



STATE OF CALIFORNIA

GRANT REQUEST FORM (GRF)

CEC-270 (Revised 12/2019)

CALIFORNIA ENERGY COMMISSION

A) New Agreement # ZVI-22-014 (to be completed by CGL office)

B) Division	Agreement Manager:	MS-	Phone
600 Fuels and Transportation Division	Kate Reid	27	916-237-2536

C) Recipient's Legal Name	Federal ID #
San Joaquin Valley Air Pollution Control District	77-0262563

D) Title of Project
Grocery Operations for Carbon Emission Reductions (GROCER)

E) Term and Amount

Start Date	End Date	Amount
10 / 12 / 2022	03 / 31 / 2026	\$ 10,348,873

F) Business Meeting Information

ARFVTP agreements \$75K and under delegated to Executive Director
 Proposed Business Meeting Date 10 / 12 / 2022 Consent Discussion
 Business Meeting Presenter Marc Perry Time Needed: 5 minutes
 Please select one list serve. Altfuels (AB118- ARFVTP)

Agenda Item Subject and Description:

San Joaquin Valley Air Pollution Control District. Proposed resolution approving Agreement ZVI-22-014 with San Joaquin Valley Air Pollution Control District for a \$10,348,873 grant to install a minimum of 25 direct current fast chargers (DCFC), a battery energy storage system (BESS), and distributed energy resources (DER) to support 50 on-road Class 8 battery-electric trucks and to conduct workforce training and development and community outreach and adopting staff's determination that this action is exempt from CEQA. The proposed DCFC, BESS, and DER will be capable of charging and supporting the pilot of 50 on-road, Class 8 Volvo battery-electric trucks that are being funded by the California Air Resources Board. (General Fund Funding)
 Contact: Marc Perry (Staff Presentation: 5 minutes)

G) California Environmental Quality Act (CEQA) Compliance

- Is Agreement considered a "Project" under CEQA?
 Yes (skip to question 2) No (complete the following (PRC 21065 and 14 CCR 15378)):
- If Agreement is considered a "Project" under CEQA:
 - Agreement **IS** exempt.
 - Statutory Exemption. List PRC and/or CCR section number:
 - Categorical Exemption. List CCR section number: 15301 – Existing Facilities and 15304 – Minor Alterations to Land
 - Common Sense Exemption. 14 CCR 15061 (b) (3)
 Explain reason why Agreement is exempt under the above section:
 - California Code of Regulations, title 14, section 15301 provides that projects which consist of the operation, repair, maintenance, permitting,

**GRANT REQUEST FORM (GRF)**

leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, and which involve negligible or no expansion of use beyond that existing at the time of the lead agency's determination, are categorically exempt from the provisions of the California Environmental Quality Act. The physical aspects of this project consist of minor physical modifications or alterations to existing facilities involving electrical conveyances. Specifically, approximately 25 direct-current fast chargers will be installed at an existing paved parking lot at the Albertson's Distribution Center in Tracy, California. Upgrades will be made to existing electrical panels and minor trenching and backfilling will be done to connect to those panels. Also, a battery energy storage system (BESS) will be installed. Installation of the BESS will entail pouring a concrete pad for the BESS to sit upon, with minor trenching for conduit and cables connecting to existing electrical panels in the charging system. Also, a distributed energy resource (DER) system will be installed. Installation of the DER system will entail pouring a concrete pad for a micro-grid to sit upon, with minor trenching for conduit and cables connecting to PV solar canopies covering the existing parking area. All proposed activity for charger, BESS, and DER system installation will be within an existing paved area at the distribution center. For these reasons, the proposed work will not have any significant effect on the environment and falls under section 15301.

- California Code of Regulations, title 14, Section 15303 provides that projects which consist of construction and location of limited numbers of new, small facilities or structures; installation of small new equipment and facilities in small structures; and the conversion of existing small structures from one use to another where only minor modifications are made in the exterior of the structure, are categorically exempt from the provisions of the California Environmental Quality Act. Each charger is approximately the size of a gas pump, and the approximate footprint of the charger installation will be 378 sq ft. The BESS would be at most the size of two shipping containers, each one approximately 40 feet long, 8 feet wide and 9.5 feet high (a footprint of 40 feet by 16 feet = 640 sq ft, with no need for a structure/building around them). Total square footage of the system would be on the order of 1100 sq ft. The DER system would consist of either utilizing existing on-site wind turbines, or the following system: 1) a micro-grid in one shipping container approximately 20 feet long, 8 feet wide, and 9.5 feet high (a footprint of 20 feet by 8 feet = 160 sq ft, with no need for a structure/building around it) and 2) solar canopies estimated to cover less than 5000 sq. ft of the existing parking lot at the Albertson's Distribution Center in Tracy, California. The total square footage of all installations (chargers, BESS, and DER system) under this proposed project will be approximately 6200 sq ft. For these reasons, the proposed work will not have any significant effect on the environment and falls under section 15304.

- b) Agreement **IS NOT** exempt. (consult with the legal office to determine next steps)

Check all that apply



GRANT REQUEST FORM (GRF)

- Initial Study
- Negative Declaration
- Mitigated Negative Declaration
- Environmental Impact Report
- Statement of Overriding Considerations

H) List all subcontractors (major and minor) and equipment vendors, including those listed in the grant application: (attach additional sheets as necessary)

Legal Company Name:	Budget
See attached – List of Subcontractors	\$ 0.00
	\$ 0.00
	\$ 0.00

I) List all key partners, including those listed in the grant application: (attach additional sheets as necessary)

Legal Company Name:
Pacific Gas & Electric (PG&E)

J) Budget Information

Funding Source	Funding Year of Appropriation	Budget List Number	Amount
General Fund	FY 21/22	601.129DTP	\$10,348,873.00
Funding Source			\$
Funding Source			\$

R&D Program Area: Select Program Area TOTAL: \$10,348,873.00

Explanation for "Other" selection

Reimbursement Contract #: Federal Agreement #:

K) Recipient's Contact Information

1. Recipient's Administrator/Officer

Name: Aaron Tarango
 Address: 1990 E. Gettysburg Avenue
 City, State, Zip: Fresno, CA 93726
 Phone: (559) 230-5800
 E-Mail: aaron.tarango@valleyair.org

