IMPLEMENTATION MANUAL FOR THE HYBRID AND ZERO-EMISSION TRUCK AND BUS VOUCHER INCENTIVE PROJECT (HVIP) AND LOW NOx ENGINE INCENTIVES IMPLEMENTED THROUGH HVIP

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**Table of Contents**

IMPLEMENTATION MANUAL
FOR THE HYBRID AND ZERO-EMISSION TRUCK AND BUS VOUCHER INCENTIVE PROJECT (HVIP) AND LOW NOx ENGINE INCENTIVES IMPLEMENTED THROUGH HVIP

A. INTRODUCTION AND OVERVIEW ................................................................. 4
B. PROJECT OVERVIEW .................................................................................. 5
   1. Project Framework ................................................................................. 5
C. VEHICLE TECHNOLOGY ELIGIBILITY ....................................................... 7
   1. All Vehicles .......................................................................................... 7
   2. New Hybrid Vehicles ............................................................................ 9
   3. New Zero-Emission Vehicles ................................................................. 12
   4. Hybrid Vehicle Conversions ................................................................. 13
   5. Zero-Emission Vehicle Conversions ...................................................... 14
   6. Aerial Boom Vehicles with ePTO ......................................................... 15
   7. New and Repowered Vehicles Using Low NOx Engines ..................... 16
D. VOUCHER REQUIREMENTS ..................................................................... 17
   1. Voucher Renewal ................................................................................. 18
   2. Voucher Redemption ............................................................................ 19
   3. Vehicle Voucher Amounts ................................................................... 21
   4. Criteria to Expand Fleet Participation ............................................... 25
   5. Voucher Enhancements ....................................................................... 26
   6. Disadvantaged Communities ............................................................... 28
   7. Maximum Allowable Voucher Amount ............................................... 29
   8. Example Calculations .......................................................................... 30
E. DUTIES AND REQUIREMENTS ................................................................. 32
   1. Vehicle and Low NOx Engine Dealers ................................................. 32
   2. Vehicle and Low NOx Engine Purchaser .............................................. 34
   3. Resale of Vehicles ............................................................................... 36
   4. Vehicle Lease or Rental Agencies ....................................................... 37
   5. Battery Leasing .................................................................................... 37
   6. School Buses ....................................................................................... 37
F. OVERSIGHT AND ACCOUNTABILITY ...................................................... 38
G. PROJECT NON-PERFORMANCE ............................................................... 39
H. DEFINITIONS ............................................................................................ 39
I. LIST OF ACRONYMS ............................................................................... 44

APPENDIX A: HVIP and Low NOx Engine Incentives Vehicle Eligibility List
APPENDIX B: Vehicle Eligibility Applications
APPENDIX C: Vehicles Under Common Ownership
APPENDIX D: HVIP and Low NOx Engine Incentives Voucher Request and Terms and Conditions Form
A. INTRODUCTION AND OVERVIEW

In 2007, Governor Schwarzenegger signed into law the California Alternative and Renewable Fuel, Vehicle Technology, Clean Air, and Carbon Reduction Act of 2007 (AB 118, Statutes of 2007, Chapter 750). AB 118 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.

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 and policies and procedures for program implementation based on the framework established in statute. Central to the Guidelines is the requirement for a Board-approved annual funding plan developed with public input. The funding plan is each year’s blueprint for expending AQIP funds appropriated to CARB in the annual State Budget. The funding plan focuses AQIP on supporting development and deployment of the advanced technologies needed to meet California’s longer-term, post 2020 air quality goals.

In 2012, the legislature passed, and Governor Brown signed into law three bills – AB 1532 (Pérez, Chapter 807), Senate Bill (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 Assembly Bill (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 Assembly Bill 32 (AB 32; Núñez, Chapter 488, Statutes of 2006). 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.

HVIP is intended to encourage and accelerate the deployment of zero-emission truck and buses, vehicles using engines that meet the optional low NOx standard, and hybrid trucks and buses in California. HVIP provides vouchers on a first-come, first-served basis. In addition, HVIP provides increased incentives for fleets located in or serving disadvantaged communities. For Low NOx Engine Incentives implemented through HVIP, a renewable fuel contract is required.
HVIP and Low NOx Engine Incentives benefits the citizens of California by providing immediate air pollution emission reductions while stimulating development and deployment of the next generation of zero-emission, hybrid and low NOx commercial vehicles. It is implemented through a partnership between CARB and a Grantee, selected via a competitive CARB grant solicitation.

The Implementation Manual, in conjunction with the Guidelines, and the Fiscal Year (FY) 2017-18 Funding Plan identifies the minimum requirements for implementing the program. 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 and Low NOx Engine Incentives webpage at http://www.californiahvip.org/.

CARB has sole discretion to determine eligibility for HVIP and Low NOx Engine Incentives funding. Definitions of key program parameters are located in Section H of this manual. Additionally, Table 1 clarifies which fiscal year coincides with HVIP project year.

### Table 1: Fiscal Year/HVIP Project Year

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>HVIP Project Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 2009-10</td>
<td>Year 1</td>
</tr>
<tr>
<td>FY 2010-11</td>
<td>Year 2</td>
</tr>
<tr>
<td>FY 2011-12</td>
<td>Year 3</td>
</tr>
<tr>
<td>FY 2012-13</td>
<td>No HVIP</td>
</tr>
<tr>
<td>FY 2013-14</td>
<td>Year 4</td>
</tr>
<tr>
<td>FY 2014-15</td>
<td>Year 5</td>
</tr>
<tr>
<td>FY 2015-16</td>
<td>Year 6</td>
</tr>
<tr>
<td>FY 2016-17</td>
<td>Year 7</td>
</tr>
<tr>
<td>FY 2017-18</td>
<td>Year 8</td>
</tr>
</tbody>
</table>

### B. PROJECT OVERVIEW

#### 1. Project Framework

Figure 1 illustrates a hypothetical vehicle dealer sale and voucher reimbursement transaction. HVIP and Low NOx Engine Incentives provides a voucher for the incentive amount to a registered dealer, redeemable at the time of the vehicle or low NOx engine purchase.

HVIP and Low NOx Engine Incentives website includes a list of eligible trucks, buses, and low NOx engines, as well as the eligible voucher amount for each vehicle and low NOx engine. The webpage includes a voucher request form for the dealer to complete with the purchaser and submit at the time a specific vehicle is ordered. A similar structure also applies to vehicles which are ordered directly from a truck manufacturer or a truck equipment manufacturer (TEM).
Figure 1: Example HVIP Truck or Bus Purchase Transaction

- Purchaser visits dealer to purchase an eligible vehicle.
- Dealer visits HVIP website to verify that funds are available and reviews the list of eligible vehicles.
- Purchaser selects eligible vehicle. Dealer completes the voucher request form.
- Dealer orders the vehicle, submits the voucher request form, and receives a voucher.
- Vehicle is delivered to the dealer.
- Dealer completes the voucher disbursement form with the purchaser; purchaser pays for the vehicle minus the voucher amount and takes possession of the vehicle.
- Dealer submits voucher disbursement form and other documentation, and is reimbursed by the Grantee.

Purchaser is responsible for meeting the terms and conditions of the program.
Key timelines for FY 2017-18 HVIP and Low NOx Engine Incentives development and implementation are identified in Table 2.

Table 2: FY 2017-18 HVIP and Low NOx Engine Incentives Development and Implementation Timeline*

<table>
<thead>
<tr>
<th>Action Item</th>
<th>Date or Time Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Execute new HVIP and Low NOx Engine Incentives Grant Agreement with CALSTART</td>
<td>January 2018</td>
</tr>
<tr>
<td>HVIP and Low NOx Engine Incentives Grantee develops/maintains project webpage, conducts outreach and dealer training. Implementation Manual and voucher forms finalized.</td>
<td>January/February 2018 and ongoing</td>
</tr>
<tr>
<td>Funding available to redeem vouchers.</td>
<td>January 2018 for HVIP. Low NOx available now</td>
</tr>
</tbody>
</table>

* The timeline may be changed at CARB’s sole discretion.

C. VEHICLE TECHNOLOGY ELIGIBILITY

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

1. All Vehicles

   a. The vehicle engine (if applicable), propulsion system, drive train, and batteries/energy storage system(s) must be covered by a manufacturer warranty. Prior to approving a vehicle model for addition to the List of Eligible Vehicles (see Appendix A), 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. 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 engine (if applicable) motor, drive train, battery, parts and labor. For vehicles equipped with low NOx engines, please see Section C(7) for additional information.

      a. Due to the unique duty cycle of yard tractors, the warranty must provide protection for a minimum of 3 years, 50,000 miles, or 3 years, 6,500 hours, whichever comes first, and provide full warranty coverage of at a minimum engine (if applicable) motor, drive train, battery, parts and labor.
b. A vehicle is not eligible for an HVIP or Low NOx Engine Incentives voucher if the same vehicle make and model is receiving public incentive funding as a research, demonstration, or 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 or Low NOx Engine Incentives funding. Vehicles of 5,001-8,500 lbs gross vehicle weight rating (GVWR), may not be used for carpools, rideshares or similar uses.

d. Vehicles that are approved for the Clean Vehicle Rebate Project (CVRP) are not eligible to participate in HVIP and Low NOx Engine Incentives.

e. The chassis of any vehicle receiving an HVIP or Low NOx Engine Incentives voucher must be titled and licensed in California, and the vehicle must be California-registered (if applicable).

f. HVIP or Low NOx Engine Incentives eligible vehicle or low NOx engine must be purchased from a dealer approved by the Grantee to participate in HVIP and Low NOx Engine Incentives.
   a. If the low NOx engine is for a repower, the engine repower must be performed by an installer authorized by the engine manufacturer.

g. Eligible vehicles and low NOx engines must have at least one California-based service provider affiliated with the vehicle or low NOx engine manufacturer and must be capable of vehicle and low NOx 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. For school buses, 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.

k. Telematics: All vehicles, except military vehicles and vehicles equipped with low NOx engines, shall be equipped with a data acquisition system capable of collecting vehicle GPS data and vehicle mileage. Each vehicle manufacturer shall be responsible for providing quarterly reports for the aggregated fleet of vehicles to the Grantee listing the following information:
a. Hours and percentage of total time when the vehicles are operating (operating would mean vehicle is “key on”) within a disadvantaged community or a zip code containing a disadvantaged community for the last quarter and cumulative.

b. Location and time of first key on and last key off of the work day.

c. Total miles and percentage of total miles when the vehicles are driving within a disadvantaged community for the last quarter and cumulative.

d. Vehicle manufacturers shall provide a minimum of three years of data for vehicles from the date of purchase.

For 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

CARB is responsible for developing and updating the list of vehicles and low NOx engines eligible for an HVIP or Low NOx Engine Incentives voucher. Vehicle and low NOx engine make/models identified in Appendix A are eligible for HVIP and Low NOx Engine Incentives. Eligibility applications for new hybrid, and hybrid vehicle conversions, zero-emission, and zero-emission vehicle conversions, aerial boom vehicles with an ePTO, new vehicle equipped with low NOx engines, and low NOx engines used for repowers are found in Appendices B-1, B-2, B-3, B-4 and B-5 respectively. Application submittal instructions and an updated list of eligible vehicles are found at https://www.californiahvip.org/.

CARB has sole discretion to determine eligibility for HVIP and Low NOx Engine Incentives funding. CARB is responsible for developing and updating the list of vehicles, and low NOx engines available for repowers that are eligible for HVIP and Low NOx Engine Incentives vouchers.

2. New Hybrid Vehicles

a. The vehicle must be a new vehicle as defined in California Vehicle Code Section 430.1

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1 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.
b. For the purposes of HVIP, a new chassis that has been converted with aftermarket parts or 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.

Used vehicles (including vehicles used by dealers, manufacturers, or other entities or for demonstration purposes) are not eligible for HVIP.

c. 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. 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 purchaser can demonstrate the vehicle is for commercial (not personal) use only, and meets the intent of HVIP.

   ii. A hybrid vehicle from 10,001 to 14,000 lbs GVWR which is CARB-certified to be sold in California as an original, newly manufactured vehicle.

   iii. A hybrid vehicle over 14,000 lbs GVWR which is CARB-certified (full vehicle certification) to be sold in California.

d. A hybrid vehicle over 14,000 lbs GVWR which is not CARB-certified that demonstrates, pursuant to the Hybrid Vehicle Eligibility Application (as shown in Appendix B-1) that the hybrid system is compatible with continued effective functioning of the vehicle exhaust after-treatment system. The hybrid vehicle shall complete one of the following in order to demonstrate the vehicle will achieve expected in-use emission benefits.

   i. Hybrid vehicle may become HVIP-eligible via voluntary full vehicle certification, utilizing the new optional Heavy-Duty Hybrid-Electric Vehicle Certification Procedures. Hybrid vehicle make/models that become CARB-certified would be eligible for vehicle voucher enhancement. See Section D(5)(c) for additional information regarding voucher enhancements.

