provided by the dealer as proof of purchase for voucher redemption must itemize all vehicle charges (e.g., price of the vehicle, delivery fee, all applicable taxes, etc.) and must show the deduction of the voucher amount. Private fleets accessing financing toward the HVIP-funded vehicle must provide proof of a down payment that is at least as much as the voucher amount. Dealers and/or purchasing fleet are required to disclose other sources of public funding. Voucher requests cannot list the dealer as the purchaser or lessee.

Upon CARB case-by-case approval and only when necessary to support the goals of HVIP, vouchers may be reimbursed directly to the purchasing fleet. The fleet will be required to provide CARB additional information including, but not limited to, a signed letter in which they state this request and confirm their understanding that this is a departure from standard HVIP procedure, and a copy of a paid invoice showing the voucher amount was paid to the dealer.

The voucher request form and voucher redemption form both are legally binding and enforceable agreements to meet the requirements of the project. The dealer is responsible for ensuring the accuracy of the vehicle and dealership information on all voucher request or redemption forms submitted to the Grantee. Submission of false information on any of these forms may result in cancellation of the voucher, recapture of funds, and removal from the dealer list. In addition, CARB may seek other remedies available under law.

Participating dealers must keep written records of sales transactions for vehicles funded with an HVIP voucher – including but not limited to the vehicle invoice and proof of purchase -- for three years after the vehicle receipt and final payment by the fleet, whichever is later. A vehicle dealer must provide CARB (or its designee) with all requested information related to compliance with HVIP requirements or any vehicle(s) purchased with a HVIP voucher within ten days of CARB's written request for such information. Requested information may include but is not limited to purchase orders or agreements and vehicle payment information and related bank records.

A dealer with no voucher activity for more than a year may be deactivated from the VPC. Reactivation may require additional dealer training. All dealers associated with unredeemed vouchers (voucher owner) are required to keep their VPC account active, including any required training. This also applies where account sharing is enabled.

Dealers that submit false information to the Grantee or inflate the price of a funded vehicle may be required to return the full voucher amount to the Grantee or CARB, and may be excluded from future participation in HVIP. In addition, CARB may seek other remedies available under law.

2. Vehicle or Engine Purchaser

a. PURCHASER RESPONSIBILITIES

The engine, truck or bus purchaser is responsible for completing the voucher request and redemption forms with the dealer and for paying the non-voucher portion of the vehicle cost. To receive an HVIP voucher, a vehicle purchaser must:

- i. Be a business, non-profit, or government entity which is based in California or has a California-based affiliate. Personal use vehicles are not eligible for HVIP funding. A truck or bus leasing agency based outside of California is also eligible if the vehicle is leased to an entity that will meet all HVIP operational, reporting, and other applicable requirements. A purchaser for the purposes of HVIP is the fleet or individual owner / operator who will operate the vehicle for a minimum of three years after voucher redemption, whether through lease or direct purchase. A purchaser is not a manufacturer, dealership, or leasing company that enters into any agreement with another party to operate the vehicle.
- ii. Be in compliance with the California Truck and Bus Regulation (TRUCRS). Fleets are encouraged to have their TRUCRS Compliance Certificate renewed at the start of each calendar year to facilitate timely compliance checks. Out-of-compliance fleets and businesses are not eligible for HVIP incentives and vouchers for fleets found to be out of compliance with any regulation may be canceled.
- iii. Vehicle manufacturers and dealers may not request vouchers for their own use.
- iv. Maintain insurance as required by law. If the purchased vehicle is destroyed or otherwise permanently inoperable due to a crash or for any other reason, the vehicle or engine purchaser must notify the Grantee. The notification must provide proof that the specific funded vehicle has become inoperable, including photographs of the inoperable vehicle with license plates or other identifying markings, as well as any applicable insurance or police documentation.
- v. Commit to operate the vehicle in California for at least three years after the voucher redemption date. Vehicles registered in a California county that borders another state or Mexico and emergency response vehicles may accrue up to 25 percent of their mileage each year for the three-year reporting period outside of California, without prior approval. Class 8 freight trucks, including port drayage trucks, may accrue up to 50 percent of their mileage each year outside of California without prior approval, as long as goods are being transported to or from California. All other vehicles must operate 100 percent within California for at least three years. Mileage is verified via telematics reporting by the manufacturer.
- vi. Not make or allow any modifications to the vehicle's emissions control systems, hardware, software calibrations, or hybrid system (Vehicle Code Section 27156).
- vii. Submit annual activity reports for three years. Activity reports will be provided by CARB or Grantee for completion by the vehicle or engine purchaser. Fleets and businesses that systematically fail to submit accurate and timely surveys/questionnaires may be prohibited from future HVIP and other incentive participation.

- viii. Agree to Telematics requirements specified in Section B(1)(I), except vehicles equipped with engines certified to the optional Low NOx standard of 0.01 g/bhp-hr as of the publication of this document.
- ix. Allow CARB, the Grantee, or their designee to verify the vehicle registration with the DMV.
- x. Be available for follow-up inspection if requested by the Grantee, CARB, or CARB's designee.
- xi. Military vehicles are not subject to sections d, f, g, h above.
- xii. Disclose all sources of public funding used in combination with HVIP funds.

The vehicle or engine purchaser is responsible for ensuring the accuracy of the vehicle, engine and purchaser information on the voucher request and redemption forms. Submission of false information on either of these forms may be considered a criminal offense and is punishable under penalty of perjury under the laws of the State of California.

Vehicle or engine purchasers must keep written records of the vehicle or engine purchase for vehicles or engines funded with an HVIP voucher – including the vehicle invoice, proof of purchase, and DMV records – for three years after the vehicle or engine purchase transaction. A vehicle or engine purchaser must provide CARB (or its designee) with all requested information related to any vehicle or engine purchased with an HVIP voucher within ten calendar days of CARB's written request for such information. Requested information may include but is not limited to purchase orders or agreements, vehicle payment information and related bank records, and purchaser fleet information. Vehicle or engine purchasers that submit false information to the Grantee or CARB may be required to return the full voucher amount to the Grantee or CARB and may be excluded from future participation in HVIP. In addition, CARB may pursue other remedies available under the law.

b. RESALE OF VEHICLES

Vehicle or engine purchasers participating in HVIP are expected to keep the vehicle and meet all applicable project requirements for a minimum three-year period after the vehicle or engine purchase date. However, resale of a vehicle may be allowed within this three-year period if necessitated by unforeseen or unavoidable circumstances. Resale of an HVIP funded vehicle must receive CARB written approval prior to resale; the name, phone number, and email address of the prospective new purchasing organization must be provided to voucherprocessing@tetrattech.com before the sale. At that time, a copy of the Purchaser Terms and Conditions Form will be provided to the seller for the prospective new purchasing organization to review before the sale. A vehicle or engine purchased with an HVIP voucher may not be resold more than once within three years of the original purchase date.

For vehicles resold within three years of the original vehicle or engine purchase date (and after CARB provides written approval), the original vehicle or engine purchaser must inform the new purchaser in writing about the voucher rebate amount and applicable voucher project requirements. The new vehicle or engine purchaser must agree in writing to meet all applicable HVIP requirements of original vehicle or engine purchasers.

If the vehicle is moved out of the State or resold, and the new vehicle or engine purchaser does not agree in writing to meet all applicable HVIP requirements of the original vehicle or engine purchasers, the vehicle or engine purchaser or lessee must refund promptly to the Grantee a prorated portion of their voucher, in an amount equivalent to the original voucher amount divided by 36 months and then multiplied by the number of months remaining in the original 36 month period (rounded to the nearest month): $(\text{Original Voucher Amount} \div 36 \text{ Months}) \times (36 - \text{months since vehicle or engine purchase or lease date})$.

The original vehicle or engine purchaser must notify CARB Project Liaison in writing of its intent to sell the vehicle at least seven calendar days prior to the vehicle resale. Within seven calendar days after the vehicle resale, the original vehicle or engine purchaser must notify the Grantee that the vehicle has been resold and provide the resale price. Within thirty calendar days after the vehicle resale, the entity buying the vehicle from the original vehicle or engine purchaser must also provide the Grantee with: a copy of the new DMV title documenting of the vehicle resale and terms and conditions signed by the new purchaser, and a written commitment to complete and return the annual usage survey/questionnaire as required by the original voucher. CARB reserves the right to pursue all remedies available under the law for noncompliance with these requirements.

c. VEHICLE LEASING

For the purposes of HVIP, any fleet / end-use operator that enters into a lease agreement of three or more years shall be considered the vehicle or engine purchaser. The lease must be specified on the voucher request form and the lease agreement must be uploaded to the Voucher Processing Center. The vehicle domicile address shall be listed as the lessee fleet address. **Leases shorter than three years are not permitted. Vehicle rentals are not permitted.**

The lessor entity must disclose the voucher amount and voucher terms to the vehicle lessee. The lease agreement must include all commitments needed from the lessee to ensure that 1) the vehicle operates 100 percent in California as required by the voucher redemption form and 2) all required annual Purchaser Surveys will be submitted to CARB.

