

I. Instructions for Schedule of Products and Due Dates

This workbook contains the spreadsheet for the Schedule of Products and Due Dates. Items in <blue type> need to be completed. All other items should remain unchanged.

For each Administrative Task, insert the planned start and completion dates. For the Critical Project Reviews (CPRs), add as many CPRs as the project requires. If this form is being completed by an Applicant as part of a proposal to the Energy Commission, leave the CPR sections blank. These sections will be completed by the Energy Commission prior to issuing a funding award.

For each Technical Task, insert the name of each task as it is titled in the Scope of Work, the name of each product(s) associated with each task as they are titled in the Scope of Work (using Caps and Bold), and the planned completion dates. Delete or insert rows as necessary.

Schedule of Products and Due Dates (Revised 2/22/2013)

Task Number	Task Name	Product(s)	Due Date
1.1	Attend Kick-off Meeting		
		Updated Schedule of Products	4/1/2013
		Updated List of Match Funds	4/1/2013
		Updated List of Permits	4/1/2013
		Kick-Off Meeting Agenda (CEC)	4/1/2013
1.2	Critical Project Review Meetings		
	1st CPR Meeting	CPR Report	6/12/2013
		Written determination (CEC)	7/12/2013
	2nd CPR Meeting	CPR Report	TBD by CEC
		Written determination (CEC)	TBD by CEC
	<Add as many CPRs as required>	<Utilize same products as 1st CPR Meeting>	TBD by CEC
		<Utilize same products as 1st CPR Meeting>	TBD by CEC
1.3	Final Meeting		
		Written documentation of meeting agreements	4/13/2015
		Schedule for completing closeout activities	4/13/2015
1.4	Monthly Progress Reports		
		Monthly Progress Reports	The 10th calendar day of each month during the approved term of this Agreement
1.5	Final Report		
		Draft Outline of the Final Report	3/30/2015
		Draft Final Report (no less than 60 days before the end term of the agreement)	4/6/2015
		Final Report	4/13/2015
1.6	Identify and Obtain Match Funds		
		A letter regarding match funds or stating that no match funds are provided	4/1/2013
		Copy(ies) of each match fund commitment letter(s) (if applicable)	4/1/2013
		Letter(s) for new match funds (if applicable)	Within 10 days of identifying new match funds
		Letter that match funds were reduced (if applicable)	Within 10 days of identifying reduced match funds

1.7 Identify and Obtain Required Permits		
	Letter documenting the permits or stating that no permits are required	4/1/2013
	A copy of each approved permit (if applicable)	Within 10 days of receiving each permit
	Updated list of permits as they change during the term of the Agreement (if applicable)	Within 10 days of change in list of permits
	Updated schedule for acquiring permits as changes occur during the term of the Agreement (if applicable)	Within 10 days of change in schedule for obtaining permits
1.8 Obtain and Execute Subcontracts		
	Letter describing the subcontracts needed, or stating that no subcontracts are required	4/1/2013
	Draft subcontracts	15 days before the scheduled execution date
	Final subcontracts	Within 10 days of execution
2 Establishment of Pilot Production Line - Related Products		
2.1	Establishment of Assembly Area - Summaries of MWIs for APC, APU and Controller assembly areas, Summary of BOMs and Record of Assembly Drawings for all five components.	2/10/2014
2.2	Establishment of Test Station - Summary of test plans for all five components.	2/24/2014
2.3	Establishment of QC Station - Summary of QC prodedures for all five components.	3/3/2014
2.4	Establishment of Shipping, Receiving and Stock Room Areas - Summary of stocking, kitting, shipping and receiving procedures.	3/31/2014
2.5	Establishment of RMA Analysis Area - Summary of RMA analysis protocols.	5/12/2014
2.6	Production Line Pilot Run - Task 2 report - Pilot Run	5/19/2014
2.7	Data Collection During Early Production - Line performance report for first 6 months of operation.	12/15/2014

* Motiv would suggest 4/21/2014 as a possible due date for the first CPR

EXHIBIT A
SCOPE OF WORK
(Revised 1/4/13 BMc)