   A second option for a hybrid vehicle make/model to become HVIP eligible for hybrid manufacturers unwilling to pursue full vehicle certification is for manufacturers to conduct in-use (Portable Emissions Measurement System (PEMS) or chassis dynamometer emissions testing to ensure the hybrid vehicle does not result in increased NOx emissions compared to the equivalent baseline vehicle. The manufacture must notify CARB regarding which method of testing the manufacturer will use to test NOx emissions (dynamometer or PEMS). The emission testing of hybrid vehicle conversions and the comparable baseline
The vehicle following the same emission test method is referred to as A to B testing, and will be required with PEMS or chassis dynamometer testing. Manufacturers will be required to present a PEMS or chassis dynamometer testing plan that identifies duty cycle, testing parameters, and third-party or manufacture testing. CARB will review and approve the testing plan. Once testing is complete, the vehicle manufacture shall submit all test data along with a completed HVIP application to CARB project liaison before HVIP eligibility is granted. See Appendix B-1 for more information. Once final approval of the Innovative Technology Regulation (ITR) occurs, new hybrid vehicle manufacturers will follow emission testing requirements within that regulation for the pathway to HVIP funding eligibility.

e. The vehicle must use a CARB-certified engine. The engine must be appropriately matched for the intended service class of the hybrid vehicle in which it is used. Engines must meet the following criteria if used in vehicles not yet certified by CARB:

   i. A light heavy-duty engine may be used in a vehicle up to 23,000 GVWR.

   ii. A medium heavy-duty engine may be used in a vehicle up to 38,000 GVWR.

   iii. A heavy heavy-duty engine may be used in a vehicle up to 80,000 GVWR.

   Engines may be used in vehicles above these weight limits only with the prior written consent of CARB Project Liaison.

f. A vehicle must draw propulsion energy from onboard sources of stored energy that are both an internal combustion or heat engine using consumable fuel, and a rechargeable energy storage system. This definition does not exclude plug-in hybrid vehicles.

g. A vehicle must achieve at least a 30 percent fuel economy benefit relative to its equivalent baseline vehicle as determined in accordance with the requirements of Internal Revenue Bulletin 2007-23, City Fuel Economy (www.irs.gov/irb/2007-23_IRB/ar08.html) or other CARB approved procedure. CARB suggests that manufacturers follow the procedure outlined in ITR once final approval of the regulation occurs to determine the 30 percent fuel economy benefit relative to the equivalent baseline vehicle.

h. A 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. (Violation, Vehicle Code 27156).
3. New Zero-Emission Vehicles

Hydrogen fuel cell and battery electric-powered vehicle technologies have been proven to emit zero-emissions when powering medium- and heavy-duty vehicles, and are therefore eligible for HVIP. Other technologies which emit zero-emissions when in operation may be considered for HVIP eligibility on a case-by-case basis.

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.

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 5,001 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 5,001 to 8,500 lbs GVWR may apply for HVIP eligibility; however, vouchers for this lightest vehicle class are provided on a case-by-case basis only if a vehicle purchaser can demonstrate the vehicle is for commercial (not personal) use only, and meets the intent of HVIP.

ii. Zero-emission vehicles above 14,000 lbs GVWR that are CARB-approved. 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.

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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.
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.

d. The vehicle must demonstrate a thirty-five mile all-electric range. If the vehicle is fast charge compatible, as defined in HVIP, then the vehicle must demonstrate a twenty mile all-electric range.

4. Hybrid Vehicle Conversions

For the purpose of HVIP, a hybrid vehicle conversion means installing a hybrid driveline and other advanced technology to a newly manufactured vehicle or chassis. No hybrid vehicle conversions of existing in-use vehicles except as stated in (a) below will be eligible due to uncertainty with durability, warranty, and continued emissions reduction performance. Initially, hybrid vehicle conversions will be required to have CARB aftermarket parts certification and free from additional conditions to be eligible for funding. Once final approval of ITR, occurs, hybrid vehicle conversion manufacturers will follow emission testing requirements within that regulation for the pathway to HVIP funding eligibility. ITR will provide certification and aftermarket part approval flexibility for innovative heavy-duty engine and vehicle technologies.

a. All hybrid vehicle conversions must have CARB aftermarket parts certification and free from additional conditions. Hybrid vehicle conversions may be titled, licensed and registered to a fleet, but may not have travelled more than 25,000 miles. Vouchers for vehicles with more than 25,000 miles may be redeemed on a case-by-case basis with sole approval of CARB Project Liaison with sufficient evidence or explanation justifying such mileage. A voucher will not be issued until the vehicle conversion is verified by the Grantee, CARB, or CARB’s designee. Additionally, conversion systems may be installed on the vehicle model year that is no more than one year earlier than the current vehicle model year at the time of voucher request. For example, if the current model year is 2018, then both 2018 and 2017 model years are eligible for conversions.

b. A hybrid vehicle conversion must achieve at least a 20 percent fuel economy benefit relative to its equivalent baseline vehicle as determined in accordance with the requirements of Internal Revenue Bulletin 2007-23, City Fuel Economy (www.irs.gov/irb/2007-23_IRB/ar08.html) or other CARB approved procedure. CARB suggests that manufacturers follow the procedure outlined in ITR once final approval of the regulation occurs to determine the 20 percent fuel economy benefit relative to the equivalent baseline vehicle.

c. The hybrid vehicle conversion may not emit more NOx emissions compared to the equivalent baseline vehicle.
d. Manufacturers must conduct in-use (Portable Emissions Measurement System (PEMS) or chassis dynamometer emissions testing to ensure the hybrid vehicle does not result in increased NOx emissions compared to the equivalent baseline vehicle. The manufacturer must notify CARB regarding which method of testing the manufacturer will use to test NOx emissions (dynamometer or PEMS). The emission testing of hybrid vehicle conversions and the comparable baseline vehicle following the same emission test method is referred to as A to B testing, and will be required with PEMS or chassis dynamometer testing. Manufacturers will be required to notify CARB that they elect to either (1) conduct chassis dynamometer testing, or (2) submit a PEMS testing plan that identifies duty cycle, testing parameters, and third-party or manufacturer testing. CARB will review the PEMS testing plan, and testing may not begin until CARB approval is granted. Once testing is complete, the vehicle manufacturer shall submit all test data along with a completed HVIP application to CARB project liaison before HVIP eligibility is evaluated. See Appendix B-1 for more information.

e. Refer to Table 10 for specific hybrid vehicle conversion voucher amounts.

5. Zero-Emission Vehicle Conversions

a. New or in-use vehicles with any fuel type that convert to zero-emission, including battery electric and fuel cell technologies.

b. For conversions of any type of vehicle to zero-emission, the aftermarket conversion kits must receive an exemption executive order (EO) from CARB.3

c. A voucher will not be issued until the vehicle conversion is verified by the Grantee, CARB, or CARB’s designee.

d. 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.

e. Refer to Tables 8 and 9 for specific zero-emission vehicle conversion voucher amounts.

f. Proof of compliance with the all-electric range requirements identified in Section C(3)(d).

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3 For more information, go to: https://www.arb.ca.gov/msprog/aftermkt/aftermkt.htm
6. Aerial Boom Vehicles with ePTO

The following vehicle eligibility requirements apply to aerial boom vehicles with ePTO that do not otherwise meet criteria for hybrid or zero-emission vehicles defined in this Implementation Manual:

a. Only aerial boom vehicles over 26,000 lbs GVWR and with a boom working height of at least 50 feet are eligible for funding.

b. Aerial boom vehicles with ePTO powered by lithium ion batteries are eligible for voucher amounts as specified in Table 11.

c. Due to their lower cost, vouchers for aerial boom vehicles with ePTO powered by lead acid battery technology are discounted by $6,000 for the first 100 vouchers per fleet and $4,000 for vouchers 101 through 200.

d. Vehicles whose PTO is powered by a different battery chemistry 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.

e. 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.

f. 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.

g. When the ePTO system is engaged at the jobsite, heating, ventilation, and air conditioning (HVAC) cab comfort must be powered by the ePTO battery.

h. The vehicle must include a telematics device that electronically tracks the following:

   i. engine idle time
   
   ii. battery charge time from engine
   
   iii. battery plug-in charge time
iv. hours of boom operation (stationary)

v. hours of boom movement

Aerial boom vehicles with ePTO are 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 aerial lift during a typical work day. The vehicle must demonstrate completion of a typical duty cycle as shown in Appendix B-3: Aerial Boom Vehicle with ePTO Eligibility Application with ePTO power only.

7. New and Repowered Vehicles Using Low NOx Engines

Below are the minimum criteria necessary for a vehicle equipped with or repowered with a low NOx engine. Once a vehicle is equipped with a low NOx engine, the vehicle must continually meet the minimum criteria as stated. The telematics requirement (Section C(1)(k) does not apply to this section.

a. The low NOx 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.

b. Low NOx Engine funding using funds from AQIP will not require the use of renewable fuel. Small fleets, with three or fewer trucks as defined by the Statewide Truck and Bus Regulation, may utilize conventional, non-renewable fuel and receive Low NOx engine vouchers funded by AQIP for the 11.9-liter engine only. Once AQIP funding is fully allocated, then GGRF funds will be used to fund Low NOx engines with the use of renewable fuel for small fleets.

c. For Low NOx Engine Incentives funded GGRF through HVIP, a renewable fuel contract, and other additional information requested by CARB, will be required before a voucher is paid. The renewable fuel contract must be for 3 years or more and require the use of 100 percent renewable fuel for new vehicles equipped with low NOx engines or existing vehicles repowered with low NOx engines. The 3 year renewable fuel contract must cover the vehicle for 3 years once the vehicle is placed into service or the repowered vehicle is placed back into service. The fuel contract will be reviewed by HVIP and Low NOx Engine Incentives Grantee to verify that the above information is included in the contract. Yearly questionnaires are sent to HVIP and Low NOx Engine Incentives participants. Continued usage of renewable fuel will be monitored via the annual questionnaire for a three year period.

d. No voucher enhancements will be available for vehicles equipped with or repowered with low NOx engines.

e. Refer to Table 12 for specific voucher amount.
a. Other potential low NOx engines may become commercially available and eligible for Low NOx Engine Incentives. Voucher amounts will be based on the incremental costs associated with the low NOx engine and vehicle compared to an equivalent non-low NOx counterpart. As other low NOx engines come to market, staff will determine the appropriate incentive amount, with approval from the Executive Officer.

D. VOUCHER REQUIREMENTS

An HVIP or Low NOx Engine Incentives voucher shall only be provided for a specific vehicle or low NOx engine on order or purchased by a specific customer. The dealer must work with the vehicle or low NOx engine purchaser to complete HVIP and Low NOx Engine Incentives voucher request form (available on HVIP webpage) for HVIP-eligible vehicles. Only vehicles listed as eligible on HVIP and Low NOx Engine Incentives webpage may receive a voucher. The maximum voucher amount for each eligible vehicle will be provided on HVIP and Low NOx Engine Incentives webpage.

The Grantee shall, in coordination with CARB, develop/maintain a system for dealers to quickly, effectively, and transparently request and redeem vouchers. HVIP and Low NOx Engine Incentives webpage shall include all the information necessary for the dealer, in conjunction with the vehicle or low NOx engine purchaser, to complete and 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 and Low NOx Engine Incentives funds are depleted. Fleets that fail to submit annual vehicle surveys/questionnaires as required from any HVIP or Low NOx Engine Incentives funding year are ineligible for additional HVIP and Low NOx Engine Incentives vouchers while this information remains outstanding. Fleets that systematically fail to submit accurate and timely annual usage surveys/questionnaires may be prohibited from future HVIP and Low NOx Engine Incentives participation. See Section E(2) for additional information regarding vehicle or low NOx engine purchaser responsibilities.

Voucher requests can be made electronically by participating dealerships at www.californiahvip.org. Voucher funds are reserved at the time of the electronic voucher request. **Submittal of a voucher request not associated with a real and completed vehicle or low NOx engine order is prohibited.** A completed voucher request form will be printed and signed by both the dealer and the vehicle or low NOx engine purchaser. The dealer will then submit the voucher request form, along with a vehicle or low NOx engine purchase order and copy of the purchaser’s driver’s license or other official identification with signature within two weeks of the electronic voucher request. The purchase order provided by the dealer must represent a real vehicle order.

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4 [https://www.californiahvip.org/](https://www.californiahvip.org/)
Dealers and participating fleets which provide false or misleading information may be barred from future participation in HVIP and Low NOx Engine Incentives or face other penalties.

Failure to provide this information within two weeks of the original voucher request will nullify the electronic voucher request. 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 requests will be accepted into the queue in the order in which they are received from the online request system. The Grantee will maintain a contingency list of vouchers requested once the initial voucher project funding has been subscribed. The contingency list will be used if vouchers are rejected (and funding unobligated) or if additional project funding becomes available.

The dealer must also provide the vehicle identification number (VIN) or a serial number that uniquely identifies the vehicle and the expected delivery date within thirty calendar days of the electronic voucher request. This information confirms that the dealer has made an order with the manufacturer. The order should be placed prior to, or in conjunction with, making a voucher request. The Grantee has the right to reject the voucher at this point if the VIN or serial number does not match the vehicle identified on the voucher request. Once all voucher request forms and information are received by the Grantee, a voucher will be issued within five business days. A voucher will only be redeemed if the vehicle or low NOx engine purchaser and delivered vehicle or low NOx engine make/model and other defining information match that on the voucher request form.