2. Recipient's Project Manager

Name: David Lopez
 Address: 1990 E. Gettysburg Avenue
 City, State, Zip: Fresno, CA 93726
 Phone: (559) 230-6144
 E-Mail: david.lopez@valleyair.org

L) Selection Process Used

- Competitive Solicitation Solicitation #: GFO-20-606
- First Come First Served Solicitation Solicitation #: - -



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GRANT REQUEST FORM (GRF)

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M) The following items should be attached to this GRF

- | | | |
|---|---|-----------------------------------|
| 1. Exhibit A, Scope of Work | <input checked="" type="checkbox"/> | Attached |
| 2. Exhibit B, Budget Detail | <input checked="" type="checkbox"/> | Attached |
| 3. CEC 105, Questionnaire for Identifying Conflicts | <input checked="" type="checkbox"/> | Attached |
| 4. Recipient Resolution | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> Attached |
| 5. CEQA Documentation | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> Attached |

Agreement Manager

Date

Office Manager

Date

Deputy Director

Date

Exhibit A SCOPE OF WORK

TECHNICAL TASK LIST

Task #	CPR	Task Name
1	X	Administration
2		Purchase and Deploy Battery-Electric Trucks
3	X	Design, Install, and Deploy Charging Infrastructure Including any Applicable EVSE, BESS, AND DER Equipment
4	X	Innovative Ecosystem Development
5		Ongoing Operations Planning
6		Workforce Development
7	X	Outreach, Engagement, and Knowledge Transfer
8	X	Data Collection and Analysis
9		Project Fact Sheet

KEY NAME LIST

Task #	Key Personnel	Key Subcontractor(s)	Key Partner(s)
1		BUILD Momentum (Momentum)	
2		Volvo TEC Equipment, Inc. (TEC Equipment)	
3		Albertsons	Pacific Gas & Electric Company (PG&E)
4		Albertsons Volvo	PG&E
5		Volvo Burns & McDonnell ChargerHelp, Inc. (ChargerHelp)	
6		Albertsons Volvo TEC Equipment	

Task #	Key Personnel	Key Subcontractor(s)	Key Partner(s)
7		Albertsons Volvo Burns & McDonnell Energy Mission Control Corporation	
8		CALSTART, Inc. Burns & McDonnell	
9			

GLOSSARY

Specific terms and acronyms used throughout this scope of work are defined as follows:

Term/ Acronym	Definition
Albertsons	Albertsons Companies, Inc.
BESS	Battery Energy Storage System
Burns & McDonnell	Burns & McDonnell Engineering Company, Inc.
CaaS	Charging as a Service
CALSTART	CALSTART, Inc.
CAM	Commission Agreement Manager
CAO	Commission Agreement Officer
CARB	California Air Resources Board
CEC	California Energy Commission
ChargerHelp	ChargerHelp, Inc.
CPR	Critical Project Review
CTP	Clean Transportation Program
DC	Direct Current
DER	Distributed Energy Resources. May include, but is not limited to, on-site renewable electricity generation, energy storage, load management, and demand response technologies.
EV	Electric Vehicle
EVITP	Electric Vehicle Infrastructure Training Program
EVSE	Electric Vehicle Supply Equipment (also referred to as chargers)
FTD	Fuels and Transportation Division
GFO	Grant Funding Opportunity

Term/ Acronym	Definition
GHG	Greenhouse Gas
HD	Heavy-Duty
LCFS	Low Carbon Fuel Standard
Momentum	BUILD Momentum
PG&E	Pacific Gas & Electric Company
Recipient	San Joaquin Valley Air Pollution Control District
SJVAPCD	San Joaquin Valley Air Pollution Control District
TEC Equipment	TEC Equipment, Inc.
Volvo	Volvo Trucks North America, Inc.
ZEV	Zero-Emission Vehicles

Background

The Budget Act of 2021 (AB 128, Ting, Chapter 21, Statutes of 2021, as amended by Senate Bill (SB) 129, Skinner, Chapter 69, Statutes of 2021 and SB 170, Skinner, Chapter 240, Statutes of 2021) appropriated \$785,000,000 from the General Fund to support infrastructure deployments and manufacturing projects for zero-emission light-duty and medium- and heavy-duty vehicles.

On November 19, 2020, the California Energy Commission (CEC) and the California Air Resources Board (CARB) released a Grant Funding Opportunity (GFO) entitled “Zero-Emission Drayage Truck and Infrastructure Pilot Project.” This competitive grant solicitation was to support the large-scale deployments of zero-emission, on-road, Class 8 drayage and regional haul trucks and the necessary zero-emission fueling infrastructure needed for service operation. CEC funding will support zero-emission vehicle infrastructure and installation, and workforce training and development. CARB funding will be allocated towards the purchase of on-road zero-emission Class 8 trucks. Other costs associated with administrative and data collection tasks will be supported by either CEC or CARB. In response to GFO-20-606, the Recipient submitted Proposal #2, which was proposed for funding in the CEC’s Notice of Proposed Awards on August 13, 2021. GFO-20-606 and Recipient’s application are hereby incorporated by reference into this Agreement in their entirety.

In the event of any conflict or inconsistency between the terms of the Solicitation and the terms of the Recipient’s Application, the Solicitation shall control. In the event of any conflict or inconsistency between the Recipient’s Application and the terms of CEC’s Award, CEC’s Award shall control. Similarly, in the event of any conflict or inconsistency between the terms of this Agreement and the Recipient’s Application, the terms of this Agreement shall control.

NOTE: CEC is acting in coordination with CARB regarding the overall project, but CARB is not a party to this CEC grant agreement (Agreement). This Agreement is a companion agreement to the agreement between CARB and the Recipient. No work on this project can begin until CARB’s agreement with the Recipient has been executed. Work under the agreement between CARB and Recipient is referenced in this Agreement as a “CARB Task” or “CARB Sub-task;” this means a task or sub-task for which the Recipient’s grant agreement with CARB governs;

where Recipient's performance is due to CARB; and where Recipient's reimbursable costs will be CARB-funded.

Problem Statement:

Using conventional diesel trucks, operating and provisioning a large network of grocery stores is already a complex, energy-intensive challenge that requires sophisticated and dynamic routing tools. Failure at any point in the "just-enough, just-in-time" supply chain can lead to unacceptable outcomes, including food and goods shortages, lost revenue, and spoilage. This project seeks to address air quality challenges in California's San Joaquin Valley and the challenge of how the food delivery industry can transition to zero-emission vehicle (ZEV) technologies while maintaining operational reliability. Challenges that will be addressed include incorporating ZEV routing information into existing models, demonstrating the technical performance of the trucks, managing onsite vehicle charging, and managing electrical delivery and pricing at the site where the trucks will be domiciled.