TECHNICAL TASK LIST

Task #	CPR	Task Name
1		Administration
2	X	Establishment of Pilot Production Line

KEY NAME LIST

Task #	Key Personnel	Key Subcontractor(s)	Key Partner(s)
1	Jim Castelaz, Linda Silva	None	None
2	Jim Castelaz, Wayne Logan, Ryan Vinyard, Alex Pun, Jeffrey Burke	Airtronics	None

GLOSSARY

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

Term/ Acronym	Definition
APC	Adaptive Power Converter – The hardware and software that sits between a battery group and the rest of the powertrain.
APU	Auxiliary Power Unit – The component that produces the low voltage power for vehicle systems such as pneumatics, hydraulics, lights, and air conditioning. It is equivalent to a traditional alternator.
BOM	Bill of Materials
CAM	Commission Agreement Manager
Charger	The component that plugs into grid power to charge the system.
CPR	Critical Project Review
ePCS	Electric Powertrain Control System – The sum total of Motiv’s system consisting of a PCU, APC(s), APU(s), Charger, and Motor Controller
FTD	Fuels and Transportation Division
Motor Controller	The component that commands the motor and inverter.
MWI	Manufacturing Work Instructions
PCU	Powertrain Control Unit – The brain of Motiv’s system, equivalent to a traditional engine control unit.
QC	Quality Control

Term/ Acronym	Definition
RMA	Returned Materials Authorization

Background:

Assembly Bill 118 (Núñez, Chapter 750, Statutes of 2007), created the Alternative and Renewable Fuel and Vehicle Technology (ARFVT) Program. The statute, subsequently amended by AB 109 (Núñez, Chapter 313, Statutes of 2008), authorizes the Energy Commission to develop and deploy alternative and renewable fuels and advanced transportation technologies to help attain the state's climate change policies. The Energy Commission has an annual program 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 technology 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 statute requires the Energy Commission to adopt and update annually an investment plan to determine funding priorities and opportunities and describe how program funding will be used to complement other public and private investments. The Energy Commission adopted its most recent investment plan on September 7, 2011. A link to the *2011-2012 Investment Plan for the Alternative and Renewable Fuel and Vehicle Technology Program* (CEC-600-2011-006-CMF) can be found at <http://www.energy.ca.gov/2011publications/CEC-600-2011-006/CEC-600-2011-006-CMF.pdf>.

Problem Statement:

Battery-electric trucks have to date been plagued with high cost, low reliability, and low electric range. These technological and market barriers have limited the adoption of these vehicles. These barriers have not been addressed because development of this technology is costly and risky, and vehicle volumes are too low to bring in enough new capital. Incumbent players already control the market with more polluting technologies like gasoline and diesel engines and do not have enough incentive to develop these new technologies. The right partnerships and technologies are needed to leverage capital-intensive production lines already in existence for traditional trucks into producing battery-electric trucks. Technology, such as the Motiv electric Powertrain Control System, is needed for these tradition truck lines to easily integrate zero-emission battery-electric powertrains. Our base technology has been proven on predecessor projects, and this project is an opportunity to move into a higher volume production, starting with a pilot production line capable of supporting approximately 20 of the Motiv ePCS vehicle control systems per month. This project forms a unique opportunity to demonstrate economic viability of the Motiv ePCS, while creating clean technology manufacturing jobs in one of California's economically-distressed areas.

Goals of the Agreement:

The goals of this Agreement:

1. Position the Motiv ePCS as a viable and economical zero-emission powertrain product to truck builders and fleets.
2. Establish a modern, efficient production line, which will include all aspects of continuous improvement philosophy through assembly, QC, test, and reliability analysis.
3. Improve air quality and reduce pollution in critical air basins in California and other areas around the country.