1. **Voucher Renewal**

An HVIP and Low NOx Engine Incentives voucher will be valid for three months from the time it is issued by the Grantee. A voucher may be renewed by the participating dealership at any point within those three months 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 which is not renewed within any three month period will be deemed expired and the voucher funds will be allocated to the next eligible HVIP and Low NOx Engine Incentives participant. A voucher must be redeemed within one year (365 days) of the electronic voucher request. Request for voucher extensions beyond one year 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 one year shall be made by the Grantee in consultation with CARB, and shall be based upon factors, including but not limited to the projected vehicle delivery date, demand from other participants for remaining available HVIP and Low NOx Engine Incentives 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 one year period for three years after voucher redemption.
2. Voucher Redemption

Once a vehicle has been delivered, purchased, and is ready to be placed into service the dealer must submit the voucher and required documentation to the Grantee for redemption. A voucher will only be honored if the vehicle and purchaser listed on the voucher match that in the completed purchase transaction. HVIP and Low NOx Engine Incentives voucher redemption requests must also meet the following criteria:

a. An HVIP and Low NOx Engine Incentives voucher can only be redeemed upon vehicle or low NOx engine 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 low NOx engines, vouchers may be redeemed when the customer takes delivery of the engines and has paid the balance due (minus incentive amount). As engines are installed in vehicles, the balance of required documentation is to be provided to the Grantee.

c. Fleets may only request vouchers for those low NOx engines that are anticipated to be installed within three months of the date of voucher request. For large engine orders (more than 50), fleets will required to break the voucher requests into smaller increments that represent no more than three months of inventory.

d. A copy of the delivery Bill of Lading, final vehicle invoice, temporary California Department of Motor Vehicle (DMV) registration or DMV tags for the purchased vehicle must be provided to confirm delivery and purchase specifications, and a copy of vehicle Line Setting Ticket (otherwise known as the Factory Build Sheet) must be provided to confirm vehicle GVWR. Documents must contain the vehicle identification number. CARB may approve HVIP and Low NOx Engine Incentives 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. For low NOx engine repowers, a copy of the final repower invoice containing the VIN and low NOx engine serial number and a copy of the low NOx engine invoice listing all engine serial numbers must be provided to the Grantee. For low NOx engine repowers, a final repower invoice must be signed and dated.

f. The Bill of Lading and final vehicle invoice must be signed and dated.

g. The final vehicle invoice must show that the voucher amount has been fully discounted from the vehicle or low NOx engine purchase price.

h. The vehicle GVWR as designated on the manufacturer Line Setting Ticket must be consistent with the vehicle’s base vehicle incentive identified in Tables 3 through 10 in Section D(3). Not applicable for low NOx engine repowers.
i. Financial documentation identifying the method and date of final payment to the dealer must be provided 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.

j. Digital inspection photos of the vehicle showing that it is ready to be placed into service must be provided prior to voucher redemption.

k. The vehicle must have no more than 3,500 miles at time of the vehicle inspection or no more than 25,000 miles for hybrid vehicle conversions. Vouchers for vehicles with more than 3,500 miles or hybrid vehicle conversions with more than 25,000 miles may be redeemed on a case-by-case basis with sole approval of CARB Project Liaison with sufficient evidence or explanation justifying such mileage. Not applicable for low NOx engine repowers.

l. An original HVIP and Low NOx Engine Incentives Vehicle Inspection Form signed by HVIP and Low NOx Engine Incentives approved and authorized dealer or a third-party designated by the dealer or CARB must be provided prior to voucher redemption.

m. A signed copy of the voucher redemption form must be provided prior to voucher redemption. Original dealer and purchaser signatures are required on this document and an original copy of this document must be sent in the mail to the Grantee (or its designee).

n. All documents that are submitted to the Grantee or its subcontractor for processing voucher redemption must clearly indicate the voucher number.

o. The dealer must submit all voucher redemption documentation within 60 days after vehicle delivery to fleet location. Failure to provide all the required documentation by this deadline will nullify the voucher.

When program funding is available, it is the goal of HVIP and Low NOx Engine Incentives to provide payment to the dealership within five 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 must notify the dealership by phone or email at the earliest possible time of such delay.

Only completed and accurate voucher redemption forms will be accepted. A voucher shall only be redeemed if the vehicle and purchaser match that on the original voucher request form. CARB, the Grantee, and HVIP and Low NOx Engine Incentives 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 and Low NOx Engine Incentives funds are still available, the dealer and new purchaser may request a new voucher.

Voucher applications that have been denied or cancelled by the Administrator may be appealed within 10 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 and Low NOx Engine Incentives Terms and Conditions and the Implementation Manual, there is no basis for an appeal. A formal letter of appeal must be postmarked within 10 days of a cancelled application and addressed to the following:

CARB Project Liaison: Ryan Murano

Via US Postal Service must be mailed to the following address:

Ryan Murano  
Air Resources Board  
Mobile Source Control Division  
Post Office Box 2815  
Sacramento, California 95812

In person or via another delivery service may be delivered to the following address:

Ryan Murano  
Air Resources Board  
Mobile Source Control Division  
1001 I Street  
Sacramento, California 95814

Appeals made by email, fax or phone will not be considered. The appeal shall contain all facts and documentation upon which the appeal is based. Failure to supply this information shall be grounds for rejection of the appeal. A written response to the appeal will be provided by CARB Project Liaison within 60 days of receipt. CARB’s decision shall be final and binding.

3. Vehicle Voucher Amounts

Eligible new zero-emission and new hybrid vehicles may receive an HVIP voucher based on GVWR for up to the funding amounts identified in the Base Vehicle Incentive column in Tables 3, 5, 6 and 7. For transit buses, voucher amounts may also be based on bus lengths as identified in Table 4. Eligible zero-emission vehicle conversions may receive an HVIP voucher for up to the funding amounts identified in the Base Vehicle Incentive column in Table 8. For transit bus zero-emission vehicle conversions, voucher amounts may also be based on bus lengths as identified in Table 9. Eligible hybrid vehicle conversions may receive an HVIP voucher identified in the Vehicle Incentive column as specified in Table 10. Eligible ePTO vehicles may receive a voucher as identified in Table 11. New vehicles equipped with or vehicles repowered with a low NOx engine are eligible for a voucher as stated in Table 12.
Table 3: Zero-Emission Truck Voucher Amounts

<table>
<thead>
<tr>
<th>GVWR (lbs)</th>
<th>Base Vehicle Incentive</th>
<th>1 to 100 vehicles</th>
<th>&gt;100 vehicles</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Outside Disadvantaged Community</td>
<td>In Disadvantaged Community</td>
</tr>
<tr>
<td>5,001 – 8,500</td>
<td>$20,000</td>
<td>$25,000</td>
<td>$12,000</td>
</tr>
<tr>
<td>8,501 – 10,000</td>
<td>$25,000</td>
<td>$30,000</td>
<td>$18,000</td>
</tr>
<tr>
<td>10,001 – 14,000</td>
<td>$50,000</td>
<td>$55,000</td>
<td>$30,000</td>
</tr>
<tr>
<td>14,001 – 19,500</td>
<td>$80,000</td>
<td>$90,000</td>
<td>$35,000</td>
</tr>
<tr>
<td>19,501 – 26,000</td>
<td>$90,000</td>
<td>$100,000</td>
<td>$40,000</td>
</tr>
<tr>
<td>26,001 – 33,000</td>
<td>$95,000</td>
<td>$110,000</td>
<td>$45,000</td>
</tr>
<tr>
<td>&gt;33,000</td>
<td>$150,000</td>
<td>$165,000</td>
<td>$70,000</td>
</tr>
<tr>
<td>Hydrogen Fuel Cell Electric Truck</td>
<td>$300,000</td>
<td>$315,000</td>
<td>$142,000</td>
</tr>
</tbody>
</table>

1 - The first three vouchers received by a fleet, inclusive of previous funding years, are eligible for the following additional funding amount: $2,000/vehicle if below 8,501 lbs; $5,000/vehicle if 8,501 to 10,000 lbs; and $10,000/vehicle if over 10,000 lbs.

Table 4: Zero-Emission Transit Bus Voucher Amounts

<table>
<thead>
<tr>
<th>Bus Length and Bus Type</th>
<th>Base Vehicle Incentive</th>
<th>1 to 100 vehicles</th>
<th>&gt;100 vehicles</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Outside Disadvantaged Community</td>
<td>In Disadvantaged Community</td>
</tr>
<tr>
<td>20 ft – 24 ft</td>
<td>$80,000</td>
<td>$90,000</td>
<td>$35,000</td>
</tr>
<tr>
<td>25 ft – 29 ft</td>
<td>$90,000</td>
<td>$100,000</td>
<td>$40,000</td>
</tr>
<tr>
<td>30 ft – 39 ft</td>
<td>$120,000</td>
<td>$135,000</td>
<td>$55,000</td>
</tr>
<tr>
<td>40 ft – 59 ft</td>
<td>$150,000</td>
<td>$165,000</td>
<td>$70,500</td>
</tr>
<tr>
<td>≥ 40 ft. Double Decker Bus</td>
<td>$175,000</td>
<td>$190,000</td>
<td>$82,250</td>
</tr>
<tr>
<td>≥ 60 ft. Zero-Emission Battery-Electric Articulating Transit Bus</td>
<td>$175,000</td>
<td>$190,000</td>
<td>$82,250</td>
</tr>
<tr>
<td>≥ 40 ft. Hydrogen Fuel Cell Electric Bus</td>
<td>$300,000</td>
<td>$315,000</td>
<td>$142,500</td>
</tr>
</tbody>
</table>

1 - The first three vouchers received by a fleet for transit buses, inclusive of previous funding years, are eligible for the $10,000/vehicle in additional funding amounts.
### Table 5: Zero-Emission Shuttle Bus Voucher Amounts

<table>
<thead>
<tr>
<th>GVWR (lbs)</th>
<th>Base Vehicle Incentive</th>
<th>1 to 100 vehicles¹</th>
<th>Outside Disadvantaged Community</th>
<th>In Disadvantaged Community</th>
<th>&gt;100 vehicles</th>
</tr>
</thead>
<tbody>
<tr>
<td>8,501 – 10,000</td>
<td>$25,000</td>
<td>$30,000</td>
<td>$18,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10,001 – 14,000</td>
<td>$50,000</td>
<td>$55,000</td>
<td>$30,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14,001 – 19,500</td>
<td>$80,000</td>
<td>$90,000</td>
<td>$35,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19,501 – 26,000</td>
<td>$90,000</td>
<td>$100,000</td>
<td>$40,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26,001–33,000</td>
<td>$120,000</td>
<td>$135,000</td>
<td>$55,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;33,000</td>
<td>$150,000</td>
<td>$165,000</td>
<td>$70,500</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ The first three vouchers received by a fleet, inclusive of previous funding years, are eligible for the following additional funding amount: $5,000/vehicle if 8,501 to 10,000 lbs; and $10,000/vehicle if over 10,000 lbs.

### Table 6: Eligible New Zero-Emission School Bus Voucher Amounts

<table>
<thead>
<tr>
<th>GVWR (lbs)</th>
<th>Base Vehicle Incentive</th>
<th>1 to 100 vehicles¹</th>
<th>Outside Disadvantaged Community</th>
<th>In Disadvantaged Community</th>
<th>&gt;100 vehicles</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,001 – 8,500</td>
<td>$25,000</td>
<td>$30,000</td>
<td>$12,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8,501 – 10,000</td>
<td>$30,000</td>
<td>$35,000</td>
<td>$18,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10,001 – 14,000</td>
<td>$55,000</td>
<td>$60,000</td>
<td>$30,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14,001 – 16,000</td>
<td>$90,000</td>
<td>$100,000</td>
<td>$35,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16,001 – 26,000</td>
<td>$150,000</td>
<td>$160,000</td>
<td>$85,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26,001 – 29,000</td>
<td>$175,000</td>
<td>$190,000</td>
<td>$90,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;29,000</td>
<td>$220,000</td>
<td>$235,000</td>
<td>$110,000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ The first three vouchers received by a fleet, inclusive of previous funding years, are eligible for the following additional funding amount: $2,000/vehicle if below 8,501 lbs; $5,000/vehicle if 8,501 to 10,000 lbs; and $10,000/vehicle if over 10,000 lbs.

### Table 7: Eligible New Hybrid Truck and Bus Voucher Amounts

<table>
<thead>
<tr>
<th>GVWR (lbs)¹</th>
<th>Base Vehicle Incentive</th>
<th>1 to 100 vehicles</th>
<th>&gt; 100 vehicles</th>
</tr>
</thead>
<tbody>
<tr>
<td>6,001 – 8,500</td>
<td>$8,000</td>
<td>$6,000</td>
<td></td>
</tr>
<tr>
<td>8,501 – 10,000</td>
<td>$10,000</td>
<td>$8,000</td>
<td></td>
</tr>
<tr>
<td>10,001 – 19,500</td>
<td>$15,000</td>
<td>$10,000</td>
<td></td>
</tr>
<tr>
<td>19,501 – 26,000</td>
<td>$20,000</td>
<td>$12,000</td>
<td></td>
</tr>
<tr>
<td>26,001 – 33,000</td>
<td>$25,000</td>
<td>$15,000</td>
<td></td>
</tr>
<tr>
<td>&gt;33,000</td>
<td>$30,000</td>
<td>$20,000</td>
<td></td>
</tr>
</tbody>
</table>

¹ Tractor trailers utilize Gross Combined Vehicle Weight for purposes of determining Base Vehicle Incentive.
**Table 8: Eligible Zero-Emission Truck and Bus Vehicle Conversion Voucher Amounts**

<table>
<thead>
<tr>
<th>GVWR (lbs)</th>
<th>Base Vehicle Incentive</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 to 100 vehicles¹,²</td>
<td>&gt;100 vehicles</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Outside Disadvantaged Community</td>
<td>In Disadvantaged Community</td>
<td></td>
</tr>
<tr>
<td>5,001 – 8,500</td>
<td>$15,000</td>
<td>$18,750</td>
<td>$9,000</td>
</tr>
<tr>
<td>8,501 – 10,000</td>
<td>$18,750</td>
<td>$22,500</td>
<td>$13,500</td>
</tr>
<tr>
<td>10,001 – 14,000</td>
<td>$37,500</td>
<td>$41,250</td>
<td>$22,500</td>
</tr>
<tr>
<td>14,001 – 19,500</td>
<td>$60,000</td>
<td>$67,500</td>
<td>$26,250</td>
</tr>
<tr>
<td>19,501 – 26,000</td>
<td>$67,500</td>
<td>$75,000</td>
<td>$30,000</td>
</tr>
<tr>
<td>&gt; 26,000</td>
<td>$71,250</td>
<td>$82,500</td>
<td>$33,750</td>
</tr>
</tbody>
</table>

¹-The first three vouchers received by a fleet, inclusive of previous funding years, are eligible for the following additional funding amount: $2,000/vehicle if below 8,501 lbs; $5,000/vehicle if 8,501 to 10,000 lbs; and $10,000/vehicle if over 10,000 lbs.
²-Zero-emission conversion funding amounts may cover up to 50 percent of the conversion cost but not to exceed the funding levels listed in this table. All voucher enhancements available for new zero-emission trucks and buses will apply to zero-emission vehicle conversions.