Goals of the Agreement:

The goal of this Agreement and the Recipient's agreement with CARB is to reduce greenhouse gas (GHG), criteria pollutant, and toxic air contaminant emissions in and around freight facilities and along the routes which the grocery trucks, being purchased under the Recipient's agreement with CARB, operate which will provide economic, environmental, and public health benefits to disadvantaged and low-income communities. Additional goals include: 1) support the large-scale deployment of on-road, zero-emission Class 8 drayage and regional haul trucks in California that are being funded under the Recipient's separate agreement with CARB by deployment of ZEV fueling infrastructure, battery energy storage system (BESS), and distributed energy resource (DER) technologies being funded by this Agreement; 2) better understand fleet dynamics when deploying a large number of zero-emission trucks and supporting infrastructure; 3) support zero-emission, on-road heavy-duty truck manufacturers in realizing the economies of scale that come with larger production volumes; 4) provide multi-regional ZEV workforce development and fleet operator training; and 5) evaluate how Charging as a Service (CaaS) models can be utilized to support cost-effective ZEV transition solutions. CaaS models may be an effective means of reducing the upfront capital required for fleet managers to transition to ZEV, by providing price certainty and stability during operations.

Objectives of the Agreement:

The objectives of this Agreement are to deploy an electric vehicle (EV) charging infrastructure system that will support 50 on-road, zero-emission Class 8 regional haul trucks, which will be purchased under the Recipient's agreement with CARB. The combined trucks and charging infrastructure system will serve a leading regional haul fleet as part of a comprehensive initiative to advance zero-emission technology, assess fleet dynamics, and develop best practices for scaled deployments. The larger objective of the agreement is to collect and share learnings related to fleet adoption and utilization of battery electric trucks, and the steps required to integrate battery electric tractors into a complex dynamic routing fleet dispatch system.

Specifically, the objectives of this Agreement are to:

- Design, procure, install, and operate a minimum of 25 direct current (DC) fast charging stations at the Albertsons Tracy Distribution Center to charge the fleet of 50 electric trucks in accordance with the needs of their respective duty cycles. The project includes tasks to conduct in-depth analyses to determine the optimal number, capacity, and locations of the electric vehicle supply equipment (EVSE).

- Design, procure, install, and operate a battery energy storage system (BESS) to mitigate impacts to the grid from charging 50 electric trucks. This BESS may consist of battery storage within the EVSE devices, or as a separate set of batteries located on the Albertsons Tracy facility grounds. The project includes analyses to determine the optimal BESS design and location.
- Design, procure, install, and operate the optimal combination of distributed energy resources (DER) to support the charging infrastructure system.
- Support workforce development through direct engagement, referrals, and scholarships. Verify via number and value of scholarships and the number of new employment candidates completing training courses and entering ZEV workforce.
- Engage the community, in the geographic area surrounding the Albertsons Tracy Distribution Center and the major routes taken by the fleet of 50 electric trucks, and the grocery industry to accelerate support for ZEV technologies and gather input on project design and implementation. Verify via outreach records, digital impressions, and attendance at relevant workshops, webinars, and conferences.
- Result in positive technical, economic, environmental, and social outcomes:
 - Technical Outcomes
 - Grocery fleet electrification model
 - Integration of EVs into complex dynamic dispatch system
 - Examination of remote charging for range extension in regional haul
 - Economic Outcomes
 - Costs for deployment that can be added to other data for future project estimates
 - Fuel cost savings for fleet operations
 - Environmental Outcomes
 - GHG Reductions
 - Criteria Pollutant reductions
 - Fuel decarbonization
 - Social Outcomes
 - Community awareness of zero-emission Class 8 trucks
 - Community involvement in promoting the adoption of zero-emission trucks
 - Regional involvement in increasing zero-emission truck adoption

TASK 1 ADMINISTRATION (Joint CEC and CARB Task)

Task 1.1 Attend Kick-off Meeting

The goal of this task is to establish the lines of communication and procedures for implementing this Agreement. The Commission Agreement Manager (CAM) shall designate the date and location of this meeting and provide an agenda to the Recipient prior to the meeting.

The Recipient shall:

- Attend a “Kick-Off” meeting with the CAM, the CARB project liaison, the Commission Agreement Officer (CAO), and a representative of the CEC Accounting Office. The Recipient shall bring their Project Manager, Agreement Administrator, Accounting Officer, and any others determined necessary by the Recipient or specifically requested by the CAM or CARB project liaison to this meeting.
- Provide a written statement of project activities that have occurred after the notice of proposed awards but prior to the execution of the agreement using match funds. If none, provide a statement that no work has been completed using match funds prior to the execution of the agreement. All pre-execution match expenditures must conform to the requirements in the Terms and Conditions of this Agreement.
- Discuss the following administrative and technical aspects of this Agreement:
 - Agreement Terms and Conditions
 - Critical Project Review (Task 1.2)
 - Match fund documentation (Task 1.7) No reimbursable work may be done until this documentation is in place.
 - Permit documentation (Task 1.8)
 - Subawards needed to carry out project (Task 1.9)
 - The CAM’s and CARB project liaison’s expectations for accomplishing tasks described in the Scope of Work
 - An updated Schedule of Products and Due Dates
 - Monthly Calls (Task 1.4)
 - Quarterly Progress Reports (Task 1.5)
 - Technical Products (Product Guidelines located in Section 5 of the Terms and Conditions)
 - Final Report (Task 1.6)

Recipient Products:

- Updated Schedule of Products
- Updated List of Match Funds
- Updated List of Permits
- Written Statement of Match Share Activities
- Schedule for obtaining CARB Executive Order(s) for each vehicle make and model during pilot, if not already issued

Commission Agreement Manager Product:

- Kick-Off Meeting Agenda

Task 1.2 Critical Project Review (CPR) Meetings

CPRs provide the opportunity for frank discussions between the CEC and the Recipient. The goal of this task is to determine if the project should continue to receive CEC funding to complete this Agreement and to identify any needed modifications to the tasks, products, schedule or budget.

