

## Combustion Freight and Marine Projects

### Summary of Appendix D-4 Funding Requests

The California Air Resources Board (CARB) is submitting the attached five funding requests (D-4s) covering all potential Eligible Mitigation Actions (EMAs) under California's Combustion Freight and Marine and Zero-Emission Class 8 projects, funding categories specifically identified in the State's Beneficiary Mitigation Plan (Plan). Each D-4 represents one of the following EMAs:

<b>CFM and ZE Class 8 EMAs</b>	<b>Estimated Equipment Amount from Trust</b>	<b>Estimated Admin Amount from Trust</b>	<b>Estimated Total Amount from Trust</b>
<b>EMA 1: Class 8 Freight and Port Drayage Trucks</b>	\$17,151,963.00	\$3,328,884.87	\$20,480,847.87
<b>EMA 3: Freight Switchers</b>	\$35,374,920.00	\$3,385,246.92	\$38,760,166.92
<b>EMA 4: Ferries/Tugs</b>	\$15,293,124.00	\$2,108,373.03	\$17,401,497.03
<b>EMA 6: Class 7 Local Freight Trucks</b>	\$2,575,112.00	\$868,063.40	\$3,443,175.40
<b>EMA 1: ZE Class 8 Freight and Port Drayage Trucks</b>	\$79,604,881.00	\$10,864,438.78	\$90,469,319.78

California's Plan originally allocated \$60 million in vehicle and equipment funding for Combustion Freight and Marine Projects, with up to an additional 15 percent allocation for a reserve that includes administrative costs. California's plan also allows for up to 20 percent of a project category to be moved without CARB Board approval. This D-4 reallocation submission shifts 11.55 percent out of Zero-Emission Class 8 Trucks into Combustion Freight and Marine's EMA 3 for zero-emission Freight Switchers and shifts funds from EMAs 1 and 6 to EMAs 3 and 4. In total, the attached D-4s budget for Combustion Freight and Marine is \$70,395,199 for vehicle and equipment funding and \$9,690,568.22 for administrative costs, for an overall project funding category total of \$80,085,687.22.

Each D-4 is a stand-alone funding request, as required by the Trustee. As stated in CARB's Plan, at least two statewide solicitations, each containing all 4 EMAs, will be released two years apart. Therefore, CARB developed a funding scenario that takes into account the all-electric engine, Tier 4 hybrid engine, compressed natural gas (CNG) engine, and vehicle technology readiness for heavy-duty applications; their current market demand; the cost-effectiveness of each of the four EMAs; the regulatory requirements already in place for each; and funding available through other CARB-implemented programs. The individual D-4s represent the estimates based on that funding scenario.

Developing and implementing the programs for the Combustion Freight and Marine Projects and Zero-Emission Class 8 Freight and Port Drayage Truck is a labor-intensive process, which includes, but is not limited to, conducting a public process, meetings, and outreach; developing solicitation materials; and scoring applications. This results in administrative costs for every potential EMA, regardless of whether or not the EMA is ultimately funded. However, once projects are selected following the solicitations, CARB will amend the D-4s as necessary. For any EMAs that are not selected, CARB will ensure that any unspent administrative costs previously disbursed from the Trust will be returned, and new funding requests for the appropriate EMAs will be submitted.

CARB requests that all five of the attached D-4s be processed simultaneously if possible. This will help us and the third-party administrator in tracking the pending requests and keeping the D-4s for this multiple-EMA project funding category together.

**APPENDIX D-4**  
**Beneficiary Eligible Mitigation Action Certification**

## BENEFICIARY ELIGIBLE MITIGATION ACTION CERTIFICATION

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Beneficiary \_\_\_\_\_

Lead Agency Authorized to Act on Behalf of the Beneficiary \_\_\_\_\_  
(Any authorized person with delegation of such authority to direct the Trustee delivered to the Trustee pursuant to a Delegation of Authority and Certificate of Incumbency)

<b>Action Title:</b>	
<b>Beneficiary's Project ID:</b>	
<b>Funding Request No.</b>	(sequential)
<b>Request Type:</b> (select one or more)	<input type="checkbox"/> Reimbursement <input type="checkbox"/> Advance <input type="checkbox"/> Other (specify): _____
<b>Payment to be made to:</b> (select one or more)	<input type="checkbox"/> Beneficiary <input type="checkbox"/> Other (specify): _____
<b>Funding Request &amp; Direction (Attachment A)</b>	<input type="checkbox"/> Attached to this Certification <input type="checkbox"/> To be Provided Separately