**Table 9: Zero-Emission Transit Bus Vehicle Conversion Voucher Amounts**

<table>
<thead>
<tr>
<th>Bus Length</th>
<th>Base Vehicle Incentive</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 to 100 vehicles¹,²</td>
<td>&gt;100 vehicles</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Outside Disadvantaged Community</td>
<td>In Disadvantaged Community</td>
<td></td>
</tr>
<tr>
<td>20 ft – 24 ft</td>
<td>$60,000</td>
<td>$67,500</td>
<td>$26,250</td>
</tr>
<tr>
<td>25 ft – 29 ft</td>
<td>$67,500</td>
<td>$75,000</td>
<td>$30,000</td>
</tr>
<tr>
<td>≥ 30 ft</td>
<td>$71,250</td>
<td>$82,500</td>
<td>$33,750</td>
</tr>
</tbody>
</table>

¹ - The first three vouchers received by a fleet for transit buses, inclusive of previous funding years, are eligible for the $10,000/vehicle in additional funding amounts.
² - Zero-emission conversion funding amounts may cover up to 50 percent of the conversion cost but not to exceed the funding levels listed in this table. All voucher enhancements available for new zero-emission trucks and buses will apply to zero-emission vehicle conversions.
Table 10: Eligible Hybrid Truck and Bus Vehicle Conversion Voucher Amounts

<table>
<thead>
<tr>
<th>GVWR (lbs)¹</th>
<th>Base Vehicle Incentive</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6,001 – 8,500</td>
<td>$2,000</td>
<td>$1,000</td>
<td></td>
</tr>
<tr>
<td>8,501 – 10,000</td>
<td>$6,000</td>
<td>$3,000</td>
<td></td>
</tr>
<tr>
<td>10,001 – 19,500</td>
<td>$9,000</td>
<td>$4,500</td>
<td></td>
</tr>
<tr>
<td>19,501 – 26,000</td>
<td>$12,000</td>
<td>$6,000</td>
<td></td>
</tr>
<tr>
<td>26,001 - 33,000</td>
<td>$15,000</td>
<td>$7,500</td>
<td></td>
</tr>
<tr>
<td>&gt; 33,000</td>
<td>$18,000</td>
<td>$9,000</td>
<td></td>
</tr>
</tbody>
</table>

1- Tractor trailers utilize Gross Combined Vehicle Weight for purposes of determining Base Vehicle Incentive.

2- ¹ A vehicle that achieves 35 miles or more of AER are eligible for the following additional funding amounts: $5,000/vehicle if below 8,501 lbs; $10,000/vehicle if 8,501 to 19,500 lbs; and $45,000/vehicle if over 19,500 lbs.

Table 11: Eligible ePTO Voucher Amounts

<table>
<thead>
<tr>
<th>GVWR (lbs)</th>
<th>Base Vehicle Incentive</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>16,001 – 19,500</td>
<td>$15,000</td>
<td>$10,000</td>
<td></td>
</tr>
<tr>
<td>19,501 – 26,000</td>
<td>$20,000</td>
<td>$12,000</td>
<td></td>
</tr>
<tr>
<td>26,001 - 33,000</td>
<td>$25,000</td>
<td>$15,000</td>
<td></td>
</tr>
<tr>
<td>&gt; 33,000</td>
<td>$30,000</td>
<td>$20,000</td>
<td></td>
</tr>
</tbody>
</table>

1- The first three vouchers received by a fleet, inclusive of previous funding years, are eligible for the $10,000/vehicle in additional funding amounts.

Table 12: Low NOx Engine Voucher Amount

<table>
<thead>
<tr>
<th>Engine Manufacturer/Displacement/Low NOx Certification</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cummins Westport/8.9 Liter/0.02 g/bhp-hr</td>
<td>$10,000</td>
</tr>
<tr>
<td>Cummins Westport/11.9 Liter/0.02 g/bhp-hr</td>
<td>$40,000</td>
</tr>
</tbody>
</table>

4. Criteria to Expand Fleet Participation

a. Increased Incentive Amount for First Three Vouchers per Fleet

Voucher enhancements of up to $10,000 per vehicle for the first three vouchers per fleet are intended to further encourage a diversity of fleets to purchase a zero-emission truck, bus or ePTO. To help extend limited HVIP funds and better serve new and smaller fleets, the first three vouchers per fleet inclusive of all funding years are eligible for this additional voucher enhancement. Vehicles equipped with low NOx engines, hybrid vehicles, and hybrid vehicle conversions are not eligible for voucher enhancements, except for hybrid vehicle conversions that achieve 35 miles of AER. These vehicles are eligible for the additional voucher amounts stated in Table 10.

In addition, the above voucher enhancements of up to $10,000 per vehicle shall be applied for each discrete HVIP-eligible technology, since one purpose of this project is to encourage fleets to consider new, advanced technologies when buying a new truck or bus. These technologies are: aerial boom vehicle with ePTO; zero-emission battery-electric vehicle; and
zero-emission fuel cell vehicle. For example, a fleet that had previously received voucher enhancements for its first three new battery-electric vehicles would still be eligible for the voucher enhancement for its first three vouchers for utility boom vehicles with ePTO; and zero-emission fuel cell vehicles.

b. Definition of a Single Fleet

For the purposes of HVIP and Low NOx Engine Incentives, vehicles under common ownership or fiduciary control of a fleet—including but not limited to entities sharing a common Taxpayer Identification Number (TIN) or California Carrier Identification Number (CA #)—are considered part of a single fleet even if they are part of different subsidiaries, divisions, or other organizational structures of a company, government agency, or other entity.

Appendix D provides additional information and examples regarding how common ownership or control is defined for the purposes of HVIP and Low NOx Engine Incentives. CARB or its designee may seek financial reimbursement and/or civil and criminal penalties from a vehicle purchaser for nondisclosure or inaccurate disclosure of its TIN, CA #, or other information relating to common ownership or fiduciary control of the purchasing entity. The lessee is considered the vehicle purchaser for transactions in which the vehicle is purchased by a vehicle leasing agency and leased to an end-user for three or more years at the time of HVIP and Low NOx Engine Incentives voucher redemption. Questions regarding common ownership or fiduciary control of an organization should be directed to CARB Project Liaison, Ryan Murano, at ryan.murano@arb.ca.gov.

5. Voucher Enhancements

This section does not apply to vehicles equipped with low NOx engines, new hybrid vehicles or hybrid vehicle conversions.

Advanced technologies and vehicles that further promote CARB clean air policy goals may be eligible for higher voucher amounts. These vehicles have the potential to provide additional emission benefits, further advance vehicle technology, and protect public health.

a. Exportable Power

HVIP eligible plug-in utility vehicles or vehicles below 10,001 lbs GVWR that are equipped with exportable power are eligible for an additional $2,000 voucher. To be eligible, the exportable power system must:

i) Be a new exportable power system that is fully integrated into HVIP-eligible vehicle during the vehicle’s original manufacture.

ii) Provide a minimum of 3.0 kilowatts of auxiliary power (able to power electric tools, lighting and accessories at a job site or to take the place of a small electric generator).
iii) Be covered by a minimum 3 year warranty for parts and labor.

Vehicle manufacturers must submit proof of an export power option meeting the above minimum criteria during HVIP vehicle eligibility application process. CARB reserves the right to deny approval of an export power voucher if export power usage on the proposed vehicle cannot be justified (i.e., the vehicle must be in a vocation in which export power is utilized). CARB may approve other HVIP-eligible vehicle types for the additional HVIP incentive on a case-by-case basis based upon evidence of export power commercial availability and utilization.

b. Extended Warranties

Extended vehicle and component warranties provide fleets purchasing HVIP-eligible vehicles with additional assurances and certainty regarding vehicle reliability, maintenance costs, and battery life. HVIP allows vehicle manufacturers to apply for an extended warranty voucher enhancement of: $2,000 for warranty coverage of 6 years or 120,000 miles; $4,000 for 7 years or 140,000 miles; or $6,000 for 8 years or 160,000 miles (whichever comes first, years or mileage, for all 3 options). Manufacturers may only apply for the extended warranty voucher enhancement at the time of their HVIP eligibility application for each vehicle make, model and model year. Additionally, for eligible yard tractors, manufacturers may apply for an extended warranty voucher enhancement of: $2,000 for warranty coverage of 6 years, 120,000 miles, or 16,000 hours of operation; $4,000 for 7 years, 140,000 miles, or 18,500 hours of operation; or $6,000 for 8 years, 160,000 miles, or 21,000 hours of operation (whichever comes first, years or mileage, for all 3 options).

A manufacturer may not receive the warranty enhancement on just a subset of each HVIP-eligible make and model – all HVIP-eligible vehicles of the same make, model and model year must receive an identical extended warranty. To be eligible for the enhanced voucher amounts, extended warranties must cover the following for the full warranty period:

i) **Extended Powertrain (including Battery), and Electric Drive Components:**
Provide warranty coverage against defects in material and workmanship for the powertrain including battery system and power plant and any associated components. Gaskets and seals are not required to be included in warranty coverage.

a. The battery warranty may be prorated after the first 60 months of coverage. If the battery warranty is prorated, the percentage of the battery pack's original value to be covered or refunded must be at least as high as the percentage of the prorated coverage period still remaining. For example, manufacturer warranty coverage of $8,000 and 7 years (84 month) for the battery prorated beginning in year 5 (60 months) must provide at least $6,000 coverage after 66 months, $4,000 coverage after 72 months, and $2,000 coverage after 78
months. For the purpose of this computation, the age of the battery pack must be expressed in intervals no larger than three months.

ii) **Emissions:** Provide warranty coverage for the vehicle emission control system as required by Title 13, California Code of Regulations, Section 2036.

iii) **Frame, Cross Members, and Cab:** Provide warranty against structural cracks in the frame caused by defects in material workmanship and against corrosion perforation of the frame, cross members, and cab structure.

Warranties must be fully transferrable to subsequent vehicle purchasers for the full warranty coverage period.

c. **Inductive Charging**

With inductive charging, there is no direct connection. The inductive system does not require a physical connection to be made. The battery (in its vehicle) is simply moved into close proximity to the inductive coils, and the charging occurs automatically by magnetic resonance coupling. Inductive chargers are typically located overhead or in the roadbed beneath the vehicle. Inductive charging systems are very convenient and require little driver attention. However, they are more costly than conductive systems. In order to reflect their much higher incremental cost, and to encourage initial market penetration of advanced technology zero-emission vehicles, HVIP provides a higher voucher amount for commercialized, HVIP-eligible zero-emission vehicles equipped with inductive charging technology. Vehicles with a GVWR of 6,001-19,500 are eligible for a voucher enhancement of $10,000 per vehicle. Vehicles with a GVWR of 19,501-33,000 GVWR are eligible for a voucher enhancement of $15,000 per vehicle, and $20,000 per vehicle greater than 33,000 GVWR.

6. **Disadvantaged Communities**

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 website.

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.

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5 http://www.calepa.ca.gov/EnvJustice/GHGInvest/
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.

The FY 2017-18 Funding Plan includes several strategies to increase vehicle deployments with a focus on disadvantaged communities, including higher zero-emission truck and bus voucher amounts, and an additional voucher enhancement for zero-emission vehicle deployments that benefit disadvantaged communities.\(^6\)

### 7. Maximum Allowable Voucher Amount

The total voucher amount – including HVIP Base Vehicle Incentive plus voucher enhancements plus all other public incentives may not exceed 90 percent of the total vehicle 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.

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 hybrid or aerial boom vehicles with ePTO – excluding the voucher bump-up for the first three vehicles per fleet – may not exceed the vehicle incremental cost. Funding for vehicles equipped or repowered with low NOx engines may not exceed the incremental cost between a baseline vehicle/engine and a vehicle/engine certified to the low NOx standard using the same fuel type. In the case that incentives are being combined with funding from another program, if the incremental cost between a baseline vehicle/engine and the low NOx vehicle/engine variant is already being covered, the vehicle/engine is not eligible for Low NOx Engine Incentives through HVIP. If a portion of the incremental cost is covered by another funding source, then the Low NOx Engine Incentives voucher will be discounted in order not to exceed incremental cost.

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

Publicly owned vehicles, including public school buses, public transit buses, and municipal vehicles are the exception to these requirements. For publicly owned vehicles, the sum of HVIP and other 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.

\(^6\) California Air Resources Board, Fiscal Year 2017-18 Funding Plan for the Air Quality Improvement Program and Low Carbon Transportation Greenhouse Gas Reduction Fund Investments, December 14, 2017; [www.arb.ca.gov/msprog/aqip/fundplan/fundplan.htm](www.arb.ca.gov/msprog/aqip/fundplan/fundplan.htm)
8. Example Calculations

HVIP and Low NOx Engine Incentives is intended to allow vehicle or low NOx engine purchasers to augment HVIP and Low NOx Engine Incentives funds with other sources of public funding. Examples of program funds that may be combined with HVIP funds include Lower Emission School Bus Program funds and local air district funding.