The cost of the vehicle listed on the lease must match the cost of the vehicle reflected on the final invoice, ensuring that the full value of the voucher has been passed on to the lessee and not to intermediary parties. CARB or its Grantee will review lease agreements to confirm appropriate disclosures are made regarding HVIP voucher amount received and vehicle activity and reporting requirements. The lessor entity must provide CARB (or its Grantee) all requested information related to any vehicle or engine leased with an HVIP voucher within ten days of CARB's written request for such information. An HVIP voucher can be provided at the time of vehicle or engine purchase only, and is not provided at the time a vehicle is leased. If a lease is broken or terminated, the vehicle lessor must notify voucherprocessing@tetrattech.com within 30 calendar days.

In the instance of a Waitlist, any waitlisted voucher requests for vehicles that will be leased require a lessee to be named on the request.

d. BATTERY LEASING

Arrangements in which a vehicle, with the exception of the battery, is purchased and the battery is leased to the vehicle purchaser may be allowed by CARB Project Liaison on a case-by-case basis if the battery lease term is a minimum of three years.

e. SCHOOL BUSES

Eligible Applications for School Bus Funding

Public school districts in California that own their own school buses are eligible to participate in HVIP. This includes public school districts that own their school buses but contract with a County Office of Education or private contractor for maintenance and operations. Where several public school districts have formed a Joint Powers Authority (JPA), and the JPA holds ownership of the school buses, then the JPA is also eligible to participate. Public charter schools that own their own school buses and County Offices of Education that own their own school buses are also eligible to participate.

Private transportation providers that own their own school buses and contract with public school districts to provide transportation services for public school children are also eligible to participate in HVIP.

School Buses Eligible for All-Electric Conversions

School buses with current California Highway Patrol (CHP) safety certifications qualify for an all-electric school bus conversion voucher funding if all other requirements in HVIP are met.

E. OVERSIGHT AND ACCOUNTABILITY

Through administration of longstanding incentive programs such as the Carl Moyer Program, CARB has found that project evaluations and program reviews are essential to ensure that incentive program funds are run in accordance with statutory requirements and that State funds are spent transparently and efficiently. The Grantee is responsible for working closely with vehicle manufacturers, dealers and CARB to safeguard HVIP funds from misuse as it implements HVIP. Vehicle dealers and purchasers participating in HVIP must provide CARB or its designee and the Grantee access to all requested files and relevant information related to vehicle or engine purchases involving an HVIP voucher.

CARB holds the overarching responsibility for HVIP fund oversight and project accountability and has final authority and sole discretion over all aspects of HVIP, including applicant and vehicle and engine eligibility, and all program requirements. As such, CARB is responsible for monitoring and reviewing the Grantee's implementation of HVIP. The Grantee shall allow CARB, the Bureau of State Audits, or their designated representative the right to review and to copy any records and supporting documentation pertaining to its development or implementation of HVIP. The Grantee must maintain such records for a

possible audit for a minimum of three years after final payment from CARB. The Grantee must allow CARB or its designee access to such records during normal business hours and to allow interviews of any employees who might reasonably have information related to such records.

Responsibilities for HVIP oversight include but is not limited to the following:

- a. CARB has primary oversight responsibility for HVIP to ensure transparent and efficient implementation, and that AQIP funds are spent consistent with the requirements of statute, the AQIP Guidelines and Funding Plan, HVIP solicitation and grant agreement with the Grantee, and this Implementation Manual. CARB reserves the right to conduct a site visit, evaluation, review, or audit HVIP for the life of the project grant.
- b. If the Grantee detects any potentially fraudulent activity by a vehicle dealer or purchaser, they shall notify CARB as soon as possible and work with CARB to determine an appropriate course of action.
- c. CARB staff or its designees have primary responsibility for conducting project reviews and/or fiscal audits of HVIP administration and implementation.
- d. Voucher recipients and the Grantee and its subcontractors shall allow CARB, the California Department of Finance, the California Bureau of State Audits, or any authorized designee access, during normal business hours, to conduct HVIP reviews and fiscal audits or other evaluations. Granting of access includes, but is not limited to, reviewing project records, site visits, and other evaluations as needed. Project evaluations or site visits may occur unannounced as CARB staff or its designee deems necessary.
- e. The Grantee shall, in coordination with CARB, maintain an online Voucher Processing Center (VPC) for dealers to quickly, effectively, and transparently request and redeem vouchers. The VPC shall include all the information necessary for the dealer to submit the voucher request. Only completed and accurate voucher request forms will be accepted. The Grantee will review the voucher request form for eligibility and provide vouchers on a first-come, first served basis until HVIP funds are depleted or until CARB pauses requests.

F. PROJECT NON-PERFORMANCE

CARB or its designee has the authority to recoup HVIP funds which were received based upon misinformation or fraud, or for which the Grantee or its subcontractors, a dealer, manufacturer, or vehicle or engine purchaser is in significant or continual non-compliance with this Implementation Manual or State law. CARB also retains the authority to prohibit any entity from participating in HVIP due to non-compliance with project requirements.

G. DEFINITIONS

“Account Sharing” is a feature within the VPC which allows multiple HVIP approved dealers within the same organization to view/edit one another’s vouchers.

“Bill of Lading” for the purposes of this program means a written receipt that confirms transportation of goods by a carrier (i.e., a binding contract that evidences an agreement of shipment between carrier and shipper; a receipt that acts as evidence of delivery of the shipment).

“CARB-Certified” for the purposes of HVIP means a vehicle that has been certified and issued an Executive Order by CARB.

“CARB Project Liaison” for the purposes of this program is CARB staff person named in this Implementation Manual that serves as the point of contact for coordination with HVIP Grantee.

“Commercial vehicle” for the purposes of this program means any vehicle used by a business, public or governmental agency, or non-profit to carry people, property, or hazardous materials.

“Common ownership or control” for the purposes of this program means being owned by the same person, corporation, partnership, limited liability company, or association. In addition, vehicles managed day to day by the same directors, officers, or managers, or by corporations controlled by the same majority stockholders are considered to be under common control even if their title is held by different business entities. See Appendix D of this Implementation Manual for more information.

“Complete Vehicle” for the purposes of HVIP and as defined by the Federal Transit Administration¹⁰, “a vehicle that requires no further manufacturing operations to perform its intended function. This includes vehicles that are altered only by (1) the addition, substitution, or removal of readily attachable components (such as mirrors, or tire and rim assemblies) or (2) minor finishing operations (such as painting) in such a manner that the vehicle's stated weight ratings are still valid.”

“Dealer (HVIP approved dealer)” for the purposes of HVIP means the vendor of the complete vehicle or vendor that sells and installs engines in existing vehicles and includes dealers or manufacturers that sell new medium- or heavy-duty vehicles directly to a vehicle purchaser.

¹⁰ <https://www.transit.dot.gov/faq/region-9/there-fta-dictionary>

“Disadvantaged Communities” for the purposes of this program are identified by the California Environmental Protection Agency (CalEPA).¹¹ To determine whether a project qualifies as located in a disadvantaged community, the Grantee must use the criteria in Assembly Bill 1550.¹²

“Domicile” for the purposes of this program is defined as the vehicle’s “home base” / deployed location; where the vehicle stays overnight, returns after its route, or is parked when it is not working.

“Earned interest” for the purposes of this program means any interest generated from State AQIP funds provided to the Grantee and held in an interest-bearing account.

“Expend” for the purpose of this program means the payment of funds on an invoice for an eligible vehicle.

“Exportable power” for the purposes of the program means AC electrical power generated by a commercial plug-in vehicle, typically to power electric tools, lighting, or other accessories at a job site.

“Fleet” Fleet means vehicles traveling in California owned by a person, business, non-profit or government agency and consists of one or more vehicles. Vehicles under common ownership or control that share a common TIN or CA # are considered part of a single fleet even if they are part of different subsidiaries, divisions, or other organizational structures of a company or government agency. A fleet is not a manufacturer, dealership, or leasing company that enters into any agreement with another party to operate the vehicles.