The CAM may schedule CPR meetings as necessary, and meeting costs will be borne by the Recipient.

Meeting participants include the CAM, CARB project liaison, and the Recipient and may include the CAO, the Fuels and Transportation Division (FTD) program lead, other CEC staff and Management as well as other individuals selected by the CAM and CARB project liaison to provide support to the CEC and CARB.

The CAM shall:

- Determine the location, date, and time of each CPR meeting with the Recipient. These meetings generally take place at the CEC, but they may take place at another location or remotely.
- Send the Recipient the agenda and a list of expected participants in advance of each CPR. If applicable, the agenda shall include a discussion on both match funding and permits.
- Conduct and make a record of each CPR meeting. Prepare a schedule for providing the written determination described below.
- Determine whether to continue the project, and if continuing, whether or not modifications are needed to the tasks, schedule, products, and/or budget for the remainder of the Agreement. Modifications to the Agreement may require a formal amendment (please see section 8 of the Terms and Conditions). If the CAM or CARB project liaison conclude that satisfactory progress is not being made, this conclusion will be referred to the Lead Commissioner for Transportation for his or her concurrence.
- Provide the Recipient with a written determination in accordance with the schedule. The written response may include a requirement for the Recipient to revise one or more product(s) that were included in the CPR.

The Recipient shall:

- Prepare a CPR Report for each CPR that discusses the progress of the Agreement toward achieving its goals and objectives. This report shall include recommendations and conclusions regarding continued work of the projects. This report shall be submitted along with any other products identified in this scope of work. The Recipient shall submit these documents to the CAM and any other designated reviewers at least 15 working days in advance of each CPR meeting.
- Present the required information at each CPR meeting and participate in a discussion about the Agreement.

CAM Products:

- Agenda and a list of expected participants
- Written determination

Recipient Product:

- CPR Report(s)

Task 1.3 Final Meeting

The goal of this task is to closeout this Agreement.

The Recipient shall:

- Meet with CEC staff to present the findings, conclusions, and recommendations. The final meeting must be completed during the closeout of this Agreement.

This meeting will be attended by, at a minimum, the Recipient, CARB project liaison, and the CAM. The technical and administrative aspects of Agreement closeout will be discussed at the meeting, which may be two separate meetings at the discretion of the CAM and CARB project liaison.

The technical portion of the meeting shall present an assessment of the degree to which project and task goals and objectives were achieved, findings, conclusions, recommended next steps (if any) for the Agreement, and recommendations for improvements. The CAM will determine the appropriate meeting participants.

The administrative portion of the meeting shall be a discussion with the CAM and CARB project liaison about the following Agreement closeout items:

- What to do with any equipment purchased with CEC funds (Options)
 - CEC request for specific “generated” data (not already provided in Agreement products)
 - Need to document Recipient’s disclosure of “subject inventions” developed under the Agreement
 - “Surviving” Agreement provisions
 - Final invoicing and release of retention
- Prepare a schedule for completing the closeout activities for this Agreement.

Products:

- Written documentation of meeting agreements
- Schedule for completing closeout activities

Task 1.4 Monthly Calls

The goal of this task is to have calls at least monthly between CAM, CARB project liaison, and Recipient to verify that satisfactory and continued progress is made towards achieving the objectives of this Agreement on time and within budget.

The objectives of this task are to verbally summarize activities performed during the reporting period, to identify activities planned for the next reporting period, to identify issues that may affect performance and expenditures, to verify match funds are being proportionally spent concurrently or in advance of CEC funds or are being spent in accordance with an approved Match Funding Spending Plan, to form the basis for determining whether invoices are consistent with work performed, and to answer any other questions from the CAM and CARB project liaison. Monthly calls might not be held on those months when a quarterly progress report is submitted, or the CAM determines that a monthly call is unnecessary.

The CAM shall:

- Schedule monthly calls.
- Provide questions to the Recipient prior to the monthly call.
- Provide call summary notes to Recipient of items discussed during call.

The Recipient shall:

- Review the questions provided by CAM and CARB project liaison prior to the monthly call.
- Provide verbal answers to the CAM and CARB project liaison during the call.

Product:

- Email to CAM and CARB project liaison concurring with call summary notes

Task 1.5 Quarterly Progress Reports

The goal of this task is to periodically verify that satisfactory and continued progress is made towards achieving the objectives of this Agreement on time and within budget.

The objectives of this task are to summarize activities performed during the reporting period, to identify activities planned for the next reporting period, to identify issues that may affect performance and expenditures, and to form the basis for determining whether invoices are consistent with work performed.

The Recipient shall:

- Prepare a Quarterly Progress Report which summarizes all Agreement activities conducted by the Recipient for the reporting period, including an assessment of the ability to complete the Agreement within the current budget and any anticipated cost overruns. Progress reports are due to the CAM and the CARB project liaison on the 10th day of each January, April, July, and October. The Quarterly Progress Report template can be found on the ECAMS Resources webpage available at <https://www.energy.ca.gov/media/4691>.
- In the first Quarterly Progress Report and first invoice, document and verify match expenditures and provide a synopsis of project progress, if match funds have been expended or if work funded with match share has occurred after the notice of proposed award but before execution of the grant agreement. If no match funds have been expended or if no work funded with match share has occurred before execution, then state this in the report. All pre-execution match expenditures must conform to the requirements in the Terms and Conditions of this Agreement.

Product:

- Quarterly Progress Reports

Task 1.6 Final Report

The goal of the Final Report is to assess the project's success in achieving the Agreement's goals and objectives, advancing science and technology, and providing energy-related and other benefits to California.

The objectives of the Final Report are to clearly and completely describe the project's purpose, approach, activities performed, results, and advancements in science and technology; to present a public assessment of the success of the project as measured by the degree to which goals and objectives were achieved; to make insightful observations based on results obtained; to draw conclusions; and to make recommendations for further projects and improvements to the FTD project management processes.

The Final Report shall be a public document. If the Recipient has obtained confidential status from the CEC and will be preparing a confidential version of the Final Report as well, the Recipient shall perform the following activities for both the public and confidential versions of the Final Report.

