**New Agreement ARV-15-004** (To be completed by CGL Office)

<table>
<thead>
<tr>
<th>Division</th>
<th>Agreement Manager</th>
<th>MS-Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 Fuels and Transportation Division</td>
<td>Larry Rillera</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td></td>
<td>916-651-6178</td>
</tr>
</tbody>
</table>

**Recipient's Legal Name**

Motiv Power Systems, Inc.

**Federal ID Number**

27-1308892

**Title of Project**

Class C Electric-Quest School Bus Demonstration

**Term and Amount**

<table>
<thead>
<tr>
<th>Start Date</th>
<th>End Date</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>8/3/2015</td>
<td>5/31/2018</td>
<td>$2,760,391</td>
</tr>
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</table>

**Business Meeting Information**

- ARFVTP agreements under $75K delegated to Executive Director.
- Proposed Business Meeting Date: 7/8/2015
- Consent: ☑
- Discussion: ☑
- Business Meeting Presenter: Larry Rillera
- Time Needed: 5 minutes

**Proposed Business Meeting Date**

7/8/2015

**Agenda Item Subject and Description**

Proposed resolution approving Agreement ARV-15-004 with Motiv Power Systems, Inc. for a $2,760,391 grant to conduct a battery-electric Class C school bus demonstration project for five buses. The demonstration will occur in the Reedley, Colton, and Los Angeles regions which contain disadvantaged communities.

**California Environmental Quality Act (CEQA) Compliance**

1. Is Agreement considered a “Project” under CEQA?
   - ☑ Yes (skip to question 2)
   - ☐ No (complete the following (PRC 21065 and 14 CCR 15378)):
     - Explain why Agreement is not considered a “Project”:
     - Agreement will not cause direct physical change in the environment or a reasonably foreseeable indirect physical change in the environment because

2. If Agreement is considered a “Project” under CEQA:
   - ☑ Agreement IS exempt. (Attach draft NOE)
     - Statutory Exemption. List PRC and/or CCR section number:
     - Categorical Exemption. List CCR 14 CCR 15306 (Information Collection) section number:
     - Common Sense Exemption. 14 CCR 15061 (b) (3)
     - Explain reason why Agreement is exempt under the above section:
     - This is a demonstration and information collection project. The building of new school buses with all electric drive systems will occur at Motiv's existing vehicle technology facility. The project will consist of building and using battery electric buses to be demonstrated in the Reedley, Colton and Los Angeles regions which contain disadvantaged communities for data collection and research purposes in order to advance battery electric technology that may lead to commercialization and future procurement. The buses will be built at an existing facility that will not result in a serious or major disturbance to an environmental resource as the facility is already permitted for this type of activity.
   - ☐ b) Agreement IS NOT exempt. (Consult with the legal office to determine next steps.)

**List all subcontractors (major and minor) and equipment vendors:** (attach additional sheets as necessary)

<table>
<thead>
<tr>
<th>Legal Company Name</th>
<th>Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starcraft</td>
<td>$96,300</td>
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<tr>
<td>Electrician (TBD)</td>
<td>$21,400</td>
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**List all key partners:** (attach additional sheets as necessary)
Legal Company Name:
Creative Bus Sales
Kern/Los Angeles Unified School District

Budget Information

<table>
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<tr>
<th>Funding Source</th>
<th>Funding Year of Appropriation</th>
<th>Budget List No.</th>
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<tr>
<td>ARFVTF</td>
<td>13/14</td>
<td>601.118G</td>
<td>$2,702,223</td>
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<td>601.118H</td>
<td>$58,168</td>
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<tr>
<td>Funding Source</td>
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<td>$</td>
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<td>$</td>
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<tr>
<td>R&amp;D Program Area:</td>
<td>Select Program Area</td>
<td>TOTAL:</td>
<td>$2,760,391</td>
</tr>
</tbody>
</table>

Explanation for “Other” selection

Reimbursement Contract #: Federal Agreement #: 

Recipient’s Administrator/ Officer

Name: Jim Castelaz
Address: 1165 Chess Drive, Suite E
City, State, Zip: Foster City, CA 94404
Phone: 650-458-4829
Fax: 650-350-4284
E-Mail: jim@motivps.com

Recipient’s Project Manager

Name: Same
Address: 
City, State, Zip: 
Phone: -
Fax: -
E-Mail: 

Selection Process Used

☒ Competitive Solicitation
☐ First Come First Served Solicitation

Solicitation #: PON-14-605

The following items should be attached to this GRF

1. Exhibit A, Scope of Work
2. Exhibit B, Budget Detail
3. CEC 105, Questionnaire for Identifying Conflicts
4. Recipient Resolution
5. CEQA Documentation

☒ Attached ☐ N/A ☐ Attached
☒ Attached ☜ N/A ☜ Attached

Agreement Manager Date Office Manager Date Deputy Director Date
Exhibit A
SCOPE OF WORK