Objectives of the Agreement:

To accomplish these goals, the project team will meet the following objectives:

- A. Create a plan for the commercial production of the Motiv ePCS.
- B. Demonstrate this production plan by producing a pilot build of 3 ePCS systems on a line that is capable of up to 20 systems per month. This plan will include:
 - Assembly drawings, MWIs, and BOMs for the assembly areas
 - QC procedures for the QC stations
 - Test plans for the test stations
 - RMA procedures for the RMA analysis center
- C. Make production-level systems available for sale by the conclusion of this project.
- D. Collect data on all systems produced for the first 6 months in order to obtain the following information:
 - Average build time
 - Rejection rate on the line
 - Return rate to RMA analysis center

- Number of installed systems
- Total fleet miles logged

TASK 1 ADMINISTRATION

Task 1.1 Attend Kick-off Meeting

The goal of Task 1.1 is to establish the lines of communication and procedures for implementing this Agreement.

The Recipient shall:

- Attend a “Kick-Off” meeting with the Commission Agreement Manager, (CAM) the Grants Officer, and a representative of the Accounting Office. The Recipient shall bring its Project Manager, Agreement Administrator, Accounting Officer, and others designated by the Commission Project Manager to this meeting. The administrative and technical aspects of this Agreement will be discussed at the meeting. Prior to the kick-off meeting, the CAM will provide an agenda to all potential meeting participants.

The administrative portion of the meeting shall include, but not be limited to, the following:

- Discussion of the terms and conditions of the Agreement
- Discussion of Critical Project Review (Task 1.2)
- Review of match fund documentation (Task 1.6) No work may be done until this documentation is in place.
- Review of permit documentation (Task 1.7)
- Discussion of subcontracts needed to carry out project (Task 1.8)

The technical portion of the meeting shall include, but not be limited to, the following:

- Presentation of the CAM's expectations for accomplishing tasks described in the Scope of Work
- Review of an updated Schedule of Products
- Discussion of Progress Reports (Task 1.4)
- Discussion of Technical Products (Product Guidelines located in Section 5 of the Terms and Conditions)
- Discussion of the Final Report (Task 1.5)

The CAM shall designate the date and location of this meeting.

Recipient Products:

- Updated Schedule of Products
- Updated List of Match Funds
- Updated List of Permits

CAM Product:

- Kick-Off Meeting Agenda

Task 1.2 Critical Project Review (CPR) Meetings

The goal of Task 1.2 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.

CPRs provide the opportunity for frank discussions between the Energy Commission and the Recipient. The CAM may schedule CPRs as necessary, and CPR costs will be borne by the Recipient.

Participants include the CAM and the Recipient and may include the Commission Grants Officer, the Fuels and Transportation Division (FTD) team 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. One of the outcomes of this meeting will be 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 Transportation Committee for its 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 Task 1.3 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 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.

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 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 Task 1.4 is to periodically verify that satisfactory and continued progress is made towards achieving the research 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 CAM 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.

Product:

- Monthly Progress Reports

Task 1.5 Final Report

The goal of Task 1.5 is to assess the project's success in achieving its 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.
- Prepare a Final Report following the approved outline and 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:

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

Task 1.6 Identify and Obtain Matching Funds

The goal of Task 1.6 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

The Recipient shall:

- Prepare a letter documenting the match funding committed to this Agreement and submit it to the CAM 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 CAM if during the course of the Agreement additional match funds are received.
- Notify the CAM 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.

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 Task 1.7 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 CAM 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 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 CAM.
- As permits are obtained, send a copy of each approved permit to the Commission Project Manager.
- If during the course of the Agreement permits are not obtained on time or are denied, notify the CAM 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)

Task 1.8 Obtain and Execute Subcontracts

The goal of Task 1.8 is for Recipients to identify any subcontracts required to carry out the tasks under this Agreement and to procure them consistent with the terms and conditions of this Agreement 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, that the budgeted expenditures are reasonable and consistent with applicable cost principles.

The Recipient shall:

- Prepare a letter documenting the subcontracts required to conduct this Agreement, and submit it to the CAM at least 2 working days prior to the kick-off meeting. If there are no subcontracts required at the start of this Agreement, then state such in the letter. If it is known at the beginning of

the Agreement that subcontracts will be required during the course of the Agreement, provide in the letter:

- A list of the subcontracts that describes the anticipated maximum budget and general scope of work for each,
- A description of the procurement process to be used, and
- The schedule the Recipient will follow in applying for and obtaining these subcontracts
- Submit a draft of each subcontract and include a budget with the information required in the budget details to the CAM for review and approval, and incorporate any changes recommended by the CAM.
- Submit a final copy of the executed subcontract.