“g/bhp-hr” for the purposes of this program means grams/brake horsepower-hour.

“Grantee” for the purposes of this program means the entity selected by CARB via competitive solicitation to administer HVIP. The responsibilities of the Grantee are described in this Implementation Manual and in the grant agreement between CARB and the Grantee. The Grantee is responsible for ensuring it and its HVIP subcontractors meet all project requirements.

“Gross vehicle weight rating (GVWR)” for the purposes of this program means the vehicle weight described on the VIN tag or original manufacturer Line Setting Ticket provided to the vehicle dealer.

“Hybrid vehicle” for the purposes of this program means any vehicle that can draw propulsion energy from both of the following on-vehicle sources of stored energy:
1) consumable fuel, and 2) a rechargeable energy storage system.

¹¹ The identified disadvantaged community census tracts are available at:
<http://www.calepa.ca.gov/EnvJustice/GHGInvest/>.

¹² Assembly Bill 1550 Implementation, contains the criteria for determining whether a project is located within a disadvantaged community. This Guidance is available at:
<https://www.arb.ca.gov/cc/capandtrade/auctionproceeds/communityinvestments.htm>

“Hybrid vehicle conversions” for the purpose of this program means installing a hybrid driveline and other advanced technology to a newly manufactured vehicle or chassis.

“Hydrogen Fuel Cell Vehicle” for the purposes of this program means a ZEV that is fueled primarily by hydrogen and does not have plug-in capacity.

“Eligible Engines” for the purposes of this program means any engine certified to the optional Low NOx standard of 0.01 g/bhp-hr as of the publication of this document.

“Incomplete Vehicle” for the purposes of HVIP and as defined by the Federal Transit Administration¹³, “an assemblage of components consisting of, as a minimum, frame and chassis structure, power train, steering system, suspension system, and braking system - to the extent that those systems are to be part of a completed vehicle.”

“Incremental cost” for the purposes of this program for new vehicle means the difference in cost between HVIP eligible vehicle and a comparable new conventionally fueled vehicle that would be purchased to perform the same function. For engine vouchers, the incremental cost means the difference in cost between a baseline vehicle/engine and vehicle/engine certified to the standard utilizing the same fuel type.

This cost is determined on a case-by-case basis based upon a manufacturer’s HVIP eligibility application submittal, HVIP voucher redemption data, discussions with fleets and other stakeholders, and other relevant data and information.

“In-kind services” for the purposes of this program means payments or contributions made in the form of goods and services, rather than direct monetary contributions.

“Lessor Entity,” an entity, often a financial institution, that holds the lease on an HVIP-funded vehicle

“Line setting ticket” for the purposes of this program means the factory build or construction sheet created when the vehicle order is sent to the vehicle manufacturer. The Line Setting Ticket typically includes the new vehicle’s VIN, all the codes for standard equipment and options the salesman used to create this vehicle for his purchaser. After the factory assembles the vehicle and the vehicle is shipped and sold, the Line Setting Ticket identifies such things as the gross vehicle weight rating, engine type, transmission type, drive line, paint codes, gear ratio, and standard and optional equipment, specific to that vehicle.

“Match funding” for the purposes of this program, means those funds contributed by the Grantee directly to HVIP for the sole purposes of funding additional vehicles or engines or increasing the vehicle or engine voucher amount.

¹³ <https://www.transit.dot.gov/faq/region-9/there-fta-dictionary>

“Non-profit agency” for the purposes of this program means an agency or corporation that does not distribute corporate income to shareholders and is exempt from federal income taxes under Section 501 of the Internal Revenue Code (26 U.S.C.A. § 501).

“Plug-in hybrid electric vehicle” (also known as a Grid-connected HEV or GHEV) means a hybrid electric vehicle that has:

- zero emission vehicle range capability
- on-board electrical energy storage device with useful capacity equivalent to greater than or equal to ten miles of Urban Dynamometer Driving Schedule range on electricity alone is equipped with an on-board charger, and is rechargeable from an external connection to an off-board electrical source

“Public fleet” for the purposes of this program includes all federal, state, city and government fleets plus public universities, public airports, public school districts, California public ports and special districts such as water, utility, and irrigation districts.

“Public transit bus” for the purposes of this program means an on-road vehicle greater than 8,500 pounds GVWR normally powered by a heavy-duty engine fueled by diesel or alternative fuel, owned or operated by a city or county government; a transportation district / transit district; or a public agency, and which is not an urban bus. Public transit includes paratransit services operated by a public transit agency, but not shuttle buses with restricted services including but not limited to airport shuttles, university shuttles, and prisoner transport shuttles.

“Purchaser” A purchaser for the purposes of HVIP is the fleet or individual owner / operator who will operate the vehicle for a minimum of three years after voucher redemption, whether through lease or direct purchase. A purchaser is not a manufacturer, dealership, or leasing company that enters into any agreement with another party to operate the vehicle.

“Manufacturer recommended minimum state-of-charge” for the purposes of this program means the minimum allowable battery capacity recommended by the battery manufacturer to ensure the most efficient and durable battery operation, as a percent of the maximum battery capacity.

“Renewable fuel” for the purposes of this program is comprised of definitions of alternative fuels from the Low Carbon Fuel Standard (LCFS), California Code of Regulations Section 95481. Section 95481(79) defines transportation fuel as any fuel used or intended for use as a motor vehicle fuel or for transportation purposes in a non-vehicular source. For HVIP, transportation fuel, as defined above, must satisfy Section 95481(11) that defines Bio-CNG as biogas-derived biomethane which has been compressed to CNG. Additionally, fuel may be produced out-of-state as defined in Section 95481(66) that defines Producer as the entity that made or prepared the fuel. This definition of Producer includes “out-of-state” producers where the production facility is out of the State of California and the entity has

opted into the LCFS pursuant to section 95483.1. As more engines that use renewable fuels other than renewable become available, CARB will expand this definition to include those renewable fuels.

“Repower” for the purposes of this program means the replacement of an existing engine with a new engine certified to any tier of the Optional emission standard approved by CARB instead of rebuilding the existing engine to its original specifications.

“Telematics” for the purposes of this program means a data acquisition system capable of collecting vehicle GPS data, vehicle mileage and hours of operation.

“Truck Equipment Manufacturer (TEM)” for the purposes of this program means a company that installs equipment on a truck or bus chassis. The TEM bears full responsibility for any vehicle defects under federal law and is responsible for certifying that the vehicle meets all applicable federal safety standards.

“UDDS” means urban dynamometer driving schedule as set forth Appendix I of title 40, Code of Federal Regulations, Part 86.

“Zero-emission power take-off (ePTO)” for the purposes of this program means a method for taking power from an on-vehicle source (typically a battery) that produces no emissions of pollutants (including carbon dioxide, carbon monoxide, hydrocarbons, oxides of nitrogen, and particulates) and which can be used to power truck mounted hydraulic, pneumatic or electric work equipment utilized for performing stationary work.

“Zero-emission vehicle (ZEV)” means a vehicle that itself produces no emissions of pollutants (including carbon dioxide, carbon monoxide, hydrocarbons, oxides of nitrogen, and particulates) when stationary or operating.

“Zero-Emission Vehicle Conversions” for the purpose of this program means removing any type of existing propulsion system and replacing it with a zero-emission propulsion system, such as battery or hydrogen fuel cell powered electric drive train.

H. LIST OF ACRONYMS

AC	Alternating Current
AQIP	Air Quality Improvement Program
CARB	California Air Resources Board

CA #	California Carrier Identification Number
CCR	California Code of Regulations
CFR	Code of Federal regulations
CMAQ	Congestion Mitigation and Air Quality
DAC	Disadvantaged Community
DMV	Department of Motor Vehicles
DOC	Diesel Oxidation Catalyst
DPF	Diesel Particulate Filter
ePTO	Electric Power Take-Off
FTA	Federal Transportation Authority
FY	Fiscal Year
GGRF	Greenhouse Gas Reduction Fund
GVWR	Gross Vehicle Weight Rating
HSC	Health and Safety Code
HVIP	Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project
JPA	Joint Powers Authority
LESBP	Lower-Emission School Bus Program
MY	Model Year
PEMS	Portable emissions measurement system
NOx	Oxides of Nitrogen
OBD	On-Board Diagnostics
OEM	Original Equipment Manufacturer
SCR	Selective Catalytic Reduction
TEM	Truck Equipment Manufacturer
USC	United States Code

VIN	Vehicle Identification Number
VIP	Voucher Incentive Program
VPC	Voucher Processing Center
ZEV	Zero-Emission Vehicle

APPENDIX A: HVIP Vehicle Eligibility List

The current list of HVIP eligible vehicles, as well as a historical record of some previously-eligible vehicles, can be found on the California HVIP website at:

<https://californiahvip.org/vehiclecatalog/>

APPENDIX B: Vehicle Eligibility Applications

Vehicle Eligibility Application Submittal Instructions for Original Vehicle Manufacturers

Please submit the vehicle eligibility application to Patrick Chen by e-mail at Patrick.Chen@arb.ca.gov and provide a signed electronic copy of the application. There is no deadline for application submittal. Vehicle eligibility applications will be evaluated in the order they are received.