TECHNICAL TASK LIST

<table>
<thead>
<tr>
<th>Task #</th>
<th>CPR</th>
<th>Task Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Administration</td>
</tr>
<tr>
<td>2</td>
<td>X</td>
<td>Initial Bus Specifications, Testing, and Build</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Remaining Bus Builds</td>
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<tr>
<td>4</td>
<td></td>
<td>Demonstration, Data Collection and Analysis</td>
</tr>
</tbody>
</table>

KEY NAME LIST

<table>
<thead>
<tr>
<th>Task #</th>
<th>Key Personnel</th>
<th>Key Subcontractor(s)</th>
<th>Key Partner(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jim Castelaz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Will Treichler, John Clements, Ernest Marquez</td>
<td>Starcraft</td>
<td>Creative Bus Sales</td>
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<td>3</td>
<td>Will Treichler, John Clements, Ernest Marquez</td>
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<td>4</td>
<td>Urvashi Nagrani, John Clements</td>
<td></td>
<td>Los Angeles Unified School District; Kings Canyon Unified School District</td>
</tr>
</tbody>
</table>

GLOSSARY

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

<table>
<thead>
<tr>
<th>Term/ Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARFVTP</td>
<td>Alternative and Renewable Fuel and Vehicle Technology Program</td>
</tr>
<tr>
<td>CAM</td>
<td>Commission Agreement Manager</td>
</tr>
<tr>
<td>CPR</td>
<td>Critical Project Review</td>
</tr>
<tr>
<td>FTD</td>
<td>Fuels and Transportation Division</td>
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<tr>
<td>Recipient</td>
<td>Motiv Power Systems, Inc.</td>
</tr>
<tr>
<td>CHP</td>
<td>California Highway Patrol</td>
</tr>
</tbody>
</table>
BACKGROUND
Assembly Bill (AB) 118 (Núñez, Chapter 750, Statutes of 2007), created the Alternative and Renewable Fuel and Vehicle Technology Program (ARFVTP). The statute authorizes the California Energy Commission (Energy Commission) to develop and deploy alternative and renewable fuels and advanced transportation technologies to help attain the state’s climate change, clean air, and alternative energy policies. AB 8 (Perea, Chapter 401, Statutes of 2013) re-authorizes the ARFVTP through January 1, 2024. The ARFVTP has an annual budget of approximately $100 million and provides financial support for projects that:

- Reduce California’s use and dependence on petroleum transportation fuels and increase the use of alternative and renewable fuels and advanced vehicle technologies.
- Produce sustainable alternative and renewable low-carbon fuels in California.
- Expand alternative fueling infrastructure and fueling stations.
- Improve the efficiency, performance and market viability of alternative light-, medium-, and heavy-duty vehicle technologies.
- Retrofit medium- and heavy-duty on-road and non-road vehicle fleets to alternative technologies or fuel use.
- Expand the alternative fueling infrastructure available to existing fleets, public transit, and transportation corridors.
- Establish workforce training programs and conduct public outreach on the benefits of alternative transportation fuels and vehicle technologies.

The Energy Commission issued Solicitation PON-14-605 entitled “Medium- and Heavy-Duty Advanced Vehicle Technology Demonstration” under the ARFVTP on December 19, 2014. This competitive grant solicitation was an offer to cost share the development of truck demonstrations. To be eligible for funding under PON-14-605, the projects must also be consistent with the Energy Commission’s ARFVTP Investment Plan as updated annually. In response to PON-14-605, the Recipient submitted Application #24 which was proposed for funding in the Energy Commission’s Notice of Proposed Awards on March 24, 2015. PON-14-605 is hereby incorporated by reference into this Agreement in its 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 the Energy Commission’s Award, the Energy Commission’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.
Problem Statement:
Electric vehicle technology has advanced greatly in recent years. However, this technology has been slow to be adopted by schools and fleets transporting students. Aging diesel buses release harmful emissions and particulate matter close to vulnerable students. The medium-duty electric vehicle space has been unable to provide reliable, safe, and cost-effective vehicles that fleet managers are willing to invest. While some pilot buses have begun to be deployed, there is still a lack of commercially available zero-emission options that can meet the market need of better buses for students, communities, and fleets.

Goal of the Agreement:
The goal of this Agreement is to demonstrate an electric version of the Starcraft Quest XL (“eQuest”) bus platform.

Objectives of the Agreement:
The objectives of this Agreement are to develop an all-electric school bus, California Highway Patrol (CHP) certified to carry children, seek eligibility under the Hybrid and Zero-Emission Truck and Bus Voucher Project (HVIP), and publish an economic analysis utilizing detailed demonstration data to determine the return on investment for fleets.