In addition to any other applicable requirements, the Final Report must comply with the Americans with Disabilities Act (ADA) of 1990 (42 U.S.C. 12101 et seq.), which prohibits discrimination on the basis of disability; all applicable regulations and guidelines issued pursuant to the ADA; Cal. Gov. Code sects. 7405 and 11135; and Web Content Accessibility Guidelines 2.0, or a subsequent version, as published by the Web Accessibility Initiative of the World Wide Web Consortium at a minimum Level AA success criteria.

The Recipient shall:

- Prepare an Outline of the Final Report.
- Prepare a Final Report complying with ADA requirements and following the latest version of the Final Report guidelines which will be provided by the CAM. The CAM and CARB project liaison shall provide written comments on the Draft Final Report within fifteen (15) working days of receipt. The Final Report must be completed at least 60 days before the end of the Agreement Term.
- Submit one electronic copy of the Final Report with the final invoice to the CAM and the CARB project liaison and one bound copy of the Final Report to the CARB project liaison.

Products:

- Outline of the Final Report
- Draft Final Report
- Final Report

Task 1.7 Identify and Obtain Matching Funds

The goal of this task is to ensure that the match funds planned for this Agreement are obtained for and applied to this Agreement during the term of this Agreement.

The costs to obtain and document match fund commitments are not reimbursable through this Agreement. Although the CEC budget for this task will be zero dollars, the Recipient may utilize match funds for this task. Match funds must be identified in writing and the associated commitments obtained before the Recipient can incur any costs for which the Recipient will request reimbursement.

The Recipient shall:

- Prepare a letter documenting the match funding committed to this Agreement and submit it to the CAM and CARB project liaison at least 2 working days prior to the kick-off meeting. If no match funds were part of the proposal that led to the CEC awarding this Agreement and none have been identified at the time this Agreement starts, then state such in the letter. If match funds were a part of the proposal that led to the CEC awarding this Agreement, then provide in the letter a list of the match funds that identifies the:
 - Amount of each cash match fund, its source, including a contact name, address and telephone number and the task(s) to which the match funds will be applied.
 - Amount of each in-kind contribution, a description, documented market or book value, and its source, including a contact name, address and telephone number and the task(s) to which the match funds will be applied. If the in-kind contribution is equipment or other tangible or real property, the Recipient shall identify its owner and provide a contact name, address and telephone number, and the address where the property is located.
- Provide a copy of the letter of commitment from an authorized representative of each source of cash match funding or in-kind contributions that these funds or contributions have been secured. For match funds provided by a grant a copy of the executed grant shall be submitted in place of a letter of commitment.
- Discuss match funds and the implications to the Agreement if they are reduced or not obtained as committed, at the kick-off meeting. If applicable, match funds will be included as a line item in the progress reports and will be a topic at CPR meetings.
- Provide the appropriate information to the CAM and CARB project liaison if during the course of the Agreement additional match funds are received.
- Notify the CAM and CARB project liaison within 10 days if during the course of the Agreement existing match funds are reduced. Reduction in match funds must be approved through a formal amendment to the Agreement and may trigger an additional CPR meeting.

Products:

- A letter regarding match funds or stating that no match funds are provided
- Copy(ies) of each match fund commitment letter(s) (if applicable)
- Letter(s) for new match funds (if applicable)
- Letter that match funds were reduced (if applicable)

Task 1.8 Identify and Obtain Required Permits

The goal of this task is to obtain all permits required for work completed under this Agreement in advance of the date they are needed to keep the Agreement schedule on track.

Permit costs and the expenses associated with obtaining permits are not reimbursable under this Agreement. Although the CEC budget and CARB budget for this task will be zero dollars, the Recipient may budget match funds for any expected expenditures associated with obtaining permits. Permits must be identified in writing and obtained before the Recipient can make any expenditure for which a permit is required.

The Recipient shall:

- Prepare a letter documenting the permits required to conduct this Agreement and submit it to the CAM and the CARB project liaison at least 2 working days prior to the kick-off meeting. If there are no permits required at the start of this Agreement, then state such in the letter. If it is known at the beginning of the Agreement that permits will be required during the course of the Agreement, provide in the letter:
 - A list of the permits that identifies the:
 - Type of permit
 - Name, address and telephone number of the permitting jurisdictions or lead agencies
 - The schedule the Recipient will follow in applying for and obtaining these permits.
- Discuss the CARB Executive Order(s) and the schedule for obtaining them at the kick-off meeting should the vehicle manufacturer not already have them for each vehicle make and model being piloted.
- Discuss the list of permits and the schedule for obtaining them at the kick-off meeting and develop a timetable for submitting the updated list, schedule and the copies of the permits. The implications to the Agreement if the permits are not obtained in a timely fashion or are denied will also be discussed. If applicable, permits will be included as a line item in the Progress Reports and will be a topic at CPR meetings.
- If during the course of the Agreement additional permits and a CARB Executive Order(s) become necessary, provide the appropriate information on each permit and an updated schedule to the CAM and CARB project liaison.
- As permits and CARB Executive Orders are obtained, send a copy of each approved permit to the CAM and CARB project liaison.
- If during the course of the Agreement permits are not obtained on time or are denied, notify the CAM and CARB project liaison within 5 working days. Either of these events may trigger an additional CPR.

Products:

- Letter documenting the permits or stating that no permits are required
- A copy of each approved permit (if applicable)
- Updated list of permits as they change during the term of the Agreement (if applicable)
- Updated schedule for acquiring permits as changes occur during the term of the Agreement (if applicable)

- A copy of each final approved permit (if applicable)

[CPR WILL BE HELD IN THIS TASK. See Task 1.2 for details]

Task 1.9 Obtain and Execute Subawards

The goal of this task is to ensure quality products and to procure subrecipients required to carry out the tasks under this Agreement consistent with the Agreement Terms and Conditions and the Recipient's own procurement policies and procedures.

The Recipient shall:

- Manage and coordinate subrecipient activities.
- If requested by the CAM or the CARB project liaison, submit a draft of each subaward required to conduct the work under this Agreement to the CAM and the CARB project liaison for review.
- If requested by the CAM or the CARB project liaison, submit a final copy of the executed subaward.
- If Recipient intends to add new subrecipients or change subrecipients, then the Recipient shall notify the CAM and the CARB project liaison.

Products:

- Letter describing the subawards needed, or stating that no subawards are required
- Draft Subcontracts (if requested)
- Final Subcontracts (if requested)

TECHNICAL TASKS

TASK 2 PURCHASE AND DEPLOY BATTERY-ELECTRIC TRUCKS (CARB-funded Task)

This Task will be included in the agreement between CARB and the Recipient.