Applications for HVIP eligibility must match the corresponding Executive Order including vehicle model year, vehicle model name, chassis, chassis model year, and configuration. Voucher requests that are not identical to the corresponding Executive Order may be subject to cancellation.

Questions regarding submittal of the vehicle eligibility application or application requirements should be directed to Patrick Chen at the above e-mail address.

The timeline from when a complete and accurate eligibility application is received by CARB to when the vehicle is available in the HVIP Eligible Vehicles Catalog and Voucher Processing Center (VPC) is an average of 75 days. This includes 60 days for CARB's review and 15 days for HVIP staff to update the Catalog and VPC.

**APPENDIX B1: NEW ZERO-EMISSION VEHICLE/ZERO-EMISSION COMMERCIAL VEHICLE
CONVERSION ELIGIBILITY APPLICATION**

This is an application for new zero-emission and zero-emission vehicle conversion commercial vehicles to be included on the list of vehicles eligible for HVIP. This application must be completed along with the Zero-Emission Vehicle/Zero-Emission Commercial Vehicle Conversion Vehicle Component Cost supplemental application form. Vehicle must receive approval by CARB prior to the vehicle being eligible for a voucher.

CARB reserves the right to request additional information or clarification of information provided in this application. This application applies to and must be completed by the original vehicle manufacturer or its legal representative.

Please check the box that applies:

- New zero-emission commercial vehicle
- Zero-emission vehicle conversion commercial vehicle

Part I: Vehicle Manufacturer Information

1. Manufacturer Name:		
2. Staff Contact Name and Title:		
3. Business Mailing Address and Contact Information		
Street:		
City:	State:	Zip Code:
Phone: ()		E-mail:

Please identify the zero-emission vehicle and its baseline (gasoline or diesel-powered) equivalent in Tables 1 and 2, respectively. These vehicles must be of the same make, model, drive configuration (4 x 2 or 4 x 4), frontal area, and gross vehicle weight.

Table 1: Zero-Emission Vehicle Information

Vehicle MY	Vehicle Make and Model (vehicle type, vehicle model, drive configuration (4 x 2 or 4 x 4), and frontal area)	Gross Vehicle Weight Range

Table 2: Baseline Vehicle Information

Vehicle MY	Vehicle Make and Model (vehicle type, vehicle model, drive configuration (4 x 2 or 4 x 4), and frontal area)	Gross Vehicle Weight Range

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What is the typical California pre-tax cost of the zero-emission vehicle (identified in Table 1) with normal dealer profit? \$_____

What is the typical California pre-tax cost of this equivalent baseline vehicle (identified in Table 2 with normal dealer profit) \$_____

Part II: Verification of Vehicle Eligibility

A. For vehicle models not currently on the list of eligible vehicles:

Please provide the following information as attachments to this form for each vehicle model listed in Table 1. CARB reserves the right to request additional information to complete the vehicle eligibility evaluation.

- CARB Executive Order (EO) for new zero-emission commercial vehicles.
- For conversions of any type of vehicle to zero-emission, the aftermarket conversion kits must receive an exemption EO from CARB
- Warranty provisions
- After sales service provisions
- MSRP price sheets
- Proof of compliance with the all-electric range requirements identified in Section C(3)(d) of HVIP Implementation Manual
- Briefly describe information provided to vehicle dealers/purchasers regarding proper disposal of both the propulsion and auxiliary vehicle battery and how this information is conveyed

B. For vehicle models currently on the list of eligible vehicles (addition of new model years):

Please check box below if the following statement is true.

I certify that the vehicle(s) listed in Table 1 have not been modified from the vehicle(s) that were previously approved by CARB for inclusion on the List of Eligible Vehicles including warranty and after sales service provisions.

Please provide the following information for each vehicle model listed in Table 1.

- MSRP price sheets
- CARB EO for new zero-emission commercial vehicles.
- For conversions of any type of vehicle to zero-emission, the aftermarket conversion kits must receive an exemption EO from CARB

Part III: Applicant Signature

I certify under penalty of perjury that all information provided in this application and any attachments are true and correct. Additionally, the vehicle manufacturer agrees to the telematics requirement as stated in Section B(1)(I) of the HVIP Implementation Manual.

Printed Name of Responsible Party:	Title:
Signature of Responsible Party:	Date:
City:	State:

APPENDIX B2 – ZERO-EMISSION/ZERO-EMISSIONCONVERSION COMMERCIAL VEHICLE COMPONENT COST FORM

This is a supplemental application form for new zero-emission and zero-emission vehicle conversion commercial vehicles to be included on the list of vehicles eligible for the HVIP. This application must be completed and submitted to CARB along with the New Zero-Emission Vehicle/Zero-Emission Vehicle Conversion Eligibility Application for vehicle eligibility approval.

Approved in the Fiscal Year 2020-21 Funding Plan for Clean Transportation Incentives, the application form is a part of the required HVIP vehicle eligibility documentation for each model year to help maintain current data and identify cost trends. Staff will monitor and use the results to better determine voucher incentive amounts or modify voucher amounts for specific applications, vehicle classes, or technologies.

CARB reserves the right to request additional information or clarification of information provided in this application. This application applies to and must be completed by the original vehicle manufacturer or its legal representative.

Please check the box that applies:

- New zero-emission commercial vehicle
- Zero-emission vehicle conversion commercial vehicle

Part I: Vehicle Manufacturer Information

1. Company Name/Organization Name/Individual Name:		
2. Contact Name and Title:		
3. Business Mailing Address:		
City:	State:	Zip Code:
Phone:	E-mail:	

Part II: Zero-Emission Vehicle/Zero-Emission Vehicle Conversion Component Costs

Zero-Emission Vehicle Information

Vehicle MY	
Vehicle Make and Model	
California Pre-Tax Cost of Vehicle	
Gross Vehicle Weight Rating (GVWR)	
Length of Vehicle (for buses only)	
Zero-Emission Driving Range	

Component Information and Costs

Battery Manufacturer	
Battery Chemistry	
Battery Capacity (kWh)	
Battery System Cost	
Battery Cost (\$/kWh)	
Fuel Cell Cost (FCEV only)	
Hydrogen Storage Tank Size (FCEV only)	
Hydrogen Storage Tank Cost (FCEV only)	
Electric Traction Motor Manufacturer	
Electric Traction Motor Power (kW)	
Electric Traction Motor Cost (Total)	
Electric Traction Motor Cost (\$/kW)	
Onboard Charger Cost	
Power Electronic Controller Cost	
Vehicle Chassis/Glider Kit Cost	

Please check the box that applies:

- The information highlighted above and indicated in any additional documentation is confidential and considered proprietary information/trade secrets. The Applicant understands that in the event there is a California Public Record Request for this document, that CARB will follow the process set forth in Title 17, California Code of Regulations, sections 91000 - 91022
- All of the information and documentation provided as part of this supplemental application form are not confidential, proprietary information or trade secrets

Part III: Applicant Signature

I certify under penalty of perjury that all information provided in this application and any attachments are true and correct.

Printed Name of Responsible Party:	Title:
Signature of Responsible Party:	Date:
City:	State:

APPENDIX B3: NEW PLUG-IN HYBRID VEHICLE/HYBRID VEHICLE CONVERSION ELIGIBILITY APPLICATION

This is an application for new plug-in hybrid vehicle manufacturers to have a plug-in hybrid vehicle with all-electric range make/model listed as eligible for the Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP). This application must be completed and submitted to CARB, and the vehicle must receive written approval from CARB prior to the vehicle being eligible for a voucher.