TASK 1 ADMINISTRATION

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 Commission Agreement Officer (CAO), and a representative of the Energy Commission 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 to this meeting.
- Discuss the following administrative and technical aspects of this Agreement:
  - Agreement Terms and Conditions
  - Critical Project Review (Task 1.2)
  - Match fund documentation (Task 1.6) No reimbursable work may be done until this documentation is in place.
  - Permit documentation (Task 1.7)
  - Subcontracts needed to carry out project (Task 1.8)
The CAM’s expectations for accomplishing tasks described in the Scope of Work
- An updated Schedule of Products and Due Dates
- Monthly Progress Reports (Task 1.4)
- Technical Products (Product Guidelines located in Section 5 of the Terms and Conditions)
- Final Report (Task 1.5)

**CAM Product:**
- Kick-Off Meeting Agenda

**Recipient Products:**
- Updated Schedule of Products
- Updated List of Match Funds
- Updated List of Permits

**Task 1.2 Critical Project Review (CPR) Meetings**

CPRs provide the opportunity for frank discussions between the Energy Commission and the Recipient. The goal of this task is to determine if the project should continue to receive Energy Commission 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 and the Recipient and may include the Commission Agreement Officer, the Fuels and Transportation Division (FTD) program lead, other Energy Commission staff and Management as well as other individuals selected by the CAM to provide support to the Energy Commission.

**The CAM shall:**
- Determine the location, date, and time of each CPR meeting with the Recipient. These meetings generally take place at the Energy Commission, but they may take place at another location.
- 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 concludes 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
• Schedule for written determination
• 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 Energy Commission 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, the Commission Grants Office Officer, and the Commission Agreement Manager. 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 Commission Agreement Manager.
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 Commission Agreement Manager will determine the appropriate meeting participants.

The administrative portion of the meeting shall be a discussion with the Commission Agreement Manager and the Grants Officer about the following Agreement closeout items:

- What to do with any equipment purchased with Energy Commission funds (Options)
- Energy Commission’s 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 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 Monthly 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. Each progress report is due to the Commission Agreement Manager within 10 days of the end of the reporting period. The recommended specifications for each progress report are contained in Section 6 of the Terms and Conditions of this Agreement.
In the first Monthly 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:
- Monthly Progress Reports

Task 1.5 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 Energy Commission 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.

The Recipient shall:
- Prepare an Outline of the Final Report, if requested by the CAM.
- Prepare a Final Report following the latest version of the Final Report guidelines which will be provided by the CAM. The CAM 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 bound copy of the Final Report with the final invoice.

Products:
- Outline of the Final Report, if requested
- Draft Final Report
- Final Report
Task 1.6 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 Energy Commission budget for this task will be zero dollars, the Recipient may utilize match funds for this task. Match funds shall be spent concurrently or in advance of Energy Commission funds for each task during the term of this Agreement. 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 Commission Agreement Manager at least 2 working days prior to the kick-off meeting. If no match funds were part of the proposal that led to the Energy Commission 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 Energy Commission 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 Commission Agreement Manager if during the course of the Agreement additional match funds are received.
• Notify the Commission Agreement Manager 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 1.7 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 Energy Commission budget for this task will be zero dollars, the Recipient shall 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 Commission Agreement Manager 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:
  o A list of the permits that identifies the:
    ▪ Type of permit
    ▪ Name, address and telephone number of the permitting jurisdictions or lead agencies
  o The schedule the Recipient will follow in applying for and obtaining these permits.
• 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 become necessary, provide the appropriate information on each permit and an updated schedule to the Commission Agreement Manager.

As permits are obtained, send a copy of each approved permit to the Commission Agreement Manager.

If during the course of the Agreement permits are not obtained on time or are denied, notify the Commission Agreement Manager 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)

**Task 1.8 Obtain and Execute Subcontracts**

The goal of this task is to ensure quality products and to procure subcontractors 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. It will also provide the Energy Commission an opportunity to review the subcontracts to ensure that the tasks are consistent with this Agreement, and that the budgeted expenditures are reasonable and consistent with applicable cost principles.

**The Recipient shall:**

- Manage and coordinate subcontractor activities.
- Submit a draft of each subcontract required to conduct the work under this Agreement to the Commission Agreement Manager for review.
- Submit a final copy of the executed subcontract.
- If Recipient decides to add new subcontractors, then the Recipient shall notify the CAM.

**Products:**

- Letter describing the subcontracts needed, or stating that no subcontracts are required
- Draft subcontracts
- Final subcontracts
TECHNICAL TASKS

TASK 2 INITIAL BUS SPECIFICATIONS, TESTING, AND BUILD

The goals of this task are to determine the build specifications for the initial bus, select key components, perform integration engineering, and work with fleet operator to test the initial bus for two months.