TASK 3 DESIGN, INSTALL, AND DEPLOY CHARGING INFRASTRUCTURE INCLUDING ANY APPLICABLE EVSE, BESS, AND DER EQUIPMENT

The goal of this task is to conduct site preparation and phased equipment installation of a minimum of 25 DC fast charging stations, expansion stub-outs capable of accepting future charging stations, and BESS and DER equipment determined by Task 4.3. This activity will occur at the Albertsons Tracy Distribution Center.

The Recipient shall:

- Perform pre-construction activities, including conducting a kickoff meeting to discuss design and engineering activities.
- Complete the design and engineering for all proposed EVSE, BESS, and DER equipment. The BESS will be at most the size of two shipping containers, each one approximately with a total footprint of approximately 1100 sq ft. The DER system will consist of either utilizing existing on-site wind turbines, or a micro-grid in one shipping container approximately 160 sq ft, with no need for a structure/building around it, and solar canopies estimated to cover less than 5000 square feet.

- Submit a *Design Memo* to the CAM and CARB project liaison that includes:
 - Number and power level of DC Fast Chargers
 - Battery storage size (kW and kWh)
 - Location of Equipment
 - Summary of analyses to justify the selection of the equipment types, sizes, and quantities
- Develop engineering packages for 30 percent, 50 percent, 90 percent Design Submissions.
- Coordinate with the local electric utility for delivering power and any required service upgrades.
- Conduct site assessment and/or site walk with the utility.
- Finalize, publish, evaluate, and award the *Charging Infrastructure Bid Package*, including any applicable EVSE, BESS, and DER equipment and provide a copy to the CAM and CARB project liaison.
- Specify the *Final Equipment List* including any applicable EVSE, BESS, and DER equipment and order applicable EVSE, BESS, and DER equipment. Submit a copy to the CAM and CARB project liaison.
- Complete Factory Acceptance Testing to confirm operability of the EVSE and truck, expediting commissioning. Submit *Factory Witness Test Report* to the CAM and CARB project liaison.
- Stage the construction site and conduct preconstruction activities in phases, as necessary by the operational constraints of the demonstration facility.
- Inspect the EVSE, BESS, and DERs upon delivery and accept delivery of the equipment.
- Provide *Written Notice(s) to Proceed* to the CAM and CARB project liaison.
- Complete construction work and equipment installation.
- Inspect and test EVSE and networking software with a charging event.
- Verify completion of final inspections.
- Provide *Photographs of any applicable EVSE, BESS, and DERs installed*, including corresponding serial numbers, to the CAM and CARB project liaison.
- Commission each EVSE by verifying the installation meets the project design and overall requirements of the specification and provide a *EVSE Commissioning Report* to the CAM and CARB project liaison.
- Prepare *Affidavit(s) of Substantial Completion: Primary Facility* for each phase of the infrastructure deployment including any applicable EVSE, BESS, and DERs, including digital photos of the charging infrastructure. Provide copies to the CAM and CARB project liaison.

- Submit to the CAM and CARB project liaison an *AB 841 Certification* that certifies the project has complied with all AB 841 (2020) requirements specified in Exhibit C or describes why the AB 841 requirements do not apply to the project. The certification shall be signed by Recipient's authorized representative.
- Submit to the CAM and CARB project liaison *EVITP Certification Numbers* of each Electric Vehicle Infrastructure Training Program (EVITP) certified electrician that installed EV charging infrastructure or equipment. EVITP Certification Numbers are not required to be submitted if AB 841 requirements do not apply to the project.

Products:

- Design Memo
- Charging Infrastructure Bid Package
- Final Equipment List
- Written Notice(s) to Proceed
- Factory Witness Test Report
- Photographs of Installed EVSE, BESS, and DERs with corresponding serial numbers
- EVSE Commissioning Report
- Affidavit(s) of Substantial Completion: Primary Facility
- AB 841 Certification
- EVITP Certification Numbers of each EVITP-certified electrician

[CPR WILL BE HELD IN THIS TASK. See Task 1.2 for details]

TASK 4 INNOVATIVE ECOSYSTEM DEVELOPMENT

The goal of this task is to evaluate software and technology solutions to support the ZEVs. These solutions will be designed to build upon a baseline of charging at the site where the trucks are domiciled. These solutions may include adapting fleet management tools to accommodate EVs, charging management and energy management systems to reduce electrical usage/cost, or renewable energy and DER systems.

Task 4.1 ROUTE ANALYSIS AND ENERGY MODELING

The goal of this task is to optimize asset utilization in a mixed fleet by analyzing routes that represent a good match for vehicle performance and operational needs, and perform energy modeling to finalize charging intervals.

The Recipient shall:

- Identify operational requirements to be considered, such as duty cycles, vehicle assignments, dispatch processes, and driver/labor policies.
- Categorize routes into groups with similar characteristics, for example, routes with similar topography, trip miles, and number of stops.
- Compile findings into an *Operational Analysis of Routes Report*. Provide a copy to the CAM and CARB project liaison.

- Evaluate energy usage of the fleet and primary project facility to develop an *Energy Model* for informing fleet operations. Provide a copy of the *Energy Model* to the CAM and CARB project liaison.

Products:

- Operational Analysis of Routes Report
- Energy Model

TASK 4.2 DEPLOY TRUCK AND CHARGER MANAGEMENT SYSTEMS

The goal of this task is to update the charging management, telematics, dynamic route dispatching, and fleet management systems to ensure the deployed zero-emission trucks are assigned to appropriate routes.

The Recipient Shall:

- Evaluate the various energy, fleet, and facility systems controllers, both existing and planned, for their ability to be integrated.
- Modify Albertsons fleet management and routing systems to prioritize deployment of the proposed zero-emission trucks.
- Deploy the charging management, telematics, dynamic route dispatching, and fleet management systems.
- Prepare and submit to the CAM and CARB project liaison a *Truck and Charger Management Systems Report* documenting the effort to identify an appropriate solution, description of the full systems integration, and lessons learned.

Products:

- Truck and Charger Management Systems Report

TASK 4.3 EVALUATE DER AND BESS TECHNOLOGIES

The goal of this task is to evaluate the facility's needs for additional on-site renewable energy generation, on-site energy storage, and other DER solutions to provide operational and economic benefit to the GROCER Project. This evaluation will inform the design and procurement of the proposed battery energy storage systems under Task 3.