This application must be completed by the original vehicle manufacturer or its legal representative. An application must be submitted for each combination of vehicle engine and model years (i.e. a 2020 MY vehicle with a 2019 MY engine and one with a 2020 MY engine require separate applications). CARB reserves the right to request additional information or clarification of responses provided in this application. CARB may require additional information from the vehicle manufacturer or Final Stage Vehicle Manufacturer before listing a vehicle as eligible for funding.

Part I: Original Manufacturer Information

1. Company Name/Organization Name/Individual Name:		
2. Contact Name and Title:		
3. Business Mailing Address and Contact Information		
Street:		
City:	State:	Zip Code:
Phone: ()	E-mail:	

Part II: Vehicle Description

Please identify the plug-in hybrid vehicle and its baseline (non-hybrid) equivalent in Tables 1 and 2, respectively. These vehicles must be of the same make, model, drive configuration

(4 x 2 or 4 x 4), frontal area, and gross vehicle weight and use the same CARB-certified engine.

Table 1: Hybrid Vehicle Information

Vehicle MY	Engine MY	Hybrid Vehicle Description (vehicle type, vehicle model, drive configuration (4 x 2 or 4 x 4), frontal area, engine model, and hybrid system)	Gross Vehicle Weight Range

Table 2: Baseline Vehicle Information

Vehicle MY	Engine MY	Equivalent Non-Hybrid Vehicle Description (vehicle type, vehicle model, drive configuration (4 x 2 or 4 x 4), frontal area, and engine model)	Gross Vehicle Weight Range

What is the typical California pre-tax cost of the hybrid vehicle (identified in Table 1) with normal dealer profit?

\$ _____

What is the typical California pre-tax cost of this equivalent baseline vehicle (identified in Table 2) with normal dealer profit?

\$ _____

Part III: Application Attachments to be Provided by Original Vehicle Manufacturer

A. For vehicle models not currently on the list of eligible vehicles

- CARB Executive Order (EO) for new plug-in hybrid commercial vehicles.
- Provide in-use or chassis dynamometer criteria testing data to ensure the hybrid vehicle does not result in increased NOx emissions compared to an equivalent baseline vehicle. Only vehicles for which the hybrid platform, engine, and after-treatment system continue to function as required will be approved. NOx emissions testing data must demonstrate no increase in NOx emissions compared to an equivalent baseline vehicle.
- Provide proof of compliance with the all-electric range (AER) requirements identified in the HVIP Implementation Manual.
- Minimum warranty provisions.
- After sales service provisions.
- MSRP price sheets.
- Briefly describe what information is provided to plug-in hybrid vehicle dealers/purchasers regarding proper disposal of the plug-in hybrid vehicle battery and how this information is conveyed.

B. For vehicle models currently on the list of eligible vehicles (addition of new model years):

Please check box below if the following statement is true.

- I certify that the vehicle(s) listed in Table 1 have not been modified from the vehicle(s) that were previously approved by CARB for inclusion on the List of Eligible Vehicles including warranty and after sales service provisions.

Please provide the following information for each vehicle model listed in Table 1.

- CARB Executive Order (EO) for new plug-in hybrid commercial vehicles.
- Minimum warranty provisions.
- After sales service provisions.
- MSRP price sheets.
- Briefly describe what information is provided to plug-in hybrid vehicle dealers/purchasers regarding proper disposal of the plug-in hybrid vehicle battery and how this information is conveyed.

Part V: Applicant Signature

I certify under penalty of perjury that all information provided in this application and any attachments are true and correct.

Printed Name of Responsible Party:	Title:
Signature of Responsible Party:	Date:
City:	State:

APPENDIX B4: WORK VEHICLE WITH ePTO ELIGIBILITY APPLICATION

Part I: Original Manufacturer Information

1. Company Name/Organization Name/Individual Name:		
2. Contact Name and Title:		
3. Business Mailing Address:		
City:	State:	Zip Code:
Phone:	E-mail:	

Part II: Vehicle Description

Please identify the vehicle and its applicable ePTO system proposed for HVIP eligibility in Tables 1 and 2, respectively.

Table 1: Aerial Boom Vehicle Information

Vehicle MY	
Vehicle Make and Model	
Engine Make and Model	
Boom Maximum Working Height (ft)	
Gross Vehicle Weight Range (lbs)* * including ePTO system.	

Table 2: ePTO Information

Battery Manufacturer	
Battery Chemistry	
Battery Capacity (kWh)	
Battery Manufacturer Recommended Minimum State-of-ePTO Make and Model	
Regenerative Braking	<input type="checkbox"/> Yes <input type="checkbox"/> No
Alternator Charging	<input type="checkbox"/> Yes <input type="checkbox"/> No
Battery State-Of-Charge (SOC) at Engine Auto-Start	

What is the typical California pre-tax cost with normal dealer profit of the truck identified in Table 1 with traditionally powered PTO (i.e. vehicle engine idles to power bucket)?

\$ _____

What is the typical California pre-tax cost with normal dealer profit of the bucket truck identified in Table 1 when equipped with the ePTO system identified in Table 2?

\$ _____

Make and model of vehicle telematics system: _____

Part III: Self-Certification of Vehicle, Engine and ePTO Parameters

Please check the box next to each statement if the statement is correct. **Do not check the box if the statement is not correct.**

- The vehicle complies with applicable air quality provisions of California and federal law.
- The vehicle complies with motor vehicle safety provisions of 49 USC Sections 30101 through 30169.
- The vehicle meets the original engine manufacturer's build requirements.
- No modifications have been made to the engine hardware or after-treatment device(s).

- No modifications have been made to the engine's original software calibrations.
- The vehicle meets HVIP minimum three year warranty requirements, as described in Section C(1)(a) of the HVIP Implementation Manual
- The vehicle manufacturer agrees to the telematics requirement as stated in Sections C(1)(m) and C(6)(h) of the HVIP Implementation Manual.
- The ePTO battery is capable of recharging from the manufacturer specified battery cut-off voltage to full charge within twelve hours.
- The battery manufacturer recommended minimum state-of-charge for the ePTO make/model identified in this application equals that in the aerial boom vehicle provided for consumer purchase and intended for the vehicle in-use for a minimum of three years from date of voucher redemption.
- There is at least one service provider for the vehicle in California. Please provide name and city of primary service provider: _____
- The vehicle and ePTO system meet all the requirements of the HVIP, including those identified in this application and the HVIP Implementation Manual.

Part IV: Application Attachments to be Provided by Original Vehicle Manufacturer

- Warranty provisions.
- After sales service provisions.
- MSRP price sheets.
- Manufacturer's vehicle marketing flyer, including vehicle and exportable power specifications and justification for export power usage in proposed vehicle vocation (if requesting HVIP approval of exportable power option).
- If any of the statements in Part III are not true and correct (i.e. if any of the boxes above are not checked), please attach a narrative explaining why.
- Briefly describe what information is provided to vehicle dealers/purchasers regarding proper disposal of the ePTO battery and how this information is conveyed.

Part V: Demonstration of ePTO System

The intent of the ePTO system demonstration is to verify that the ePTO will function entirely on battery power over the course of a typical work day.

The applicant shall work with the CARB Project Liaison or his or her designee to determine an applicable method to demonstrate the ePTO system to ensure that the vehicle completes a typical work day duty cycle without the need for the engine to recharge the battery (i.e. the battery manufacturer recommended minimum state-of-charge is not reached). The use of video conferencing and/or telematics data collection will be required unless specified by the CARB Project Liaison. The CARB Project Liaison may also require in-person demonstration of the ePTO system. The CARB Project Liaison and applicant will agree on the testing method on a case-by-case basis. For more information on ePTO demonstration, see Section C(5) of the Implementation Manual.

The CARB Project Liaison is: Patrick Chen

patrick.chen@arb.ca.gov

Part VI: Applicant Signature

I certify under penalty of perjury that all information provided in this application and any attachments are true and correct.

Printed Name of Responsible Party:	Title:
Signature of Responsible Party:	Date:
City:	State:

APPENDIX B5: ELIGIBILITY APPLICATION FOR NEW VEHICLE EQUIPPED WITH ENGINE CERTIFIED TO THE OPTIONAL LOW NOX STANDARD OF 0.01 G/BHP-HR

This is an eligibility application for new vehicles equipped with engines certified to the optional Low NOx standard of 0.01 g/bhp-hr. This application must be completed, submitted to CARB, and vehicle must receive approval prior to the vehicle being eligible for a voucher.

Do not use this application for an engine used for a repower.

CARB reserves the right to request additional information or clarification of information provided in this application. This application applies to and must be completed by the original vehicle/ engine manufacturer or its legal representative.