The Recipient shall:

• Design a computer aided design model on mounting the bus body on to the electric chassis.
• Evaluate modifications that may be needed to the build process due to the use of an electric chassis.
• Select heating, ventilation, and air conditioning (HVAC) system and determine what mechanical and electrical integration will be needed.
• Integrate a wheelchair interlock.
• Power budget for the 12-volt battery.
• Design a vehicle charge electrical receptacle.
• Design the charge access panel.
• Order chassis, deliver chassis to the up fitter, and monitor the progress of the electric up fit.
• Build bus body on to the electrified chassis.
• Ship the initial bus from the up fitter to the Recipient’s facility.
• Document and certify the incomplete vehicle electric up fit.
• Submit and obtain final vehicle documentation and certification.
• Select fleet operator and design a test plan.
• Schedule and conduct a California Highway Patrol (CHP) bus safety inspection, review, and approval. Recipient shall ensure that the project has successfully passed a CHP safety inspection and has been issued a valid CHP Form 292 for each bus before the field demonstration begins.

IMPORTANT: School buses funded under this demonstration project will provide home-to-school transportation for school children in the state of California. Therefore the project must successfully pass a CHP safety inspection and be issued a valid CHP Form 292 for each bus before the field demonstration begins.

• Conduct drive and charge testing.
• Test the HVAC, wheelchair lift, and accessories.
• Test bus response to low state of charge, isolation faulting, low/cutout 12-volt, hydraulics system, and document bus response.
- Calibrate the drive software and test bus charger software. The Recipient shall also test for software abnormalities including bootloading, data collection, configuration management, and track discovered bugs.
- Prepare report that contains driver and engineer feedback on the changes needed mechanically on the next four bus builds, number of bus miles logged, and charge cycles run during the two month period.

**Products:**
- Summary Report with Photographs
- Copy of CHP inspection notes and approved CHP Form 292

**TASK 3 REMAINING BUS BUILDS**
The goal of this task is to build four more buses.

**The Recipient shall:**
- Schedule four chassis deliveries.
- Up fit the chassis with the Motiv electric up fit kit.
- Build the bus bodies.
- Conduct on-site calibration and perform software updates.
- Provide for vehicle touch-up prior to shipment.
- Deliver buses to fleet demonstrators.
- Schedule and conduct a California Highway Patrol (CHP) bus safety inspection, review, and approval. Recipient shall ensure that the project has successfully passed a CHP safety inspection and has been issued a valid CHP Form 292 for each bus before the field demonstration begins.

**IMPORTANT:** School buses funded under this demonstration project will provide home-to-school transportation for school children in the state of California. Therefore the project must successfully pass a CHP safety inspection and be issued a valid CHP Form 292 for each bus before the field demonstration begins.

**Products:**
- Summary Report with Photographs
- Copy of CHP inspection notes and approved CHP Form 292

**TASK 4 DEMONSTRATION, DATA COLLECTION, AND ANALYSIS**
The goals of this task are to conduct field demonstration, collect performance and 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:

- Conduct field demonstration of five buses transporting school children.
- Develop data collection test plan.
- Troubleshoot any issues identified.
- Collect 12 months of throughput, usage, and operations data from the project including, but not limited to:
  - Maximum capacity of the new fueling system
  - Gallons of gasoline and/or diesel fuel displaced (with associated mileage information)
  - Expected air emissions reduction, for example:
    - Non-methane hydrocarbons
    - Oxides of nitrogen
    - Non-methane hydrocarbons plus oxides of nitrogen
    - Particulate Matter
    - Formaldehyde
  - Duty cycle of the current fleet and the expected duty cycle of future vehicle acquisitions
  - Specific jobs and economic development resulting from this project
- Identify any current and planned use of renewable energy at the facility.
- Identify the source of the alternative fuel.
- 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 greenhouse gas emissions.
- Compare any project performance and expectations provided in the proposal to Energy Commission with actual project performance and accomplishments.
- Collect data, information, and analysis described above and include in the Final Report (see Task 1.5).

Products:

- Data collection information and analysis shall be included in the Final Report (see Task 1.2)
RESOLUTION NO: 14-0708-14d

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: MOTIV POWER SYSTEMS, INC.

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

RESOLVED, that the Energy Commission approves Agreement ARV-15-004 from PON-14-605 with Motiv Power Systems, Inc. for a $2,760,391 grant to conduct a battery-electric Class C school bus demonstration project. The demonstration will occur in the Reedley, Colton, and Los Angeles regions which contain disadvantaged communities; and

FURTHER BE IT RESOLVED, that the Executive Director or his/her designee shall execute the same on behalf of the Energy Commission.

CERTIFICATION

The undersigned Secretariat to the Commission 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 California Energy Commission held on July 8, 2015.

AYE: [List of Commissioners]
NAY: [List of Commissioners]
ABSENT: [List of Commissioners]
ABSTAIN: [List of Commissioners]

Harriet Kallemeyn,
Secretariat