The Recipient shall:

- Prepare an *Energy Management Plan* describing the process for evaluating DER and BESS technologies. Provide a copy to the CAM and CARB project liaison.
- Evaluate ability to utilize existing on-site wind generation to power the proposed EVSE. Determine whether the DER system will consist of either utilizing existing on-site wind turbines, or a micro-grid in one shipping container approximately 160 sq ft, with no need for a structure/building around it, and solar canopies estimated to cover less than 5000 square feet.
- Assess the various suite of commercially-available DER technologies and/or financial instruments, including renewable energy generation, battery energy storage, Power Purchase Agreements for renewable energy, and Community Choice Aggregators for provisioning renewable energy.
- Prepare an *Energy Management Report* documenting the outcome of the evaluation. Provide a copy to the CAM and CARB project liaison.

Products:

- Energy Management Plan
- Energy Management Report

[CPR WILL BE HELD IN THIS TASK. See Task 1.2 for details]

TASK 5 ONGOING OPERATIONS PLANNING

The goal of this task is to manage, operate, and maintain the EVSE, BESS, and DER technologies.

TASK 5.1 TRUCK OPERATIONS (CARB-funded Sub-Task)

This Task will be included in the agreement between CARB and the Recipient.

TASK 5.2 EVSE, BESS, AND DER OPERATIONS

The Recipient shall:

- Initiate operations of newly installed EVSE, BESS and DER equipment, and energy management strategies.
- Prepare a draft and final Operations and Maintenance Plan. Provide copies to the CAM and CARB project liaison.
- Procure tools and equipment enabling on-site maintenance of the EVSE, BESS, and DERs at the demonstration facility.
- Verify execution of *Warranties* and, as applicable, *Maintenance Agreements*. Provide copies to the CAM and CARB project liaison.
- Verify maintenance of infrastructure improvements, stub-outs, EVSE, BESS, and DER at proposed sites. Maintenance will cover the EVSE, BESS, and DER equipment, stub-outs, and signage at each site.
- Ensure that any issues such as malfunctions, repairs, and vandalism are addressed expeditiously.

Products:

- Operations and Maintenance Plan (draft)
- Operations and Maintenance Plan (final)
- Copies of Warranties
- As applicable, Copies of Maintenance Agreements.

TASK 6 WORKFORCE DEVELOPMENT

The goal of this task is to support multi-regional workforce development by engaging and promoting programs that train qualified electricians for infrastructure installation and maintenance and certified technicians for ZEV maintenance.

The Recipient shall:

- Support the project team in the development and coordination of a Workforce Development Advisory Committee with the intention of enabling and developing the multi-regional workforce needed to support large scale heavy-duty (HD) ZEV deployments.

- Provide a *List of Participants in the Workforce Development Advisory Committee*. Provide a copy to the CAM and CARB project liaison.
- Hold Workforce Development Advisory Committee meetings annually, during the term of the agreement.
- Provide *Workforce Development Advisory Committee Agendas and Minutes* to the CAM and CARB project liaison.
- Work with the EVITP, industry training partners, and relevant labor groups to perform outreach to potential contractors to ensure that the selected contractor uses electricians that are certified through the EVITP, a national certification for trained electricians.
- Work with the Workforce Development Partners to develop comprehensive training programs and perform outreach and identify job training pathways for HD ZEV fleet operators.
- Develop a *Workforce Development Pathways Report* for use by future HD ZEV fleet operators, industry, communities, schools, and colleges. Provide a copy to the CAM and CARB project liaison.
- Support and provide curriculum development and instruction in the skills needed to design, manufacture, deploy, install, operate, and maintain EVSE and HD ZEVs.

Products:

- List of Participants in the Workforce Development Advisory Committee
- Workforce Development Advisory Committee Agendas
- Workforce Development Advisory Committee Minutes
- Workforce Development Pathways Report

TASK 7 OUTREACH, ENGAGEMENT, AND KNOWLEDGE TRANSFER

The goal of this task is to engage local communities and industry to gather feedback on the proposed project as well as generate awareness of the benefits of the electrification of the grocery and goods movement industries, the success of this project, and the availability of commercialized HD ZEVs within the communities in which the trucks will operate.

The Recipient shall:

- Convene a monthly communications, outreach, and technology transfer meeting with relevant project team members.
- Develop a draft and final *Technology/Knowledge Transfer Plan*, and provide to the CAM and CARB project liaison, that includes:
 - A list of key outreach targets that includes community-based organizations, industry stakeholders, utilities, elected officials, and the general public. Targets will be segmented by categories, including community, technology, and policy.

- A list of deliverables and collateral to prepare for use in outreach, engagement, and technology/knowledge transfer. Materials will be provided in English and Spanish. These may include, but are not limited to:
 - Project videos (groundbreaking, construction, ribbon cutting)
 - Project website (updated regularly)
 - Project Fact Sheet(s)
 - Press Releases
 - Journal Articles
 - Conference and Workshop Presentations
- A schedule of community and stakeholder outreach activities over the duration of the project. Include attendance at select local community events that correspond with project milestones.
- Showcase Technology and raise awareness of project by engaging media outlets and industry trade associations, including:
 - Participate in industry trade shows and conferences
 - Develop a white paper/guidebook
 - Host a technology showcase event/summit
- Disseminate lessons learned from this project locally, nationally, and globally.
- Develop Community College curriculum.
- Conduct technology transfer activities in accordance with the Technology/Knowledge Transfer Plan. These activities will be reported in the Quarterly Progress Reports.
- Support the deployment of community air monitoring projects in coordination with AB 617 communities in the project area.
- When directed by the CAM, develop Presentation Materials for a CEC - sponsored conference/workshop(s) on the project.
- Prepare a draft and final *Technology/Knowledge Transfer Report* on technology transfer activities conducted during the project. Provide a copy to the CAM and CARB project liaison.
- Evaluate the economic opportunity to optimize the GROCER Project's emissions reductions and generation of Low Carbon Fuel Standard (LCFS) credits through the purchase and retirement of renewable energy certificates.
- Prepare an *LCFS Optimization Report* describing the results of this evaluation. Provide a copy to the CAM and CARB project liaison.
- Prepare *Outreach and Engagement Summary Report* that includes documentation and analysis of outreach to local, regional, and national stakeholders; press releases; social media; and news stories. Outreach and Engagement Summary efforts to be included in Quarterly Progress Reports as applicable. Provide a copy of the *Outreach and Engagement Summary Report* to the CAM and CARB project liaison.