Part I: Vehicle Manufacturer Information

1. Manufacturer Name:		
2. Staff Contact Name and Title:		
3. Business Mailing Address and Contact Information		
Street:		
City:	State:	Zip Code:
Phone: ()	E-mail:	

Please identify the vehicle equipped with an engine certified to the optional Low NOx standard of 0.01 g/bhp-hr and its baseline equivalent in Tables 1 and 2, respectively. These vehicles must be of the same make, model, drive configuration (4 x 2 or 4 x 4), frontal area, and gross vehicle weight.

Table 1: New Vehicle Information

Vehicle Model Year	
Vehicle Make/Model	
Vehicle Gross Vehicle Weight Range	
Engine Model Year	
Engine Make/Model	
Executive Order Number	

Table 2: Baseline Vehicle Information

Vehicle Model Year	
Vehicle Make/Model	
Vehicle Gross Vehicle Weight Range	
Engine Model Year	
Engine Make/Model	

Executive Order Number	
------------------------	--

What is the typical California pre-tax cost of the vehicle equipped with engine certified to the optional Low NOx standard of 0.01 g/bhp-hr(identified in Table 1) with normal dealer profit? \$_____

What is the typical California pre-tax cost of this equivalent baseline vehicle (conventional engine identified in Table 2) with normal dealer profit \$_____

Part II: Verification of Vehicle Eligibility

A. For vehicle models not currently on the list of eligible vehicles:

Please provide the following information as attachments to this form for each vehicle model listed in Table 1. CARB reserves the right to request additional information to complete the vehicle eligibility evaluation.

- CARB engine Executive Order
- Warranty provisions for engine and vehicle
- After sales service provisions
- MSRP price sheets

B. For vehicle models currently on the list of eligible vehicles (addition of new model years):

Please check box below if the following statement is true.

- I certify that the vehicle(s) listed in Table 1 have not been modified from the vehicle(s) that were previously approved by ARB for inclusion on the List of Eligible Vehicles including warranty and after sales service provisions.

Part III: Applicant Signature

I certify under penalty of perjury that all information provided in this application and any attachments are true and correct.

Printed Name of Responsible Party:	Title:
Signature of Responsible Party:	Date:
City:	State:

APPENDIX B6: ELIGIBILITY APPLICATION FOR ENGINE CERTIFIED TO THE OPTIONAL LOW NOX STANDARD OF 0.01 G/BHP-HR USED FOR REPOWER

This is an eligibility application for engines certified to the optional Low NOx standard of 0.01 g/bhp-hr used for repowers. This application must be completed, submitted to CARB, and the engine must receive approval prior to the engine being eligible for a voucher.

CARB reserves the right to request additional information or clarification of information provided in this application. This application applies to and must be completed by the original engine manufacturer or its legal representative.

Part I: Vehicle Manufacturer Information

1. Manufacturer Name:		
2. Staff Contact Name and Title:		
3. Business Mailing Address and Contact Information		
Street:		
City:	State:	Zip Code:
Phone: ()		E-mail:

Please identify the engine(s) and its baseline (conventional engine) equivalent in Tables 1 and 2, respectively. The engine(s) must be of the same make, horsepower and displacement.

Table 1: Engine Information

Engine Model Year	
Engine Make/Model	
Engine Horsepower	
Engine Displacement	
Executive Order Number	

Table 2: Baseline Engine Information (

Engine Model Year	
Engine Make/Model	
Engine Horsepower	
Engine Displacement	
Executive Order Number	

What is the typical California pre-tax cost of the n engine (identified in Table 1) with normal dealer profit?
\$_____

What is the typical California pre-tax cost of this equivalent baseline engine (conventional engine identified in Table 2) with normal dealer profit \$_____

Part II: Verification of Engine Eligibility

A. For engine models not currently on the list of eligible engines:

Please provide the following information as attachments to this form for each engine model listed in Table 1. CARB reserves the right to request additional information to complete the vehicle eligibility evaluation.

- CARB Natural Gas Internal Combustion engine Executive Order
- Warranty provisions for engine
- After sales service provisions
- MSRP price sheets

B. For engine models currently on the list of eligible engines (addition of new model years):

Please check box below if the following statement is true.

- I certify that the engine(s) listed in Table 1 have not been modified from the engine(s) that were previously approved by ARB for inclusion on the List of Eligible Engines including warranty and after sales service provisions.

Part III: Applicant Signature

I certify under penalty of perjury that all information provided in this application and any attachments are true and correct.

Printed Name of Responsible Party:	Title:
Signature of Responsible Party:	Date:
City:	State:

APPENDIX C: Vehicles Under Common Ownership and Control

If vehicles are under common ownership, for the purposes of the Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP) this means that they are owned by the same person, corporation, partnership, limited liability company, or association, including sharing a Tax Identification Number (TIN) or California Carrier Identification Number (CA#) In addition, vehicles managed day to day by the same directors, officers, or managers, or by corporations controlled by the same majority stockholders are considered to be under common control even if their title is held by different business entities.

The examples provided below are intended to further specify, for the purposes of HVIP, the definition of common ownership, corporation, or other entity wishing to purchase or lease an HVIP eligible vehicle or engine.

Example 1 – Parent/Child Company

The George Corporation forms a new, wholly owned corporation, Sam’s Transportation Services, and secures a different federal tax identification number for it. While the George Corporation and Sam’s Transportation Services can report and comply separately with the regulation, because they are under common ownership, the total number of vehicles of both must be summed in order to determine the fleet size.

Example 2 – Common Ownership

The ABC Company and the 123 Company are wholly-owned subsidiaries of Alphabet Group Incorporated. They were acquired by Alphabet Group Incorporated in 1950 and 1970, respectively. Alphabet Group Incorporated is located in Nevada, however ABC Company and 123 Company are both located in California and each have their own Federal Tax Identification numbers. In addition, they each have unique motor carrier numbers. Both ABC and 123 are decentralized, with most of the decision making pushed down to the operating company level. However, the corporate office centralizes things like insurance, bonding, cash, and financial statement consolidation.

Because ABC and 123 are under common ownership, the total number of vehicles of this fleet must be determined by adding up all the vehicles for ABC and 123. However, ABC and 123 can report and comply separately with the regulation.

Example 3 – Common Control

Bill Brown owns Brown’s Transportation and controls the day to day operation of his fleet. Bonnie Brown is the owner of Bonnie’s Transportation, but her vehicles are controlled on a day to day basis by Bill Brown. Mr. Brown makes decisions regarding vehicle use, maintenance, purchases and sales, etc. Because Brown’s Transportation and Bonnie’s Transportation fleets are under the common control of Mr. Brown, all of the vehicles in both fleets must be summed to determine their fleet size. If, for example, the summed vehicles exceed three, neither could utilize the small fleet provision.

Example 4 – 50/50 Ownership

John Smith owns Company A, and Jane Doe owns Company B. John and Jane also each both own 50 percent of Company C. Because neither John nor Jane have a majority stake in Company C (neither have more than 50 percent), as long as Company C is not under common control with either Company A or B, neither John nor Jane must add Company C's vehicles to their own when determining fleet size. Each fleet - Company A, B, and C would report separately and determine its fleet size separately.

If, however, John controlled both the Company A and Company C fleet on a day-to-day basis (managing the vehicles use, maintenance, purchases and sales, etc.), then Company A and Company C's vehicles would need to be combined when determining fleet size.

CARB enforcement may use organizational documents of fleet owners (such as articles of incorporation) to validate fleet ownership.

Example 5 – Farming Business

Top Grade Dairy owns two dairies in Tulare with 100 milking cows at each location. John Smith, the owner, the president, and CEO of the company manages the day to day operations. Top Grade Dairy owns the land where the dairies are located and also owns 25 acres where sorghum is grown. Mr. Smith formed a limited liability company, where he is the only member, called Top Grade Silage, which is also managed by Mr. Smith, and only supplies silage to Top Grade Dairies. Each company has a different federal tax identification number.

Since Mr. Smith owns both companies, all the vehicles owned by both Top Grade Dairy and Top Grade Silage would be counted to determine fleet size.

For purposes of determining whether each company meets the definition of a farming business, each business entity must be examined separately. Top Grade Dairy clearly meets the definition of a farming business because it is involved in the operation of a farm as an owner. However, Top Grade Silage does not own the land and therefore does not meet the definition of a farming business. If Top Grade Silage had owned the land, or was a tenant, it would meet the definition of a farming business.