Products:

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

TECHNICAL TASKS

TASK 2 – Establishment of Pilot Production Line

Task 2.1 – Establishment of Assembly Area

The goal of Task 2.1 is to prepare the Airtronics building for the assembly portion of the manufacturing line, install the tools and equipment for assembly, and prepare the documentation and systems necessary for assembly of up to 20 of Motiv’s ePCS systems per month.

The Recipient shall:

Supply a facility layout plan to Airtronics, including assembly lines, QC stations, test stations, a stock room, and shipping and receiving areas

- Make necessary building facility modifications to support the installation of manufacturing equipment.
- Manage the equipment installation, work flow logistics, software installation, and asset management systems.
- Install engineering systems management.
- Establish protocol to assemble all five components in three major assembly areas:
 - APC assembly area
 - APU assembly area
 - Controller assembly area – PCU, Charger, and Motor Controller assembly
- Produce alternative technology vehicle components from the assembly areas.

Products:

- Summary of MWIs for APC assembly area.
- Summary of MWIs for APU assembly area.
- Summary of MWIs for Controller assembly area.
- Summary of BOMs for all five components.
- Record of Assembly Drawings for all five components.

Task 2.2 – Establishment of Test Station

The goal of Task 2.2 is to prepare the Airtronics building for test stations, install the tools and equipment at the test stations, and prepare documents and systems necessary to test up to 20 Motiv ePCS systems per month.

The Recipient shall:

- Prepare test plans for each of the five individual products in the Motiv ePCS.
- Obtain and install all tools and equipment at test stations. Large items in the equipment category include:
 - 250 kW, 1 kV power supply for APC testing
 - 10 kW, 1 kV power supply for APU testing
 - 2 rework solder stations

Products:

- Summary of test plans for all five components.

Task 2.3 – Establishment of QC Station

The goal of Task 2.3 is to prepare the Airtronics building for proper Quality Control practices, to install the necessary tools and equipment at QC stations, and to prepare and document the procedures necessary for checking up to 20 of the Motiv ePCS systems per month.

The Recipient shall:

- Establish formal QC procedures.
- Obtain and install all tools at QC stations.

Products:

- Summary of QC procedures for all five components.

Task 2.4 – Establishment of Shipping, Receiving, and Stock Room Areas

The goal of Task 2.4 is to prepare the Airtronics building for efficient shipping, receiving and stocking of incoming materials and outgoing finished goods.

The Recipient shall:

- Obtain and install all tools and materials in the stock room, shipping area and receiving area.
- Install asset management systems and software.
- Establish stocking, kitting, shipping and receiving procedures.

Products:

- Summary of stocking, kitting, shipping, and receiving procedures.

Task 2.5 – Establishment of RMA Analysis Area

The goal of this task is to prepare space for the RMA analysis portion of the pilot production line, install all tools and equipment at RMA test bench stations, and prepare documents and systems necessary for analyzing returned material and ongoing support for manufacturing line failures, first article testing of system components, and manufacturing line and test development.

The Recipient shall:

- Develop RMA analysis procedures for the purpose of defining the root cause for component and system failures.
- Obtain and install all tools and equipment in the RMA analysis center. Large items in the equipment category include:
 - Various meters, oscilloscopes, debug pods, and analyzers
 - Thermal chamber and thermal imager
- Use industry methods to establish an ongoing continuous improvement force within the company to stay abreast of improving technology in the production arena.

Products:

- Summary of RMA analysis protocols
-

Task 2.6 – Production Line Pilot Run

The goal of Task 2.6 is to run three complete systems through the pilot production line assembled in the other Task 2 subtasks and document the results.