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 $75,000 to replace an old truck with a new $140,000 diesel truck of 35,000 lbs GVWR. HVIP augments this grant by providing a $25,000 voucher for the purchaser to upgrade to a $200,000 hybrid truck. The hybrid truck incremental cost is $60,000. HVIP voucher amount (excluding any HVIP voucher enhancement for the first three vouchers per fleet) cannot exceed the incremental cost, and the sum of the district grant and HVIP voucher cannot exceed 90 percent of the hybrid vehicle purchase cost.

In this case, $25,000 HVIP voucher < $60,000 vehicle incremental cost

$75,000 district grant + $25,000 HVIP voucher = $100,000

$200,000 * 90 percent = $180,000

$100,000 total public funds < $180,000

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. 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. Therefore, the maximum allowable HVIP voucher could not exceed $140,000.

\[
\text{$640,000 \text{ FTA Grant} + \$20,000 \text{ CMAQ Funding}}
\]

\[\text{=$660,000 \text{ Other Public Incentive Funds}}\]

HVIP voucher cannot exceed $140,000

The Base Voucher Incentive within a disadvantaged community is $165,000, and the Base Vehicle Incentive outside of a disadvantaged community is $150,000 (See Table 4).
The maximum allowable voucher amount may not exceed $140,000 since the sum of all public incentives cannot exceed the full vehicle cost. The HVIP voucher will be discounted to $140,000.

**EXAMPLE 3:** The California Energy Commission (Energy Commission) provides funding to eligible applicants for the purchase of natural gas medium- and heavy-duty vehicles through the Natural Gas Vehicle Incentive Project (NGVIP). A refuse fleet with trucks with GVWR above 33,000 lbs wants to switch fuels from diesel to natural gas using low NOx engines. The Energy Commission provides an incentive amount of $25,000 for vehicles with GVWR greater than 33,000 lbs. for each refuse truck regardless if the engine is low NOx or not.

It should be noted in the NGVIP Application Manual Section 9 (Incentive Total Cannot Exceed Incremental Cost of Conventional Counterpart) that “When the incentives offered under the NGVIP are combined with any natural gas vehicle incentive, the combined incentives cannot exceed the incremental cost of the eligible vehicle compared to its gasoline or diesel counterpart with similar trim levels.”

Under this example, if the fleet is purchasing a low NOx refuse truck with a voucher amount of $10,000, the total combined incentive amount the fleet may receive for each truck is $35,000 calculated as a $25,000 incentive from Energy Commission and $10,000 from incentives for low NOx engines.

**EXAMPLE 4:** A fleet is replacing a 2009 Class 8 truck with a 2018 Class 8 truck using a 8.9-liter low NOx natural gas engine. The fleet has secured a $100,000 Prop 1B incentive that requires a 0.02 g/bhp-hr engine. This vehicle is not eligible for an HVIP voucher because it is already receiving incentive funding that is based on the new vehicle meeting the optional Low NOx standard.

**EXAMPLE 5:** The Carl Moyer Memorial Air Quality Standards Attainment Program (Carl Moyer Program) provides grant funding for the incremental cost of cleaner-than-required engines, equipment, and emission reduction technologies and complements California’s regulatory program by funding emission reductions that are surplus, i.e., early and/or in excess of what is required by regulation. The On-Road Voucher Incentive Program (VIP) is part of the Carl Moyer Program and is a streamlined funding option for heavy-duty diesel vehicle replacements.

A fleet of less than 10 trucks with GVWR above 33,000 lbs with no Truck and Bus Regulatory 2010 emission standard compliance date before January 1, 2023 is looking to replace a truck with a 2007 engine in 2018 with minimum annual usage of 58,000 miles, is eligible for $45,000 under VIP for a new truck replacement meeting the 0.20g/bhp-hr NOx standard. Under this example, if the fleet is purchasing a low NOx truck with the Cummins Westport 11.9 liter engine,

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7 [https://ngvip.its.uci.edu/](https://ngvip.its.uci.edu/)
the total combined incentive amount the fleet may receive for each truck is $85,000 with $45,000 incentive from VIP and $40,000 from low NOx engine incentives. The on-road VIP incentive would be valid through December 31, 2018.

The VIP funding amounts are pre-determined and shown in the VIP Guidelines\(^8\) and are updated annually, as funding amounts are based on the number of years the vehicle will provide surplus emission reductions. For more information on the VIP, please visit: https://www.arb.ca.gov/msprog/moyer/voucher/voucher.htm .

E. DUTIES AND REQUIREMENTS

1. Vehicle and Low NOx Engine Dealers

Truck and bus dealers play a central role in HVIP and Low NOx Engine Incentives success. The Grantee will work with CARB to develop/maintain a list of dealerships eligible to participate in HVIP and Low NOx Engine Incentives, and to receive a written commitment from these dealers to comply with all applicable project requirements. The eligible dealership 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 and Low NOx Engine Incentives:

a. A truck or bus dealership which has a written agreement with a medium- or heavy-duty vehicle manufacturer, which has had a valid business license for the past two years, and which has an official dealer number.

b. A truck, van or bus vehicle manufacturer which manufacturers HVIP and Low NOx Engine Incentives eligible vehicles and low NOx engines and sells those vehicles and low NOx engines directly to fleets.

c. A truck, bus or equipment manufacturer which has a written agreement with a medium- or heavy-duty vehicle manufacturer and has had a valid business license for the past two years.

d. An engine manufacturer which manufactures engines meeting any tier of the optional low NOx standard or dealer that offers low NOx engines for sale.

For the purposes of HVIP and Low NOx Engine Incentives, a vehicle or low NOx engine dealer is defined as the vendor of the fully assembled and completed vehicle or vendor that sells and installs low NOx engines in existing vehicles, and not the vendor of the vehicle chassis. This definition will impact transactions where a dealer sells a chassis to a truck equipment manufacturer for final manufacture and the truck equipment manufacturer then sells the completed vehicle to the purchaser. In this case, the truck equipment manufacturer rather than the chassis vendor is considered HVIP or Low NOx Engine Incentives dealer.

\(^8\) https://www.arb.ca.gov/msprog/moyer/guidelines/2017gl/2018_onroad_vip_gl_12282017.pdf#page=62
The Grantee will work with vehicle manufacturers to maintain a list of dealerships authorized to receive HVIP and Low NOx Engine Incentives vouchers. Dealer responsibilities include:

a. Becoming familiar with all HVIP and Low NOx Engine Incentives requirements.

b. Participation in dealer training and registration.

c. Providing accurate information to vehicle or low NOx engine purchasers, the Grantee, and CARB.

d. Completing voucher request and voucher redemption forms, with the assistance of the vehicle or low NOx engine purchaser, and in supplying the necessary vehicle or low NOx engine purchase documentation.

e. Providing accurate and complete documentation of the vehicle or low NOx engine purchase to the Grantee.

f. Providing reasonable assistance to CARB or its designee to obtain updated purchaser information, inspect vehicles, and review HVIP and Low NOx Engine Incentives related records during the first three years after vehicle receipt and final payment by the purchasing fleet, whichever is later.

HVIP and Low NOx Engine Incentives are intended to lower the vehicle price for the vehicle or low NOx engine purchaser by the full voucher amount. Vehicle dealers must deduct the full voucher amount from the vehicle or low NOx engine purchase price to be eligible for a voucher. Sales tax for the vehicle or low NOx 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.

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 it submits 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 dealership 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 and Low NOx Engine Incentives voucher – including but not limited to the vehicle Bill of Lading, 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 and Low NOx Engine Incentives requirements or any vehicle(s) purchased with an HVIP or Low NOx Engine Incentives 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, delivery Bill of Lading, and vehicle payment information and related bank records.

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

2. Vehicle and Low NOx Engine Purchaser

The low NOx 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 or Low NOx Engine Incentives voucher, a vehicle or low NOx engine purchaser must:

a. 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 or Low NOx Engine Incentives funding. A truck or bus leasing/rental agency based outside of California is also eligible if the vehicle is leased/rented to an entity that will meet all HVIP and Low NOx Engine Incentives operational, reporting, and other applicable requirements.

b. Vehicle manufacturers and dealers may, upon CARB case-by-case approval, submit voucher applications for no more than two vehicles in any 12 month period. This applies to vehicles the manufacturer produces and for vehicles the dealer makes available for sale. Vehicle manufacturers and dealers will be required to provide CARB additional information including, but not limited to, manufacturing costs and dealer invoice or acquisition costs. If a vehicle manufacturer or dealer chooses to purchase a vehicle they do not produce or sell, then this condition will not apply. Please see Section D(7) for maximum allowable voucher amount.

c. Maintain insurance as required by law. If the purchased vehicle is destroyed or otherwise permanently inoperable due to an accident or for any other reason, the vehicle or low NOx engine purchaser must notify CARB Project Liaison in writing within two weeks after the vehicle becomes inoperable. (See Section D(2) for CARB Project Liaison mailing address.) The written 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.
d. Commit to operate the vehicle 100 percent within 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 be granted permission to accrue up to 25 percent of their mileage each year for the three year reporting period outside of California if requested and approved by CARB in writing prior to the vehicle being deployed out of state. Requests must be made in writing to CARB Project Liaison.

e. Not make or allow any modifications to the vehicle’s emissions control systems, hardware, software calibrations, or hybrid system (Vehicle Code Section 27156).

f. Submit annual activity reports for three years. Activity reports will be provided by CARB for completion by the vehicle or low NOx engine purchaser. CARB reserves the right to bar a fleet which does not provide timely and accurate HVIP and Low NOx Engine Incentives usage surveys/questionnaires as required from future HVIP and Low NOx Engine Incentives participation.

g. Agree to Telematics requirements specified in Section C(1)(k), except vehicles equipped with low NOx engines.

h. Allow CARB, the Grantee, or their designee to verify the vehicle registration with the DMV.

i. Be available for follow-up inspection if requested by the Grantee, CARB, or CARB’s designee.

j. Military vehicles are not subject to sections d, f, g, h above.

The vehicle or low NOx engine purchaser is responsible for ensuring the accuracy of the vehicle, low NOx engine and vehicle or low NOx engine 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 low NOx engine purchasers must keep written records of the vehicle or low NOx engine purchase for vehicles or low NOx engines funded with an HVIP or Low NOx Engine Incentives voucher – including the vehicle invoice, proof of purchase, and DMV records – for three years after the vehicle or low NOx engine purchase transaction. A vehicle or low NOx engine purchaser must provide CARB (or its designee) with all requested information related to any vehicle or low NOx engine purchased with an HVIP or Low NOx Engine Incentives 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, vehicle payment information and related bank records, and purchaser fleet information. Vehicle or low NOx 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 and Low NOx Engine Incentives. In addition, CARB may pursue other remedies available under the law.

3. Resale of Vehicles

Vehicle or low NOx engine purchasers participating in HVIP and Low NOx Engine Incentives are expected to keep the vehicle and meet all applicable project requirements for a minimum three year period after the vehicle or low NOx 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 or Low NOx Engine Incentives funded vehicle must receive CARB written approval prior to resale. A vehicle or low NOx engine purchased with an HVIP or Low NOx Engine Incentives 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 low NOx engine purchase date (and after CARB provides written approval), the original vehicle or low NOx engine purchaser must inform the new purchaser in writing about the voucher rebate amount and applicable voucher project requirements. The new vehicle or low NOx engine purchaser must agree in writing to meet all applicable HVIP and Low NOx Engine Incentives requirements of original vehicle or low NOx engine purchasers.

If the vehicle is moved out of the State or resold, and the new vehicle or low NOx engine purchaser does not agree in writing to meet all applicable HVIP and Low NOx Engine Incentives requirements of the original vehicle or low NOx engine purchasers, the vehicle or low NOx 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): (Original Voucher Amount ÷ 36 Months) x (36 – months since vehicle or low NOx engine purchase or lease date).

The original vehicle or low NOx 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 low NOx engine purchaser must notify CARB Project Liaison that the vehicle has been resold and provide the mailing address, phone number and email (if any) of the purchaser as well as the vehicle resale price. Within thirty calendar days after the vehicle resale, the entity buying the vehicle from the original vehicle or low NOx engine purchaser must also provide CARB Project Liaison with: 1) their mailing address, phone number and email (if any); 2) a copy of the new DMV title documenting the vehicle resale; 3) a written commitment to meet the terms and conditions identified on the original voucher; and 4) 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.
4. Vehicle Lease or Rental Agencies

For the purposes of HVIP and Low NOx Engine Incentives, any fleet that enters into a rental or lease agreement of three or more years with a vehicle leasing or rental agency within six months of when HVIP or Low NOx Engine Incentives voucher is redeemed shall be considered the vehicle or low NOx engine purchaser. Conversely, any vehicle lease or rental entity that receives an HVIP or Low NOx Engine Incentives funded vehicle or low NOx engine but does not enter into such an agreement within six months of voucher redemption/vehicle or low NOx engine purchase shall be considered the vehicle or low NOx engine purchaser. Any vehicle lease or rental entity that leases or rents a vehicle or low NOx engine purchased with an HVIP or Low NOx Engine Incentives voucher within three years of HVIP or Low NOx Engine Incentives voucher redemption date must disclose the voucher amount and voucher terms to the vehicle renter or lessee. The lease or rental agreement must include all commitments needed from the lessee or renter to ensure that 1) the vehicle operates 100 percent in California as required by the voucher redemption form and 2) all required annual activity reports will be submitted to CARB.