### SUMMARY

<b>Eligible Mitigation Action</b> <input type="checkbox"/> Appendix D-2 item (specify): _____ <b>Action Type</b> <input type="checkbox"/> Item 10 - DERA Option (5.2.12) (specify and attach DERA Proposal): _____
<b>Explanation of how funding request fits into Beneficiary's Mitigation Plan (5.2.1):</b>
<b>Detailed Description of Mitigation Action Item Including Community and Air Quality Benefits (5.2.2):</b>
<b>Estimate of Anticipated NOx Reductions (5.2.3):</b>
<b>Identification of Governmental Entity Responsible for Reviewing and Auditing Expenditures of Eligible Mitigation Action Funds to Ensure Compliance with Applicable Law (5.2.7.1):</b>
<b>Describe how the Beneficiary will make documentation publicly available (5.2.7.2).</b>
<b>Describe any cost share requirement to be placed on each NOx source proposed to be mitigated (5.2.8).</b>
<b>Describe how the Beneficiary complied with subparagraph 4.2.8, related to notice to U.S. Government Agencies (5.2.9).</b>

**If applicable, describe how the mitigation action will mitigate the impacts of NOx emissions on communities that have historically borne a disproportionate share of the adverse impacts of such emissions (5.2.10).**

**ATTACHMENTS**  
**(CHECK BOX IF ATTACHED)**

- ☐ **Attachment A**      **Funding Request and Direction.**
- ☐ **Attachment B**      **Eligible Mitigation Action Management Plan Including Detailed Budget and Implementation and Expenditures Timeline (5.2.4).**
- ☐ **Attachment C**      **Detailed Plan for Reporting on Eligible Mitigation Action Implementation (5.2.11).**
- ☐ **Attachment D**      **Detailed cost estimates from selected or potential vendors for each proposed expenditure exceeding \$25,000 (5.2.6). [Attach only if project involves vendor expenditures exceeding \$25,000.]**
- ☐ **Attachment E**      **DERA Option (5.2.12). [Attach only if using DERA option.]**
- ☐ **Attachment F**      **Attachment specifying amount of requested funding to be debited against each beneficiary's allocation (5.2.13). [Attach only if this is a joint application involving multiple beneficiaries.]**

**CERTIFICATIONS**

**By submitting this application, the Lead Agency makes the following certifications:**

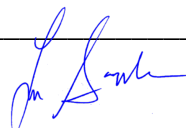
- 1. This application is submitted on behalf of Beneficiary \_\_\_\_\_, and the person executing this certification has authority to make this certification on behalf of the Lead Agency and Beneficiary, pursuant to the Certification for Beneficiary Status filed with the Court.**
- 2. Beneficiary requests and directs that the Trustee make the payments described in this application and Attachment A to this Form.**
- 3. This application contains all information and certifications required by Paragraph 5.2 of the Trust Agreement, and the Trustee may rely on this application, Attachment A, and related certifications in making disbursements of trust funds for the aforementioned Project ID.**
- 4. Any vendors were or will be selected in accordance with a jurisdiction's public contracting law as applicable. (5.2.5)**
- 5. Beneficiary will maintain and make publicly available all documentation submitted in**

support of this funding request and all records supporting all expenditures of eligible mitigation action funds subject to applicable laws governing the publication of confidential business information and personally identifiable information. (5.2.7.2)

DATED: \_\_\_\_\_

\_\_\_\_\_  
[NAME]

[TITLE]



\_\_\_\_\_  
[LEAD AGENCY]

for

\_\_\_\_\_  
[BENEFICIARY]

## BENEFICIARY ELIGIBLE MITIGATION ACTION CERTIFICATION

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Beneficiary: State of California

Lead Agency: California Air Resources Board

Action Title:	Zero-Emission Class 8 Trucks
Beneficiary's Project ID:	SCAQMD – ZE Trucks
Funding Request No.	( <i>sequential</i> ) 2

### **SUMMARY**

#### **Explanation of how funding request fits into Beneficiary's Mitigation Plan (5.2.1):**

California developed a Beneficiary Mitigation Plan (Plan) with valuable public input with a priority to fully mitigate the excess NO<sub>x</sub> caused by Volkswagen's illegal actions while furthering the State's progress toward its zero-emission (ZE) vehicle and climate protection goals. The Plan specifically identifies zero-emission Class 8 freight and port drayage trucks as a project funding category for the State's Environmental Mitigation Trust allocation. This funding request is part of the overall program to replace older trucks with zero-emission trucks, supporting early adoption of these technologies while reducing community health impacts from freight corridors, ports and intermodal facilities, and other areas where Class 8 trucks travel. The Plan originally allocated \$90 million in vehicle funding with up to an additional 15 percent allocation for a reserve that includes administrative costs. This amendment moves \$10,395,119 and proportional administrative funds to EMA 3, Freight Switchers, of the Combustion Freight and Marine category reducing the ZE Class 8 Trucks allocation to \$79,604,881 for project funds and \$10,864,438.78 for administrative costs.