- Organize and host ribbon cutting or other celebratory event(s). Provide material from the event(s) to the CAM and CARB project liaison.

Products:

- Draft Technology/Knowledge Transfer Plan
- Final Technology/Knowledge Transfer Plan
- Draft Technology/Knowledge Transfer Report
- Final Technology/Knowledge Transfer Report
- LCFS Optimization Report
- Outreach and Engagement Summary Report
- Completed Presentation Materials for CEC sponsored conferences/workshops
- Ribbon cutting or other celebratory event(s)

[CPR WILL BE HELD IN THIS TASK. See Task 1.2 for details]

TASK 8 DATA COLLECTION AND ANALYSIS

The goal of this task is to collect operational data from the project, to analyze that data for economic and environmental impacts, and to include the data and analysis in the Final Report.

The Recipient shall:

- Develop data collection test plan.
- Determine data available from existing telematics systems and install additional data collection equipment as needed and ensure all necessary data is collected and that it works with the vehicles and infrastructure being demonstrated for this project.
- Troubleshoot any issues identified.
- Collect and provide the following data:
 - Number, type, date and location of chargers installed.
 - Nameplate capacity of the installed equipment, in kW for chargers.
 - Number and type of outlets per charger.
 - Location type, such as street, parking lot, hotel, restaurant or multi-unit housing.
 - Total cost per charger, the subsidy from the CEC per charger, federal subsidy per charger, utility subsidy per charger, and privately funded share per charger.
- Provide duty cycle of the current fleet and the expected duty cycle of future vehicle acquisitions.
- Collect and provide 12 months of throughput, usage, and operations data from the deployed infrastructure for the 50 battery-electric trucks. Data must be collected monthly and submitted to the CAM and CARB project liaison in Quarterly Progress Reports, during the term of the agreement. Collect and

provide data using the data collection requirements detailed in GFO-20-606's Attachment 20, Data Collection Requirements, and including but not limited to:

- Number of charging sessions
 - Average charger downtime
 - Peak power delivered (kW)
 - Duration of active charging, hourly
 - Duration of charging session, hourly (e.g., vehicle parked but not actively charging)
 - Average session duration
 - Energy delivered (kWh)
 - Average kWh dispensed
 - Types of vehicles using the charging equipment
 - Applicable costs for charging, including but not limited to: electric utility tariff, EVSP service contract, or public charger price.
 - Payment method for public charging
 - Energy delivered back to grid or facility if a bidirectional charging use case (kWh)
 - Maximum capacity of the new fueling system
 - Normal operating hours, up time, downtime, and explanations of variations
 - Maintenance and repairs performed
 - Amount of time equipment was out of service for maintenance and repairs
 - Gallons of gasoline and/or diesel fuel displaced (with associated mileage information)
 - Expected air emissions reduction, for example:
 - Non-methane hydrocarbons
 - Oxides of nitrogen
 - Particulate Matter
 - Formaldehyde
 - Duty cycle of the current fleet and the expected duty cycle of future vehicle acquisitions
- Identify any current and planned use of renewable energy at the facility.
 - Describe any energy efficiency measures used in the facility that may exceed Title 24 standards in Part 6 of the California Code Regulations.
 - Provide data on potential job creation, economic development, and increased state revenue as a result of expected future expansion.

- Provide a quantified estimate of the project's carbon intensity values for life-cycle GHG emissions.
- Compare any project performance and expectations provided in the proposal to CEC with actual project performance and accomplishments.
- Collect data, information, and analysis described above and include in the Final Report.
- Data collection and analysis for infrastructure will include:
 - Installation and capital costs for hardware, installation, electrical upgrades.
 - Aggregated/average price of electricity.
 - Performance metrics/analysis of charger reliability.
- Conduct project stakeholder surveys, interviews and data reviews with fleet operators, original equipment manufacturers, and utilities to identify challenges, successes, lessons learned and best practices during beginning, mid-point, and end of the project.

Products:

- Data Collection Test Plan
- Monthly Data Collection
- Monthly Data Collection submitted to CEC and CARB with quarterly progress reports
- Data Collection Information and Analysis will be included in the Final Report
[CPR WILL BE HELD IN THIS TASK. See Task 1.2 for details]

TASK 9 PROJECT FACT SHEET

The goal of this task is to develop an initial and final project fact sheet that describes the CEC- and CARB-funded project and the benefits resulting from the project for the public and key decision makers.

The Recipient shall:

- Prepare an Initial Project Fact Sheet at start of the project that describes the project and the expected benefits. Use the format provided by the CAM.
- Prepare a Final Project Fact Sheet at the project's conclusion that describes the project, the actual benefits resulting from the project, and lessons learned from implementing the project. Use the format provided by the CAM.
- Provide at least (6) six High Quality Digital Photographs (minimum resolution of 1300x500 pixels in landscape ratio) of pre and post technology installation at the project sites or related project photographs.

Products:

- Initial Project Fact Sheet
- Final Project Fact Sheet
- High Quality Digital Photographs

STATE OF CALIFORNIA
STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: San Joaquin Valley Air Pollution Control District

RESOLVED, that the State Energy Resources Conservation and Development Commission (CEC) adopts the staff CEQA findings contained in the Agreement or Amendment Request Form (as applicable); and

RESOLVED, that the CEC approves Agreement ZVI-22-014 with San Joaquin Valley Air Pollution Control District for a \$10,348,873 grant to install a minimum of 25 DCFC and a battery energy storage system (BESS) to support 50 on-road Class 8 battery-electric trucks and to conduct workforce training and development and community outreach. The proposed DCFC and BESS will be capable of charging and supporting the pilot of 50 on-road, Class 8 Volvo battery-electric trucks that are being funded by the California Air Resources Board (CARB); and

FURTHER BE IT RESOLVED, that the Executive Director or their designee shall execute the same on behalf of the CEC.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the CEC held on October 12, 2022.

AYE:
NAY:
ABSENT:
ABSTAIN:

Dated:

Liza Lopez
Secretariat