The Recipient shall:

- Complete all assembly, QC, test, and shipping documentation and have this documentation clearly identified on the production line.
- Train all personnel on proper use of the documentation, tools, and equipment.
- Produce a pilot run of three complete Motiv ePCS systems on the production line.

Products:

- Task 2 report – Pilot Run

Possible time for Critical Project Review (CPR) Meeting

Task 2.7 – Data Collection during Early Production

The goal of Task 2.7 is to collect pertinent data during early operation of the pilot production line, and compile such data into useful metrics for reporting.

The Recipient shall:

- Collect data from the production line on timing and failure rates.
- Monitor returns of RMA goods.
- Collect data from Motiv’s fleet telemetry on how many miles are logged.
- Coordinate with fleets to understand how many units have been installed.

Products:

- Line performance report for first 6 months of operation

GRANTS/CONTINGENT AWARD REQUEST



To: Grants and Loans Office

Date: January / 4 / 2013

Project Manager: Barry McLeod Phone Number: (916) 654-3911 ext.
Office: Special Projects Division: Fuels and Transportation MS- 23
Project Title: Pilot Production Line for Powertrain Components of Medium- and Heavy-Duty Electric Vehicles

Type of Request: (check one)

New Agreement: (include items A-F from below) Agreement Number: Assigned by the G&L Office
Program: Alternative and Renewable Fuels and Vehicle Technology Program
Solicitation Name and/or Number: PON-11-604
Legal Name of Recipient: Motiv Power Systems, Inc.
Recipient's Full Mailing Address: 1165 Chess Drive, Suite E
Foster City, CA 94404
Recipient's Project Officer: Jim Castelaz Phone Number: (650) 458-4829 ext.
Agreement Start Date: February / 15 / 2013 Agreement End Date: March / 13 / 2015

Amendment: (Check all that apply) Agreement Number: _____
 Term Extension – New End Date: _____ / _____ / _____
 Work Statement Revision (include Item A from below)
 Budget Revision (include Item B from below)
 Change of Scope (include Items A – F as applicable from below)
 Other: (Specify) _____

ITEMS TO ATTACH WITH REQUEST:

- A. Work Statement
- B. Budget
- C. Recipient Resolution, if applicable. (Resolution may be requested in Special Conditions if not currently available.)
- D. Special Conditions, if applicable.
- E. CEQA Compliance Form
- F. Other Documents as applicable
 - Copy of Score Sheets
 - Copy of Pre-Award Correspondence
 - Copy of All Other Relevant Documents

California Environmental Quality Act (CEQA)

CEC finds, based on recipient's documentation in compliance with CEQA:
 Project exempt: Section 15268 NOE filed: _____ / _____ / _____
 Environmental Document prepared: Type NOD filed: _____ / _____ / _____
 Other: Explain
 CEC has made CEQA finding described in CEC-280, attached

Funding Information:

*Source #1: ARFVT Amount: \$ 2,379,050.00 Statute: _____ FY: 12/13 Budget List #: 601-118E
*Source #2: _____ Amount: \$ Statute: _____ FY: _____ Budget List #: _____
*Source #3: _____ Amount: \$ 0.00 Statute: _____ FY: _____ Budget List #: _____

If federally funded, specify federal agreement number: _____
* Source Examples include ERPA, PIER-E, PIER-NG, FED, GRDA, ARFVT, OTHER.

Business Meeting Approval: (refer to Business Meeting Schedule)

Proposed Business Meeting Date: February / 13 / 2013 Consent Discussion
Business Meeting Participant: Barry McLeod Time Needed: 5 minutes

Agenda Notice Statement: (state purpose in layperson terms)

Possible approval of a Grant / Contingent Award to...
Motiv Power Systems to design and establish a pilot production line capable of assembling 20 Motiv electric Power Control Systems (ePCS)/ mo. The ePCS is a collection of 5 electronic components, that when combined with existing batteries and motors, can be installed on truck/bus chassis, providing a zero-emmission, rechargeable power train for manufacturers. Grant award is \$2,379,050. Matching funds total \$7,137,153.

Project Manager _____ Date _____ Office Manager _____ Date _____ Deputy Director _____ Date _____