#### **Detailed Description of Mitigation Action Item Including Community and Air Quality Benefits (5.2.2):**

Class 8 freight and port drayage truck owners will be offered first-come, first-served funding opportunities to scrap and replace older internal combustion engine vehicles with zero-emission technologies. California will provide funding to truck owners in at least two separate solicitations. The first solicitation will be \$27 million, subsequent solicitations will be for the remainder of the total allocation for this project category.. The South Coast Air Quality Management District (SCAQMD) will administer the funding statewide with CARB providing program and fiscal oversight. As stated above, administrative costs will be additional and will not exceed 15 percent.

Only trucks with internal combustion engine model years 1992 to 2012 that are compliant with current regulations at the time of application are eligible for funding. California expects to fund about 331 Class 8 trucks, reducing NO<sub>x</sub> emissions, diesel particulate matter, greenhouse gases, and other harmful pollutants. Funding zero-emission Class 8 freight and port drayage trucks will support expansion of zero-emission truck availability to the heaviest weight class. Early commercial deployments tend to have higher capital costs, and this funding is expected to help achieve manufacturing economies of scale, helping to reduce costs while also reducing California's dependence on petroleum use. Based on the number of freight hubs and ports located in disproportionately impacted communities, the number of drayage trucks transiting through those areas, and historical participation data from CARB's Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project, CARB

anticipates at least 50 percent of the vehicle funding will go to projects that benefit disadvantaged or low-income communities.

**Estimate of Anticipated NOx Reductions (5.2.3):**

The funding for these vehicles will result in an estimated 919 tons of NOx emission reductions for about 331 zero-emission trucks over a 10-year period. The reductions resulting from this funding will be direct and surplus to regulatory requirements in place when the Plan was approved by CARB Board.

**Identification of Governmental Entity Responsible for Reviewing and Auditing Expenditures of Eligible Mitigation Action Funds to Ensure compliance with Applicable Law (5.2.7.1):**

California Air Resources Board

**Describe how the Beneficiary will make documentation publically available (5.2.7.2):**

As the lead agency acting on the Beneficiary's (California's) behalf, CARB has established a website for the State's implementation of its Trust allocation: <https://ww2.arb.ca.gov/our-work/programs/volkswagen-environmental-mitigation-trust-california>. The website includes the Beneficiary Mitigation Plan, an opportunity for the public to subscribe to an email list for announcements regarding Plan implementation, meeting schedules and materials, and information to assist funding applicants. CARB will additionally post to the website all approved funding requests, semi-annual reports to the Trustee, and annual reports to the State Legislature. CARB will provide access to all public records upon request unless the law provides an exemption from disclosure.

**Describe any cost share requirement to be placed on each NOx source proposed to be mitigated (5.2.8):**

Trust funds will provide up to \$240,000 for a new zero-emission Class 8 freight or port drayage truck. Actual equipment costs are expected to be higher than will be provided by the Trust, resulting in a significant per-vehicle cost share. As required by the Consent Decree, total Trust funding per vehicle must not exceed 75 percent for non-government owned trucks and 100 percent for government owned trucks.

**Describe how the Beneficiary complied with subparagraph 4.2.8, related to notice to U.S. Government Agencies (5.2.9):**

On February 16, 2018, CARB emailed and mailed notification letters to the government agency contacts listed in subparagraph 4.2.8. Each notification letter included information on fund availability, a description of the administration process, and instructions on accessing more information via CARB's website and subscribing to CARB's email list to remain informed.



**If applicable, describe how the mitigation action will mitigate the impacts of NOx emissions on communities that have historically borne a disproportionate share of the adverse impacts of such emissions (5.2.10).**

Replacing older, high-emitting vehicles with zero-emission vehicles will result in improved ambient air quality and human health in communities located in nonattainment areas, in areas with historical air quality issues, and in disadvantaged or low-income areas that bear a disproportionate share of the air pollution burden. At the same time, this funding will provide benefits to the local economy and the welfare of residents in those communities. California Senate Bill 92 (Committee on Budgets and Fiscal Review, Chapter 26, Statutes of 2017) requires CARB to ensure that 35 percent of the State's Trust allocation benefit disadvantaged or low-income communities. As stated above, at least 50 percent of the vehicle funding is expected to benefit disadvantaged or low-income communities.