Appendix D: HVIP VOUCHER REQUEST FORM

**HVIP Voucher Request Form
Effective 04/29/2021**

Vehicle _____
 Voucher ID _____
 Date _____
 Number of Vouchers in Batch (Quantity in Request) _____
 Vehicle Type _____

Vehicle Information:

Vehicle Manufacturer:	Vehicle Model Year:
GVWR:	Preliminary Voucher Amount:

Purchaser Information

Is this Vehicle a Lease? Yes No (*Lessee must be listed as Purchaser*)

Note: After the voucher request is submitted, lessee (end-user fleet / operator) CANNOT change

Purchaser Contact Name:		
Purchaser Company / Entity:		
Parent Company, if any:		
Mailing address:		
City, State, Zip code:		
Phone:	Fax:	Email:
Is Mailing address the same as vehicle Domicile? (deployed "home base") Yes <input type="checkbox"/> No <input type="checkbox"/>		
If No please indicate the domicile (deployed "home base") address below:		
Address:		
City:	State:	Zip Code:
Is domicile address in a disadvantaged community? Yes <input type="checkbox"/> No <input type="checkbox"/> (Find out by entering address at https://www.arb.ca.gov/cc/capandtrade/auctionproceeds/communityinvestments.htm)		
TIN:	CA#: <input type="checkbox"/> Exempt	DOT#: <input type="checkbox"/> Exempt
CA# Reason for exemption (if applicable):		
DOT# Reason for exemption (if applicable):		
TRUCRS ID#: <input type="checkbox"/> Exempt TRUCRS: Purchaser claiming exemption must submit a letter of explanation to voucherprocessing@tetrattech.com within 30 calendar days of the date the voucher was requested.		
Name of Lessor Entity, if vehicle is a lease:		
Name of Contact at Lessor Entity:		

Phone:	Email:
Is the vehicle performing Drayage operations as defined in the Implementation Manual? Yes <input type="checkbox"/> No <input type="checkbox"/>	
If the vehicle is not performing Drayage operations, is it being used for other freight activities? Specifically, to transport products or raw materials in bulk, including intermodal transfer to train, ship, or aircraft? Yes <input type="checkbox"/> No <input type="checkbox"/>	
Is the Purchaser a Public Transit Agency or Public School District? Yes <input type="checkbox"/> No <input type="checkbox"/>	
Please categorize the fleet / organization <input type="checkbox"/> Public (government entity) <input type="checkbox"/> Private	
Fleet size (# of vehicles)	

Dealer Information

Dealer Name:	Company Name:	
Street address:		
City:	State:	Zip Code:
Email:	Phone:	

IMPORTANT NOTES: 1) In the instance of batch requests, the domicile address must be the same for all vehicles in the batch. Separate voucher requests are required for differing domiciles. 2) If this request includes multiple vouchers, please be aware that only the first voucher number may appear on the form in the Voucher Processing Center. 3) Requests for an operator who is different than the purchaser, i.e. a third-party contractor operating on behalf of a transit agency, may be approved at CARB's sole discretion, by contacting voucherprocessing@tetrattech.com

HVIP Voucher Request and Terms and Conditions Form
Purchaser / Lessee
Effective 04/29/2021

As a condition for participating in the State of California, Air Resources Board (CARB) Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP), the purchaser/lessee must comply with the requirements below:

1. I have reviewed and verified all information in the Purchaser Information section of this request form, including the Vehicle and Vehicle Vocation / Type selected for this voucher;
2. I have read, understand and agree to all provisions in HVIP Implementation Manual;
3. If this voucher includes the Drayage Early Adopter Incentive, I certify that my fleet activities meet the definition and requirements in this document.
4. I agree to register the vehicle in California with the Department of Motor Vehicles (DMV). Military and U.S. Postal Service vehicles are not subject to this requirement;
5. I agree to allow CARB, Grantee, or their designee to verify the vehicle registration with the DMV;
6. I agree to maintain vehicle insurance as required by law;
7. I agree to never modify the vehicle's emission control system, engine, or engine software calibrations;
8. I agree to ensure plug-in vehicles purchased with an HVIP voucher, including plug-in hybrid vehicles, plug-in electric vehicles, and work vehicles with zero- emission power take-off, will be plugged in regularly as recommended by the vehicle manufacturer to ensure battery durability, efficiency, and reliability;
9. I agree to provide access to necessary charging equipment at the domicile location, or a copy of their company's charging policy showing plug-in access;
10. I understand that the fleet must be in compliance and remain in compliance with all applicable federal, state, and local air quality rules and regulations, including but not limited to the CARB Truck and Bus Regulation; furthermore I understand that CARB reserves the right to check compliance at any time;
11. If I have claimed exemption from TRUCR regulation reporting, I acknowledge that I must submit a letter of explanation to voucherprocessing@tetrattech.com within 30 calendar days of the date the voucher was requested;
12. I agree to own/lease and operate this vehicle 100 percent in California for a minimum of three years from the date of purchase/lease unless: 1) the vehicle is an emergency response vehicle which may be deployed out of state, 2) the vehicle address identified in this form is in a county which borders Arizona, Nevada, Oregon or Mexico, or 3) the vehicle is a long-haul Class 8 truck conducting business outside of California. In the first two cases only, the vehicle may operate outside of California for up to 25 percent of its mileage. For the third case, the vehicle may operate outside of California for up to 50 percent. Military vehicles are not subject to this requirement;
13. I agree to retain ownership/lease of the vehicle for at least three years from the date of purchase/lease, unless given explicit prior written approval from CARB to sell or transfer the vehicle;
14. I understand that I will receive automated emails from the HVIP Voucher Processing Center when the Dealer requests a voucher on my behalf; when the voucher has

been redeemed by the Dealer; and in any instance wherein the voucher is cancelled for any reason. I will notify voucherprocessing@tetrattech.com if a different person should receive these messages instead;

15. I agree to keep written records of the vehicle purchase/lease for three years after the purchase/lease date and provide CARB or its designee with these records within ten days of their request. These records include but are not limited to the vehicle invoice, proof of purchase, DMV records, vehicle payment information and related bank records, and purchaser/lessee fleet information;
16. I agree that the purchased/leased vehicle and emission reductions it generates shall not be used as emission reductions to comply with an enforcement obligation of any person or entity other than CARB;
17. I agree to complete the annual usage survey and questionnaire for three years, as requested by CARB. Military vehicles are not subject to this requirement;
18. I agree that all information associated with this voucher request and voucher redemption, including business name and address, contact information, and sales transaction are public information and subject to release;
- 18a. I understand that this information will also be shared with geographically relevant utility provider(s) for the purposes of infrastructure planning and incentive coordination;
19. I agree to disclose all sources of public funding that apply to the purchase of any vehicles for which I request HVIP vouchers;
20. I agree to the Manufacturers Terms and Conditions for usage of the vehicle's telematics device. Additionally, I agree to allow the Manufacturer to have access to the vehicle location and on/off data so the Manufacturer can report to CARB Grantee, or their designee the vehicle operation telematics for each HVIP-funded vehicle within disadvantaged communities. Vehicles equipped with Natural Gas Internal Combustion engines, and military vehicles are exempt from this requirement;
21. I agree to be available for a follow-up inspection by CARB, Grantee or their designee, if requested;
22. The information provided in this application is true and all supporting documentation is true and correct and meet the minimum requirements of HVIP;
23. I have the legal authority to apply for incentive funding for the purchasing entity described in this agreement;
24. I agree that failure to comply with the terms of this agreement may result in repayment to CARB of voucher funds received;
25. I understand that this HVIP voucher request is only valid for this specific vehicle purchased/leased through this specific dealer/manufacturer, and that any voucher provided based on this voucher request will be null and void if the purchaser/lessee, dealer/manufacturer, or vehicle identified herein change prior to voucher redemption or for noncompliance with applicable HVIP requirements;
26. I understand that after a voucher request is submitted, the lessee / end-user fleet / operator cannot be changed;
27. I understand that CARB reserves all rights and remedies available under the law to enforce the terms of this agreement.