CARB or its designee reserve the right to review lease or rental agreements to confirm appropriate disclosures are made regarding HVIP or Low NOx Engine Incentives voucher amount received and vehicle activity and reporting requirements. Vehicle or low NOx engine purchasers must provide CARB (or its designee) all requested information related to any vehicle or low NOx engine purchased with an HVIP or Low NOx Engine Incentives voucher (including lease or rental agreements) within ten days of CARB’s written request for such information. The vehicle or low NOx engine purchaser (i.e. the lessee for lease agreements of three or more years as described above) is responsible for ensuring annual activity reports are accurate and are submitted as required. An HVIP or Low NOx Engine Incentives voucher can be provided at time of vehicle or low NOx engine purchase only, and is not provided at the time a vehicle is leased or rented.

5. 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.

6. School Buses

a. 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.

b. School Buses Eligible for All-Electric Conversions

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

F. 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, dealerships and CARB to safeguard HVIP and Low NOx Engine Incentives funds from misuse as it implements HVIP. Vehicle dealers and purchasers participating in HVIP and Low NOx Engine Incentives must provide CARB or its designee and the Grantee access to all requested files and relevant information related to vehicle or low NOx engine purchases involving an HVIP or Low NOx Engine Incentives voucher.

CARB holds the overarching responsibility for HVIP and Low NOx Engine Incentives fund oversight and project accountability and has final authority and sole discretion over all aspects of HVIP and Low NOx Engine Incentives, including applicant and vehicle and low NOx engine eligibility, and all program requirements. As such, CARB is responsible for monitoring and reviewing the Grantee’s implementation of HVIP and Low NOx Engine Incentives. 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 and Low NOx Engine Incentives. 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 and Low NOx Engine Incentives oversight are as follows:

1. CARB has primary oversight responsibility for HVIP and Low NOx Engine Incentives 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 and Low NOx Engine Incentives implemented through 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 and Low NOx Engine Incentives for the life of the project grant.
2. If the Grantee detects any potentially fraudulent activity by a vehicle dealer or purchaser, they shall notify CARB Project Liaison as soon as possible and work with CARB to determine an appropriate course of action.

3. CARB staff or its designees have primary responsibility for conducting project reviews and/or fiscal audits of HVIP and Low NOx Engine Incentives administration and implementation.

4. 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 and Low NOx Engine Incentives 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.

G. PROJECT NON-PERFORMANCE

CARB or its designee has the authority to recoup HVIP and Low NOx Engine Incentives funds which were received based upon misinformation or fraud, or for which the Grantee or its subcontractors, a dealership, manufacturer, or vehicle or low NOx 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 and Low NOx Engine Incentives due to non-compliance with project requirements.

H. DEFINITIONS

“CARB-Certified” for the purposes of HVIP and Low NOx Engine Incentives means a vehicle that has been certified and issued an Executive Order by CARB in accordance with the provisions of California Interim Certification Procedures for 2004 and Subsequent Model Hybrid-Electric and Other Hybrid Vehicles, in the Urban Bus and Heavy-Duty Vehicle Classes, amended by CARB on October 21, 2014, or subsequent revisions (http://www.arb.ca.gov/regact/2013/hdghg2013/hdghgfohybridinterimcp.pdf).

“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 and Low NOx Engine Incentives Grantee.

“Aerial boom vehicle” for the purposes of the program means an on-road vehicle equipped with a fully integrated, mounted bucket at the end of an on-board hydraulic system used to raise personnel to complete work at an elevated height.

“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.

“Dealer” for the purposes of HVIP and Low NOx Engine Incentives means the vendor of the fully assembled and completed vehicle (not the vendor of the vehicle chassis) or vendor that sells and installs low NOx engines in existing vehicles and includes dealerships, manufacturers, and TEMs that sell new medium- or heavy-duty vehicles directly to a vehicle purchaser.

“Disadvantaged Communities” for the purposes of this program are identified by the California Environmental Protection Agency (CalEPA).9 To determine whether a project qualifies as located in a disadvantaged community, the Grantee must use the criteria in Assembly Bill 1550.10

“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.

“Fast charge compatible” for the purposes of the program means battery-electric fast-charge compatible vehicles must: 1) be equipped to utilize direct current Level 3 fast chargers; 2) be capable of charging from 15 percent state-of-charge to 85 percent state-of-charge within one-half hour (.5hr); and 3) demonstrate that typical operating time is at least 8x typical charging time (i.e. a vehicle must be capable of operating for 8 minutes for each minute of charge time).

“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.

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

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

10 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
“**Grantee**” for the purposes of this program means the entity selected by CARB via competitive solicitation to administer HVIP and Low NOx Engine Incentives. 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 and Low NOx Engine Incentives subcontractors meet all project requirements.

“**Gross vehicle weight rating (GVWR)**” for the purposes of this program means the vehicle weight described on the 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.

“**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, but may also have off-vehicle charge capability.

“**Low NOx Engines**” for the purposes of this program means any engine meeting the Optional Low NOx emission standards approved by CARB.

“**Incremental cost**” for the purposes of this program for new hybrid or zero-emission 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 Low NOx Engine Incentives, the incremental cost means the difference in cost between a baseline vehicle/engine and vehicle/engine certified to the low NOx standard utilizing the same fuel type.

This cost is determined on a case-by-case basis based upon a manufacturer’s HVIP and Low NOx Engine Incentives eligibility application submittal, HVIP and Low NOx Engine Incentives voucher redemption data, discussions with fleets and other stakeholders, and other relevant data and information. The additional incentive of up to $10,000 for a fleet’s first three vouchers is not included in incremental cost calculations.

“**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.

“**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 and Low NOx Engine Incentives for the sole purposes of funding additional vehicles or low NOx engines or increasing the vehicle or low NOx engine voucher amount.

“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 transit agency, and which is not an urban bus.

“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 and Low NOx Engine Incentives, 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
As more engines that use renewable fuels other than renewable natural gas 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 Low NOx 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.


“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 to aerial boom.

“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.
I. LIST OF ACRONYMS

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC</td>
<td>Alternating Current</td>
</tr>
<tr>
<td>AQIP</td>
<td>Air Quality Improvement Program</td>
</tr>
<tr>
<td>CARB</td>
<td>California Air Resources Board</td>
</tr>
<tr>
<td>CA #</td>
<td>California Carrier Identification Number</td>
</tr>
<tr>
<td>CCR</td>
<td>California Code of Regulations</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal regulations</td>
</tr>
<tr>
<td>CMAQ</td>
<td>Congestion Mitigation and Air Quality</td>
</tr>
<tr>
<td>DC</td>
<td>Disadvantaged Community</td>
</tr>
<tr>
<td>DMV</td>
<td>Department of Motor Vehicles</td>
</tr>
<tr>
<td>DOC</td>
<td>Diesel Oxidation Catalyst</td>
</tr>
<tr>
<td>DPF</td>
<td>Diesel Particulate Filter</td>
</tr>
<tr>
<td>ePTO</td>
<td>Electric Power Take-Off</td>
</tr>
<tr>
<td>FTA</td>
<td>Federal Transportation Authority</td>
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<tr>
<td>FY</td>
<td>Fiscal Year</td>
</tr>
<tr>
<td>GVWR</td>
<td>Gross Vehicle Weight Rating</td>
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<tr>
<td>HSC</td>
<td>Health and Safety Code</td>
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<tr>
<td>HVIP</td>
<td>Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project</td>
</tr>
<tr>
<td>JPA</td>
<td>Joint Powers Authority</td>
</tr>
<tr>
<td>LESBP</td>
<td>Lower-Emission School Bus Program</td>
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<tr>
<td>MY</td>
<td>Model Year</td>
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<tr>
<td>NOx</td>
<td>Oxides of Nitrogen</td>
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<tr>
<td>OBD</td>
<td>On-Board Diagnostics</td>
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<tr>
<td>SCR</td>
<td>Selective Catalytic Reduction</td>
</tr>
<tr>
<td>TEM</td>
<td>Truck Equipment Manufacturer</td>
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<tr>
<td>USC</td>
<td>United States Code</td>
</tr>
<tr>
<td>VIN</td>
<td>Vehicle Identification Number</td>
</tr>
<tr>
<td>VIP</td>
<td>Voucher Incentive Program</td>
</tr>
<tr>
<td>ZEV</td>
<td>Zero-Emission Vehicle</td>
</tr>
</tbody>
</table>
APPENDIX A: HVIP and Low NOx Engine Incentives Vehicle Eligibility List

The current list of HVIP and Low NOx Engine Incentives eligible vehicles can be found on the California HVIP website at:

https://www.californiahvip.org
APPENDIX B: Vehicle Eligibility Applications

Vehicle Eligibility Application Submittal Instructions for Original Vehicle Manufacturers

Applications for original vehicle manufacturers to have hybrid or zero-emission trucks and buses approved by the California Air Resources Board (CARB) as eligible for HVIP and Low NOx Engine Incentives vouchers should be mailed to:

Via US Postal Service must be mailed to the following address:

Patrick Chen
Air Resources Board
Mobile Source Control Division
Post Office Box 2815
Sacramento, California 95812

In person or via another delivery service may be delivered to the following address:

Patrick Chen Air Resources Board
Mobile Source Control Division
1001 I Street
Sacramento, California 95814

Please notify Patrick Chen by e-mail at Patrick.Chen@arb.ca.gov when the application is mailed. There is no deadline for application submittal. Vehicle eligibility applications will be evaluated in the order hardcopies are received.

Questions regarding submittal of the vehicle eligibility application or application requirements should be directed to Patrick Chen at the above e-mail address or at (916) 327-2953.
APPENDIX B1: NEW HYBRID VEHICLE/HYBRID VEHICLE CONVERSION ELIGIBILITY APPLICATION

This is an application for new hybrid vehicle/hybrid vehicle conversion manufacturers to have a hybrid vehicle 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.

The new hybrid vehicles/hybrid vehicle conversion vehicles identified in Appendix A of the Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP) and Low NOx Engine Incentives implemented through HVIP Implementation Manual are eligible for HVIP. Other hybrid vehicle make/models must fall into one of the following five categories to apply for HVIP-eligibility. This application is for (check box below that applies):

- A hybrid vehicle which is a physically equivalent version of an existing CARB-certified or HVIP-eligible vehicle (and may have a newer engine and/or vehicle model year). This hybrid vehicle utilizes the same make/model engine, hybrid system, emission control strategies, and other key components as the existing CARB-certified or HVIP-eligible vehicle. (Complete Parts I, II, III, and VI only) Please also include copies of CARB Executive Orders for the engine used in the existing HVIP-eligible vehicle and the vehicle requested to become HVIP-eligible.

- A hybrid vehicle of greater than 14,000 lbs gross vehicle weight rating (GVWR) which is certified by the California Air Resources Board (CARB). (Complete Parts I, II, III and VI only)

- A hybrid vehicle over 14,000 lbs GVWR which falls in none of the categories identified above (Complete all parts of this application)

- A hybrid vehicle from 8,501 to 14,000 lbs GVWR which is CARB-certified to be sold in California. (Complete Parts I, II, III, and VI only)

- A hybrid vehicle conversion that has obtained a CARB aftermarket parts certification and free from additional conditions (Complete all parts of this application).

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 2015 MY vehicle with a 2014 MY engine and one with a 2015 MY engine require separate applications) and for each distinct GVWR range identified in Table 7 or Table 10 of the Implementation Manual (i.e. separate applications are required for a 14,001 to 19,400 lbs GVWR vehicle and a 19,501 to 26,000 lbs GVWR vehicle). 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 hybrid vehicle and its baseline (non-hybrid) equivalent in Tables B-1 and B1-2, 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>
<thead>
<tr>
<th>Vehicle MY</th>
<th>Engine MY</th>
<th>Hybrid Vehicle Description</th>
<th>Gross Vehicle Weight Range</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Vehicle MY</th>
<th>Engine MY</th>
<th>Equivalent Non-Hybrid Vehicle Description</th>
<th>Gross Vehicle Weight Range</th>
</tr>
</thead>
</table>

What is the typical California pre-tax cost of the hybrid vehicle (identified in Table B1-1) with normal dealer profit? $________________

What is the typical California pre-tax cost of this equivalent baseline vehicle (identified in Table B1-2) with normal dealer profit? $________________
Potential Voucher Enhancements (hybrid vehicle conversions not eligible, please check Yes or No)

a. Manufacturer requests approval of exportable power option
   (per Section D(5)(f) of the and Low NOx Engine Incentives implemented through HVIP Implementation Manual). □ Yes □ No

b. Manufacturer requests approval of extended warranty option
   (per Section D(5)(g) of the and Low NOx Engine Incentives implemented through HVIP Implementation Manual). □ Yes □ No

Part III: Self-Certification of Hybrid Vehicle and Engine 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.

☐ This vehicle utilizes a CARB-certified engine.

   Engine Family: ________________________
   Engine Model Year: ______
   CARB Executive Order Number: ____________________________

   Engine type (check one): ___ Light-heavy duty engine
   ___ Medium-heavy duty engine
   ___ Heavy-heavy duty engine
   ___ Other (please describe): ____________________________

☐ The vehicle draws propulsion energy from both of the following on-vehicle sources of stored energy: 1) consumable fuel, and 2) a rechargeable energy storage system.

☐ If the vehicle is a new hybrid vehicle (identified in Table B1-1), the vehicle must achieve at least a 30 percent fuel economy benefit relative to its equivalent baseline vehicle (identified in Table B1-2) as determined in accordance with the requirements of Internal Revenue Bulletin 2007-23, City Fuel Economy (www.irs.gov/irb/2007-23_IRB/ar08.html) or other CARB approved procedure. CARB suggests that manufacturers follow the procedure outlined in ITR once final approval of the regulation occurs to determine the 30 percent fuel economy benefit relative to the equivalent baseline vehicle.