## Attachment B

### Eligible Mitigation Action Management Plan Including Detailed Budget and Implementation and Expenditures Timeline

#### Project Management Plan

#### Project Schedule and Milestones

Task	Start Date	Completion Date
Project Planning and Development	October 2017	December 2019
Solicit for Applications (includes outreach to potential applicants)	Fall 2019	Fall 2020
Application Selection for Projects to be Funded	December 2019	September 2020
Quarterly and Semi-Annual Reports	Every 3-6 months or when requesting additional funds, whichever is sooner, through completion of the project	
Generate Contracts for Selected Applicant(s)	December 2019	September 2020
Repeat Solicitation and contracts with selected applicant(s) as needed if unspent direct project funds remain	March 2024	June 2025
Project monitoring, inspections, oversight	December 2019	December 2027
Final Report		May 2028

#### Project Budget

Period of Performance: Oct 2017 - May 2028			
Category	Total Approved Budget	Share of Total Budget to be Funded by the Trust	Cost Share (if applicable)
Equipment	\$79,604,881.00	\$79,604,881.00	
SCAQMD Administrative Costs Program development, outreach, administration	\$7,960,488.10	\$7,960,488.10	
CARB Administrative Costs Program planning, development, oversight	\$2,903,950.68	\$2,903,950.68	
Total	\$90,469,319.78	\$90,469,319.78	

CARB estimates that about 331 zero-emission Class 8 trucks will be funded. The budgeted equipment funds above will provide up to \$240,000 for each vehicle... As required by the Consent Decree, total Trust funding per vehicle will not exceed 75

percent for non-government owned units and 100 percent for government owned units. California's Beneficiary Mitigation Plan specifies funding for this first-come, first-served project funding category will be released in at least two solicitations. The first drawdown of funds for 2019 includes partial administrative costs for program planning, development, outreach, solicitations, and application scoring for the first installment. Equipment costs and additional administrative costs will be requested in subsequent drawdowns.

## Budget Attachment

EMA 1 - Class 8 Freight/Port Drayage Trucks	Est. Number of Units	Est. Equip. Funds from Trust	Estimated Cost Share	Est. Total Equipment Cost
	331	\$79,604,881.00	\$41,007,988.43	\$120,612,869.43

SCAQMD Estimated Administrative Costs							
	2018-June 2024	2024	2025	2026	2027	2028	Total
Estimated costs (including indirect costs for admin, supplies, facilities, outreach, subcontracts, workshops, media, meetings, travel, etc.)	\$2,700,000	\$1,052,098	\$1,052,098	\$1,052,098	\$1,052,098	\$1,052,096.10	\$7,960,488.10
<b>Total SCAQMD Estimated Admin</b>	\$2,700,000	\$1,052,098	\$1,052,098	\$1,052,098	\$1,052,098	\$1,052,096.10	\$7,960,488.10

CARB Estimated Administrative Costs							
	2018-June 2024	2024	2025	2026	2027	2028	Total
Estimated Staffing Costs (including indirect costs for admin, supplies, facilities, travel, etc.)	\$893,084.30	\$402,173.28	\$402,173.28	\$402,173.28	\$402,173.28	\$402,173.28	\$2,903,950.68
<b>Total CARB Estimated Admin</b>	\$893,084.30	\$402,173.28	\$402,173.28	\$402,173.28	\$402,173.28	\$402,173.28	\$2,903,950.68
<b>Total Combined Estimated Admin</b>	\$3,593,084.30	\$1,454,271.28	\$1,454,271.28	\$1,454,271.28	\$1,454,271.28	\$1,454,269.38	\$10,864,438.78
<b>Total Estimated Trust Funds (Equip + Admin)</b>							\$90,469,319.78

## Attachment C

### Detailed Plan for Reporting on Eligible Mitigation Action Implementation (5.2.11)

As the Lead Agency acting on California's behalf, CARB will provide reporting on eligible mitigation action implementation in three ways: 1) semi-annual reports to the Trustee as required by subparagraph 5.3 of the Environmental Mitigation Trust Agreement for State Beneficiaries; 2) annual reports to the State Legislature as required by California Senate Bill 92 (Committee on Budgets and Fiscal Review, Chapter 26, Statutes of 2017); and 3) timely updates to CARB's Mitigation Trust implementation website at <https://ww2.arb.ca.gov/our-work/programs/volkswagen-environmental-mitigation-trust-california>.

## Attachment D

### Detailed cost estimates from selected or potential vendors for each proposed expenditure exceeding \$25,000 (5.2.6)

Equipment Category	Estimated Cost
Zero-Emission Class 8 Truck	\$279,000 - \$420,000

Cost estimates are per unit and were provided by technology providers and from information received for other CARB-implemented funding programs and regulations. The Class 8 truck costs above include battery-electric freight trucks and refuse trucks.