Per #18a: I am interested in being contacted by HVIP staff regarding infrastructure planning resources: Yes No

Per #18a: Does this voucher request or batch represent your organization's first zero-

emission vehicle purchase? Yes No

Per #18a: If you answered yes to the question above, have you contacted your utility service provider? Yes No

- If you are not sure which utility service provider is relevant to your project, refer to the map at https://gis.data.ca.gov/datasets/b95ca182aa254c3db8ad4d92bd32a73c_0?geometry=-135.753%2C31.071%2C-102.794%2C43.276

Per #19: Additional Public Funding Sources for this Vehicle:

(Note: Formula funding from the Federal Transit Administration does not need to be included; discretionary FTA funds do need to be included)

Funding Source (i.e, name of grant program)	Funding Organization	Anticipated Funding Amount	Date or Anticipated Date of Funding

By signing HVIP Voucher Request and Terms and Conditions Form, I acknowledge that I have read and understand, and agree to be bound by, the terms and conditions as outlined above.

I certify under penalty of perjury that the information provided is accurate.

Name of Vehicle Purchaser/Lessee:

Signature of Vehicle Purchaser/Lessee:

Date:

City:

State:

**HVIP Voucher Request and Terms and Conditions Form
Dealer
Effective 04/29/2021**

1. I have read, understand and agree to all provisions in the HVIP Implementation Manual;
2. The vehicle and vehicle order information identified on this form are true and correct;
3. I certify that this HVIP voucher request corresponds with a real and completed vehicle order, which has not yet been delivered to the purchaser;
4. I understand that after a voucher request is submitted, the lessee / end-user fleet operator cannot be changed;
5. I agree to seek pre-approval from the California Air Resources Board before any sale of the vehicle or any lease not included on the Voucher Request Form;
6. I have not inflated the price of the HVIP funded vehicle and I agree to deduct 100% of the requested voucher amount from the price of the vehicle;
7. I agree to be available for a follow-up inspection by the California Air Resources Board, Grantee, or their designee, if requested;
8. I agree to keep written records of the vehicle purchase for three years after the purchase date and provide the California Air Resources Board or its designee with these records within ten days of their request. These records include but are not limited to the vehicle invoice, proof of purchase, California Department of Motor Vehicle records, vehicle payment information and related bank records, and purchaser fleet information;
9. I understand that this HVIP voucher request is only valid for this specific vehicle purchaser/lessee and vehicle, and that any voucher provided based on this voucher request will be null and void if the purchaser/lessee and vehicle identified herein change prior to voucher redemption or for noncompliance with applicable HVIP requirements;
10. I agree to keep my Voucher Processing Center account active while I have unredeemed vouchers, including any required training, and including shared accounts.
11. I have the legal authority to participate in HVIP for the Dealer described in this agreement;
12. I understand that any information submitted may be subject to public requests for information.
13. I understand that CARB reserves all rights and remedies available under the law to enforce the terms of this agreement.

By signing HVIP Voucher Request and Terms and Conditions Form, I acknowledge that I have read and understand, and agree to be bound by, the terms and conditions as outlined above. I certify under penalty of perjury that the information provided is accurate.

Name of Dealer Representative:

Signature of Representative:

Date:

City:

State:

Appendix E: HVIP VOUCHER REDEMPTION FORM

Please note that when vouchers are redeemed, an updated version of the Voucher Redemption Form may be provided by the Voucher Processing Center.



HVIP Voucher Redemption Form

Date _____

Voucher # (If a batch, separate redemption forms are still required for each voucher)	
Voucher Amount:	Vehicle Delivered Price:

Purchaser / Lessee Information

Purchaser Contact Name:		
Company Name / Entity:		Parent Company (if any):
Name of Lessor, if vehicle is a lease:		
Vehicle Domicile Address:		
City:	State:	Zip Code:
Purchaser Phone:		Purchaser E-mail:
TIN:	CA #: <input type="checkbox"/> exempt	DOT #: <input type="checkbox"/> exempt
CA # Reason for exemption (if applicable):		
DOT # Reason for exemption (if applicable):		
TRUCRS ID or reason for exemption:		

Dealer Information

Dealer Name:		Company Name:
Address:		
City:	State:	Zip Code:
Phone:		E-mail:

Vehicle Information

Vehicle Manufacturer:		Vehicle Model Year:
Vehicle Type:		
GVWR:		VIN:



Confirmation of Completion of Redemption Checklist

All items identified below must be received and approved by the VPC for voucher redemption:

- Signed Final Invoice – must be signed by purchaser and show the final purchase price less the voucher amount and any other additional incentive funding. It must also provide line items listing:
 - vehicle VIN; vehicle VIN and engine serial number for Natural Gas repowers
 - vehicle base price
 - voucher discount indicated as HVIP-funded
 - all applicable taxes and fees
- Financing Documentation – copy of check, money transfer, or financial arrangements identifying the lien holder and indicating terms of lease
 - » For leases – must provide a copy of the executed lease agreement, along with the lease schedule
 - Lease schedule must illustrate that the full value of the voucher was passed down to the lessee, for example through a capital cost reduction. The cost of the vehicle listed on the lease agreement would reflect the voucher discount; lease payment instalments would be based on that reduced price.
 - Paperwork description: A schedule is an attachment to a master lease that lists and describes the leased item, lease payments, and other terms applicable to the lease. A new lease schedule is executed whenever an item (vehicle) is added to the master lease. The lease terms and conditions may either be fixed as per the master lease or may be subject to individual negotiations for every schedule.
- Signed Delivery Receipt – required for leases only, must be signed and dated by the lessee; document must capture delivery location and VIN and/or serial number of the vehicle
- DMV Registration – must show:
 - California registration
 - Gross Vehicle Weight Rating (GVWR)
 - CA License plate number
 - » A completed Application for Registration of New Vehicle form (REG 397) is acceptable in lieu of the registration. However, the VPC will follow-up with the fleet 6 months after voucher redemption to get copy of the vehicle registration.
- Digital photos of vehicle showing:
 - Vehicle from left side – showing completed vehicle
 - Engine tag – required for vehicles that have a combustion engine, must list engine serial number (ESN) & Engine Family Number (EFN) (not required for electric vehicles)
 - VIN tag – must capture model year or manufacturer date, GVWR & VIN
 - Emissions Control Sticker for re-certified vehicles
- Proof of Mileage at the time of vehicle delivery – not required for Natural Gas repowers, acceptable documents include digital photo of odometer, telematics print out, DMV odometer disclosure statement., etc. (CARB approval is needed if reading exceeds 3,500 miles)
- HVIP Voucher Redemption Form & Vehicle Inspection Form signed electronically by a HVIP authorized dealer / manufacturer

Voucher Number: _____

Vehicle Identification Number: _____

Dealer:

1. I verify that I have submitted all items identified in the Redemption Checklist via website upload to the Voucher Processing Center.
2. The vehicle identified on this form has been delivered.
3. The vehicle has been visually inspected and the inspection form has been completed.
4. The vehicle has been purchased and the information on this form is true and correct.

I certify under penalty of perjury that the information provided is accurate.

Name of Dealer Representative: _____ Company: _____
 Signature of Dealer Representative: _____ Date: _____

Purchaser:

1. The vehicle, vehicle price, and vehicle purchaser information on this form are true and correct.
2. I have reviewed and reaffirm my obligation to adhere to the Terms and Conditions of the Voucher Request Form for this vehicle.

I certify under penalty of perjury that the information provided is accurate.

Name of Vehicle Purchaser/Lessee Representative: _____
 Signature of Vehicle Purchaser/Lessee: _____ Date: _____



HVIP Vehicle Inspection Form

The vehicle must be visually inspected upon delivery to verify the following:

- ✓ the delivered vehicle manufacturer, engine, vehicle description, and vehicle and engine model year match those identified on page one of this form
- ✓ the VIN on the delivered vehicle matches the VIN on page one of this form
- ✓ the vehicle GVWR, bus length, energy storage, or Natural Gas certification identified on page one of this form matches that on the vehicle identification plate.

Please check one of the boxes below to identify who has visually inspected the vehicle:

- The dealer identified on the voucher personally inspected the vehicle
- Another HVIP-approved dealer or OEM has inspected the vehicle. A list of HVIP- approved dealers and participating OEMs can be found at www.californiahvip.org
- CALSTART representative
- I have received prior written approval for an alternative vehicle inspection mechanism and have included a copy of this written approval as an attachment to this form. Approval may be provided by calling the HVIP Toll-Free Hotline at 1-888- 457-4847 or emailing voucherprocessing@tetrattech.com

I certify under penalty of perjury that the information provided is accurate.

Voucher Number: _____

Vehicle Identification Number: _____

Name of Inspector: _____

Inspector's Company Name: _____

Signature of Inspector: _____ Date: _____

If the inspector is different than the dealer, please contact voucherprocessing@tetrattech.com for instructions on how to submit this form.