☐ If the vehicle is a hybrid vehicle conversion (identified in Table B1-1), the vehicle must achieve at least a 20 percent fuel economy benefit relative to its equivalent baseline vehicle (identified in Table B1-2) as determined in accordance with the requirements of Internal Revenue Bulletin 2007-23, City Fuel Economy (www.irs.gov/irb/2007-23_IRB/ar08.html) or other CARB approved procedure. CARB suggests that manufacturers follow the procedure outlined in ITR once final approval of the regulation occurs to determine the 20 percent fuel economy benefit relative to the equivalent baseline vehicle.

☐ 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.
The vehicle meets HVIP minimum 3-year warranty requirements, as described in Section C(1)(a) of HVIP and Low NOx Engine Incentives implemented through HVIP Implementation Manual.

The vehicle manufacturer agrees to the telematics requirement as stated in Section C(1)(k) of HVIP and Low NOx Engine Incentives implemented through HVIP Implementation Manual.

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 hybrid vehicle operation does not change the engine’s certified regeneration cycles/events for emission control devices such as filters.

The emission control sensors or signals to or from the engine control module haven’t been modified.

There is at least one service provider for the hybrid vehicle in California. Please provide name and city of primary service provider: __________________________

This vehicle’s electric drive or software calibrations shall be installed or modified at a Truck Equipment or Final Stage Manufacturer (TEM). If answer is “yes”, please indicate:

<table>
<thead>
<tr>
<th>Truck Equipment Manufacturer Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Name and Title:</td>
</tr>
<tr>
<td>Street Address:</td>
</tr>
<tr>
<td>State:</td>
</tr>
<tr>
<td>Zip Code:</td>
</tr>
<tr>
<td>Phone: ( )</td>
</tr>
<tr>
<td>E-mail:</td>
</tr>
</tbody>
</table>

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

- 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.
- For new hybrid vehicles over 14,000 GVWR, provide information that the vehicle is a CARB certified hybrid. If the vehicle is not CARB certified, then 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 data resulting from in-use or chassis dynamometer testing must demonstrate no increase in NOx emissions compared to an equivalent baseline vehicle.
- If requesting HVIP approval of exportable power option, provide manufacturer’s vehicle marketing flyer, including vehicle and exportable power specifications and justification for export power usage in proposed vehicle vocation.
- Minimum warranty provisions.
- After sales service provisions.
- MSRP price sheets.
• If requesting HVIP approval of extended warranty option, provide copy of warranty and originally signed letter on manufacturer letterhead committing to meet, at a minimum, warranty requirements identified in HVIP and Low NOx Engine Incentives implemented through HVIP Implementation Manual Section D(5)(g).
• For plug-in hybrid vehicles only, provide proof of compliance with the all-electric range requirements identified in Section C(2)(j) of HVIP and Low NOx Engine Incentives implemented through HVIP Implementation Manual.
• Briefly describe what information is provided to hybrid vehicle dealers/purchasers regarding proper disposal of the hybrid vehicle battery and how this information is conveyed.

Part V: Minimum Requirements for Emissions Testing
New hybrid and hybrid vehicle conversion manufacturers unwilling to pursue full vehicle certification shall conduct in-use (Portable Emissions Measurement System (PEMS) or chassis dynamometer emissions testing to ensure the hybrid vehicle does not result in increased NOx emissions compared to the equivalent baseline (non-hybrid) vehicle. The emission testing of a hybrid vehicle and the comparable baseline vehicle following the same emission test method is referred to as A to B testing, and will be required using PEMS or dynamometer testing. Vehicles will be required to present a PEMS or chassis dynamometer testing plan that identifies duty cycle, testing parameters, and third-party or manufacture testing. CARB will review and approve the testing plan. Once testing is complete, the vehicle manufacture shall submit all test data along with a completed HVIP application to CARB project liaison. Before HVIP eligibility is granted, CARB will review test data and will verify that no increase in NOx occurred and all HVIP requirements have been satisfied. For hybrid vehicles, achieving zero-emission range, emission testing must occur while the engine is running.

A. Portable Emissions Measurement System (PEMS) Testing
Manufacturers wishing to use PEMS testing for HVIP eligibility must propose a PEMS testing protocol to CARB for approval. The A to B emission testing of a hybrid vehicle and the comparable non-hybrid vehicle (also known as the baseline vehicle) following the same emission test method will be required. For the purposes of HVIP eligibility, the use of PEMS measurement instrumentation is an option in On-Road testing in lieu of Chassis Dynamometer screening for new hybrid and hybrid vehicle conversion manufacturers to demonstrate that vehicles will not increase NOx emissions compared to a comparable non-hybrid baseline. If a manufacturer would like to pursue Chassis Dynamometer A to B emission testing screening, please refer to Section 1 of the most recent amended version of the CALIFORNIA INTERIM CERTIFICATION PROCEDURES FOR 2004 AND SUBSEQUENT MODEL HYBRID-ELECTRIC AND OTHER HYBRID VEHICLES, IN THE URBAN BUS AND HEAVY-DUTY VEHICLE CLASSES document. Only testing of NOx emissions are required.
The following test requirements will need to be addressed in the proposed testing protocol:
1. The manufacturer must determine, using good engineering judgement, the two defined routes for the two drive cycles (Urban Drive Cycle and Rural/Intracity Drive Cycle).
   Each drive cycle will require two runs of the hybrid vehicle and two runs of the baseline
vehicle. The first test will require the hybrid and baseline vehicles to be fully loaded, and the second test will require the hybrid and baseline vehicles to be partially loaded as defined below. In total, four hybrid vehicle test runs and four baseline vehicle test runs per HVIP eligibility application will be required. All testing must occur on asphalt or concrete.

a. **Urban Drive Cycle**: The Urban Drive Cycle represents activity of vehicles with lower vehicle miles traveled (VMT) and average speed with significant stop and start activities.
   i. Speeds not to exceed 35 miles per hour (mph).
   ii. At a minimum, 20 stops with idling time of 5 minutes representing deliveries. If hybrid automatically turns off the engine during stop time, then allow for the engine to stop. Allow baseline engine to remain idling (unless equipped with idle shutdown timer).
   iii. At a minimum, 15 stops representing stop signs, traffic lights and traffic. If hybrid automatically turns off the engine during stop time, then allow for the engine to stop. Allow baseline engine to remain idling (unless equipped with idle shutdown timer).

b. **Rural/Intracity Drive Cycle**: Rural/Intracity Drive Cycle represents activity of vehicles with high VMT with higher average speed marked by a combination of urban and highway traffic.
   i. Vehicles must travel at 55 mph (±5 mph) for no less than 20 minutes.
   ii. At a minimum, 10 stops with idling time of 5 minutes representing deliveries. If hybrid automatically turns off the engine during stop time, then allow for the engine to stop. Allow baseline engine to remain idling (unless equipped with idle shutdown timer).
   iii. At a minimum, 7 stops representing stop signs, traffic lights and traffic. If hybrid automatically turns off the engine during stop time, then allow for the engine to stop. Allow baseline engine to remain idling (unless equipped with idle shutdown timer).

2. Both test vehicles (hybrid and baseline) must accrue at least two hours of engine operation per drive cycle including vehicles with zero-emission range.

3. Both test vehicles (hybrid and baseline) must be fully loaded (100 percent of payload) for each drive cycle. After both drive cycles have been completed with the fully loaded vehicles, then both test vehicles (hybrid and baseline) must complete each drive cycle partially loaded (50 percent of payload).

4. The hybrid and baseline vehicles must follow the same pre-determined routes. A side-by-side (lead-following) comparison is preferable; thus, the same weather conditions will be observed for both vehicles. If a manufacturer cannot perform side-by-side testing, the manufacturer may present to CARB a justification explaining why side-by-side testing cannot be accomplished.
5. The PEMS must be properly calibrated, used and maintained, as required by 40 CFR Part 1065 Subpart J, and as recommended by the PEMS manufacturer.

6. In order to ensure test repeatability, consistency of results and data quality, weather conditions must be recorded (e.g., weather data collection, variation in weather conditions between tests and between test segments, etc.). The ambient temperature levels encountered by the test vehicles shall be no less than 40 °F and no greater than 100 °F, and shall change no more than 30 °F during a test. Ambient temperatures shall be recorded at the beginning and end of the test period. Testing can be conducted at any humidity level; however, an optimal range is between 35 percent and 75 percent relative humidity. Testing shall occur when wind speeds are at or below 12 mph, with gusts no greater than 15 mph.

The data from all four test run pairs (hybrid and baseline vehicles) must be submitted to CARB. CARB will evaluate all four test runs. However, if one of the four test run pairs demonstrated that the hybrid vehicle produced more NOx over the baseline test vehicle, CARB will evaluate three of the four test run pairs and disregard the pair containing the hybrid that produced excessive NOx compared to the baseline vehicle. In order for the hybrid vehicle to be HVIP eligible, no increase of NOx may occur in three of the four test run pairs, and the vehicle must meet all other HVIP requirements as stated within the Implementation Manual.

At any time, CARB has sole discretion to modify these requirements.

**B. Chassis Dynamometer Testing**

Manufacturers that choose chassis dynamometer testing may perform A to B testing using Section 1 of the most recent amended version of the *CALIFORNIA INTERIM CERTIFICATION PROCEDURES FOR 2004 AND SUBSEQUENT MODEL HYBRID-ELECTRIC AND OTHER HYBRID VEHICLES, IN THE URBAN BUS AND HEAVY-DUTY VEHICLE CLASSES* document or other CARB approved test procedure. Only testing of NOx emissions are required. Please refer to the following CARB website, Heavy-Duty Hybrid Electric Vehicle Certification Procedures for additional information (www.arb.ca.gov/msprog/onroadhd/hdhev/hdhevtesting/hdhevtesting.htm).

For A to B testing, manufacturers may elect to use the dynamometer testing performed for aftermarket parts certification as part of the test for hybrid vehicle conversions. The conventional vehicle must then be tested using the same drive cycles and test procedure used during certification.
### Part VI: Applicant Signature
I certify under penalty of perjury that all information provided in this application and any attachments are true and correct.

<table>
<thead>
<tr>
<th>Printed Name of Responsible Party:</th>
<th>Title:</th>
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<tbody>
<tr>
<td>Signature of Responsible Party:</td>
<td>Date:</td>
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<td>City:</td>
<td>State:</td>
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</tbody>
</table>
APPENDIX B2: NEW ZERO-EMISSION VEHICLE/ZERO-EMISSION 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, submitted to CARB, and vehicle must receive approval 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

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<tbody>
<tr>
<td>1. Manufacturer Name:</td>
<td></td>
</tr>
<tr>
<td>2. Staff Contact Name and Title:</td>
<td></td>
</tr>
<tr>
<td>3. Business Mailing Address and Contact Information</td>
<td></td>
</tr>
<tr>
<td>Street:</td>
<td></td>
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<tr>
<td>City:</td>
<td>State:</td>
</tr>
<tr>
<td>Phone: ( )</td>
<td>E-mail:</td>
</tr>
</tbody>
</table>

Please identify the zero-emission vehicle and its baseline (gasoline or diesel-powered)
equivalent in Tables B2-1 and B2-2, 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 B2-1: Zero-Emission Vehicle Information

<table>
<thead>
<tr>
<th>Vehicle MY</th>
<th>Vehicle Make and Model</th>
<th>Gross Vehicle Weight Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(vehicle type, vehicle model, drive configuration (4 x 2 or 4 x 4), and frontal area)</td>
<td></td>
</tr>
</tbody>
</table>

Table B2-2: Baseline Vehicle Information

<table>
<thead>
<tr>
<th>Vehicle MY</th>
<th>Vehicle Make and Model</th>
<th>Gross Vehicle Weight Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(vehicle type, vehicle model, drive configuration (4 x 2 or 4 x 4), and frontal area)</td>
<td></td>
</tr>
</tbody>
</table>

What is the typical California pre-tax cost of the zero-emission vehicle (identified in Table B2-1) with normal dealer profit? $______________
What is the typical California pre-tax cost of this equivalent baseline vehicle (identified in Table B2-2 with normal dealer profit) $________________

Potential Voucher Enhancements (Please check Yes or No)

a. Manufacturer requests approval of exportable power option (per Section D(5)(f) of HVIP and Low NOx Engine Incentives implemented through HVIP Implementation Manual). ☐Yes ☐No

b. Manufacturer requests approval of extended warranty option (per Section D(5)(g) of HVIP and Low NOx Engine Incentives implemented through HVIP Implementation Manual). ☐Yes ☐No

c. Manufacturer requests vehicle be identified as fast charge compatible as defined in HVIP and Low NOx Engine Incentives implemented through HVIP Implementation Manual). ☐Yes ☐No

d. Manufacturer requests approval as equipped with inductive charging technology (per Section D(5)(e) of HVIP and Low NOx Engine Incentives implemented through HVIP Implementation Manual). ☐Yes ☐No

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 B2-1. 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 and Low NOx Engine Incentives implemented through 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

---

11 For more information, go to: http://www.arb.ca.gov/msprog/cihd/approvals/approvals.php.
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 B2-1 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 B2-1.

- 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\(^{12}\)
- If requesting HVIP approval of exportable power option, 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 extended warranty option, provide copy of warranty and originally signed letter on manufacturer letterhead committing to meet, at a minimum, warranty requirements identified in HVIP and Low NOx Engine Incentives implemented through HVIP Implementation Manual Section D(5)(g)
- If requesting vehicle be approved as a fast-charge compatible vehicle for the purposes of HVIP, provide documentation that vehicle meets minimum requirements identified in Section D(5)(d) of HVIP and Low NOx Engine Incentives implemented through HVIP Implementation Manual
- If requesting that the vehicle be approved as equipped with inductive charging technology, provide documentation that vehicle meets minimum requirements identified in Section D(5)(e) of HVIP and Low NOx Engine Incentives implemented through HVIP Implementation Manual

**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 C(1)(k) of HVIP Implementation Manual.

<table>
<thead>
<tr>
<th>Printed Name of Responsible Party:</th>
<th>Title:</th>
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<tbody>
<tr>
<td>Signature of Responsible Party:</td>
<td>Date:</td>
</tr>
<tr>
<td>City:</td>
<td>State:</td>
</tr>
</tbody>
</table>

\(^{12}\) For more information, go to: [http://www.arb.ca.gov/msprog/cihd/approvals/approvals.php](http://www.arb.ca.gov/msprog/cihd/approvals/approvals.php).

B2-3
APPENDIX B3: AERIAL BOOM 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 and Contact Information
   Street:
   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 B3-1 and B3-2, respectively.

Table B3-1: Aerial Boom Vehicle Information

<table>
<thead>
<tr>
<th>Vehicle MY</th>
<th>(Vehicle Make and Model, engine model and MY)</th>
<th>Boom Maximum Working Height (ft)</th>
<th>Gross Vehicle Weight Range (lbs)*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

* including ePTO system.

Table B3-2: ePTO Information

<table>
<thead>
<tr>
<th>Battery Manufacturer</th>
<th>Battery Chemistry</th>
<th>Battery Capacity (kWh)</th>
<th>Battery Manufacturer Recommended Minimum State-of-Charge</th>
<th>ePTO Make and Model</th>
<th>Regenerative Braking? (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

What is the typical California pre-tax cost with normal dealer profit of the truck identified in Table B3-1 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 B3-1 when equipped with the ePTO system identified in Table B3-2?

$________________

Make and model of vehicle telematics system: ______________________________
Potential Voucher Enhancements (Please check Yes or No)

a. Manufacturer requests approval of exportable power option (per Section D(5)(f) of HVIP and Low NOx Engine Incentives implemented through HVIP Implementation Manual). □Yes □No

b. Manufacturer requests approval of extended warranty option (per Section D(5)(g) of HVIP and Low NOx Engine Incentives implemented through HVIP Implementation Manual). □Yes □No

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 HVIP and Low NOx Engine Incentives implemented through HVIP Implementation Manual.
- □ The vehicle manufacturer agrees to the telematics requirement as stated in Sections C(1)(k) and C(6)(h) of HVIP and Low NOx Engine Incentives implemented through 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 HVIP, including those identified in this application and HVIP and Low NOx Engine Incentives implemented through 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 requesting HVIP approval of exportable power option, manufacturer’s vehicle marketing flyer, including vehicle and exportable power specifications and justification for export power usage in proposed vehicle vocation.
- 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 hybrid 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 ePTO demonstration consists of three steps:

1. 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:
   a. 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.
   b. At least five minutes of air conditioning, running at maximum capacity with the cab windows closed.

2. 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 CARB Project Liaison on a case-by-case basis, and must reflect a suburban driving environment (i.e. moderate speeds and number of stops).

3. The applicant provides an in-person demonstration for CARB Project Liaison or his designee that the vehicle completes the approved duty cycle without need for the engine to recharge the battery (i.e. the battery manufacturer recommended minimum state-of-charge is not reached). The demonstration must be conducted within a 100 mile radius of CARB headquarters in Sacramento, California unless an alternate location is preapproved by CARB Project Liaison. CARB Project Liaison may forgo in-person duty cycle verification on a case-by-case basis for applicants for which ePTO duty cycles have previously been demonstrated in person. In these cases, the applicant would detail and confirm in writing completion of the approved duty cycle.

4. CARB provides the applicant with a vehicle EO, indicating the vehicle make/model has been HVIP-approved.
**Part VI: Applicant Signature**

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

<table>
<thead>
<tr>
<th>Printed Name of Responsible Party:</th>
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<tbody>
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<tr>
<td>City:</td>
<td>State:</td>
</tr>
</tbody>
</table>
APPENDIX B4: ELIGIBILITY APPLICATION FOR NEW VEHICLE EQUIPPED WITH LOW NOx ENGINE

This is an eligibility application for new vehicles equipped with low NOx engines. 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 a Low NOx engine and its baseline equivalent in Tables B4-1 and B4-2, 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 B4-1: New Vehicle Information with Low NOx Engine

<table>
<thead>
<tr>
<th>Vehicle Model Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Make/Model</td>
<td></td>
</tr>
<tr>
<td>Vehicle Gross Vehicle Weight Range</td>
<td></td>
</tr>
<tr>
<td>Engine Model Year</td>
<td></td>
</tr>
<tr>
<td>Engine Make/Model</td>
<td></td>
</tr>
<tr>
<td>Executive Order Number</td>
<td></td>
</tr>
</tbody>
</table>

Table B4-2: Baseline Vehicle Information

<table>
<thead>
<tr>
<th>Vehicle Model Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Make/Model</td>
<td></td>
</tr>
<tr>
<td>Vehicle Gross Vehicle Weight Range</td>
<td></td>
</tr>
<tr>
<td>Engine Model Year</td>
<td></td>
</tr>
<tr>
<td>Engine Make/Model</td>
<td></td>
</tr>
<tr>
<td>Executive Order Number</td>
<td></td>
</tr>
</tbody>
</table>

What is the typical California pre-tax cost of the vehicle equipped with a Low NOx engine (identified in Table B4-1) with normal dealer profit? $________________

What is the typical California pre-tax cost of this equivalent baseline vehicle (conventional natural gas engine identified in Table B4-2) 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 B4-1. CARB reserves the right to request additional information to complete the vehicle eligibility evaluation.

- CARB low NOx 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 B4-1 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.

<table>
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<tbody>
<tr>
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</tr>
<tr>
<td>City:</td>
<td>State:</td>
</tr>
</tbody>
</table>
APPENDIX B5: ELIGIBILITY APPLICATION FOR LOW NOx ENGINE USED FOR REPOWER

This is an eligibility application for low NOx engines used for repowers. This application must be completed, submitted to CARB, and the low NOx engine must receive approval prior to the low NOx engine being eligible for a voucher.

Do not use this application for a new vehicle equipped with a low NOx engine.

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 Low NOx engine(s) and its baseline (conventional natural gas engine) equivalent in Tables B5-1 and B5-2, respectively. The engine(s) must be of the same make, horsepower and displacement.

Table B5-1: Low NOx Engine Information

<table>
<thead>
<tr>
<th>Engine Model Year</th>
<th>Engine Make/Model</th>
<th>Engine Horsepower</th>
<th>Engine Displacement</th>
<th>Executive Order Number</th>
</tr>
</thead>
</table>

Table B5-2: Baseline Engine Information (Natural Gas)

<table>
<thead>
<tr>
<th>Engine Model Year</th>
<th>Engine Make/Model</th>
<th>Engine Horsepower</th>
<th>Engine Displacement</th>
<th>Executive Order Number</th>
</tr>
</thead>
</table>

What is the typical California pre-tax cost of the low NOx engine (identified in Table B5-1) with normal dealer profit? $________________

What is the typical California pre-tax cost of this equivalent baseline engine (conventional natural gas engine identified in Table B5-2) 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 B5-1. CARB reserves the right to request additional information to complete the vehicle eligibility evaluation.

- CARB low NOx 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 B5-1 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.

<table>
<thead>
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<th>Printed Name of Responsible Party:</th>
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<tbody>
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<td>Date:</td>
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<td>City:</td>
<td>State:</td>
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</table>
APPENDIX C: Vehicles Under Common Ownership

If vehicles are under common ownership, for the purposes of the Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP) and Low NOx Engine Incentives implemented through HVIP this means that they are 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.

The examples provided below are intended to further specify, for the purposes of HVIP and Low NOx Engine Incentives, the definition of common ownership, corporation, or other entity wishing to purchase or lease an HVIP and Low NOx Engine Incentives eligible vehicle or low NOx 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 and Low NOx Engine Incentives Voucher Request and Terms and Conditions Form**

FUNDER + FY YEAR: ________________

DATE RECEIVED: ________________

<table>
<thead>
<tr>
<th>Purchaser Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Contact:</td>
</tr>
<tr>
<td>Company Name:</td>
</tr>
<tr>
<td>Mailing address:</td>
</tr>
<tr>
<td>City:</td>
</tr>
<tr>
<td>Phone:</td>
</tr>
<tr>
<td>Primary E-mail:</td>
</tr>
<tr>
<td>TIN:</td>
</tr>
<tr>
<td>CA# Reason for exemption (if applicable):</td>
</tr>
<tr>
<td>DOT# Reason for exemption (if applicable):</td>
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</table>

<table>
<thead>
<tr>
<th>Vehicle Operator Information</th>
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</thead>
<tbody>
<tr>
<td>Operator:</td>
</tr>
<tr>
<td>Street address:</td>
</tr>
<tr>
<td>City:</td>
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<td>Email:</td>
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<table>
<thead>
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<tbody>
<tr>
<td>Dealer:</td>
</tr>
<tr>
<td>Street address:</td>
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<tr>
<td>City:</td>
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<td>Email:</td>
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<table>
<thead>
<tr>
<th>Vehicle Information</th>
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<tbody>
<tr>
<td>Vehicle Manufacturer:</td>
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<tr>
<td>Engine:</td>
</tr>
<tr>
<td>Engine Family #:</td>
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<tr>
<td>Vehicle Description:</td>
</tr>
<tr>
<td>GVWR:</td>
</tr>
<tr>
<td>Number of Vouchers Requested*:</td>
</tr>
</tbody>
</table>

* **NOTE:** The fleet/operator location and vehicle type MUST be the same. If you are purchasing the same vehicle for the same client, but it is being used at a different fleet location, you must submit a new Voucher Request.*
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) and Low NOx Engine Incentives Implemented through HVIP Implementation Manual, the purchaser/lessee must comply with the requirements below:

1. I have read, understand and agree to all provisions within HVIP and Low NOx Engine Incentives implemented through HVIP Implementation Manual;
2. I agree to register the vehicle in California with the Department of Motor Vehicles (DMV) Military vehicles are not subject to this requirement;
3. I agree to allow CARB, Grantee, or their designee to verify the vehicle registration with the DMV;
4. I agree to maintain vehicle insurance as required by law;
5. I agree to never modify the vehicle’s emission control system, engine, or engine software calibrations;
6. I agree to ensure plug-in vehicles purchased with an HVIP voucher, including plug- in hybrid vehicles, plug-in electric vehicles, and aerial boom 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;
7. I understand that I must be in compliance and remain in compliance with all applicable federal, state, and local air quality rules and regulations;
8. 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, or 2) the vehicle address identified in this form is in a county which borders Arizona, Nevada, Oregon or Mexico. In these two cases only, the vehicle may operate outside of California for up to 25 percent of its mileage if a written request to do so is included with this voucher request form and the request is approved by CARB, Grantee, or their designee. Military vehicles are not subject to this requirement;
9. 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 to sell the vehicle from CARB;
10. I agree to keep written records of the vehicle or low NOx engine 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;
11. For Low NOx Engine Incentives funded with GGRF funds through HVIP, I agree to have a renewable fuel contract using 100% renewable fuel for 3 years or more, providing fuel for new vehicles equipped with low NOx engines or existing vehicles repowered with low NOx engines. The 3 year renewable fuel
contract will cover the vehicle for 3 years once the vehicle is placed into service or the repowered vehicle is placed back into service. The fuel contract will be reviewed by HVIP and Low NOx Engine Incentives Grantee to verify that the above information is included in the contract. I will completed and submit the yearly questionnaire to the Grantee;

12. 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;

13. 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;

14. 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 aggregated vehicle operation within disadvantaged communities and zip codes containing disadvantaged communities. Vehicles equipped with low NOx engines, and military vehicles are exempt from this requirement;

15. I agree to be available for a follow-up inspection by CARB, Grantee or their designee, if requested;

16. The information provided in this application is true and all supporting documentation is true and correct and meet the minimum requirements of HVIP and Low NOx Engine Incentives;

17. I have the legal authority to apply for incentive funding for the purchasing entity described in this agreement;

18. I agree that failure to comply with the terms of this agreement may result in repayment to CARB of voucher funds received; and

19. I understand that CARB reserves all rights and remedies available under the law to enforce the terms of this agreement.

By signing HVIP and Low NOx Engine Incentives 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 or Low NOx Engine Purchaser/Lessee: ____________________________

Signature of Vehicle Purchaser/Lessee: ____________________________ Date: ____________________________

City: ____________________________ State: ____________________________
HVIP and Low NOx Engine Incentives Voucher Request and Terms and Conditions

Form – Dealer Terms and Conditions

Dealer:

1. I have read, understand and agree to all provisions within HVIP and Low NOx Engine Incentives implemented through HVIP Implementation Manual;
2. The vehicle and vehicle order information identified on this form are true and correct;
3. I understand that this HVIP or Low NOx Engine Incentives voucher request is only valid for this specific vehicle or low NOx engine 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 and Low NOx Engine Incentives requirements;
4. I have the legal authority to participate in HVIP or Low NOx Engine Incentives for the Dealer described in this agreement;
5. I understand that CARB reserves all rights and remedies available under the law to enforce the terms of this agreement.

By signing HVIP and Low NOx Engine Incentives 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: _________________________

PLEASE RETURN SIGNED DOCUMENTS TO:
HVIP Voucher Processing c/o Tetra Tech
249 E. Ocean Blvd, Suite 325
Long Beach, CA 90802