

Texas Commission on Environmental Quality
New Technology Research & Development (NTRD) Program
Monthly Project Status Report

Contract Number:	582-11-13471-2019		
Grantee:	Boulder Electric Vehicle, Inc.		
Report for the Monthly period:	July 2011	Date Submitted:	08/02/2011

Section I. Accomplishments

Provide a bulleted list of project accomplishments as well as a description of their importance to the project.

- We completed all of the tasks and sub tasks within task 1 of the project. This included completing the bailment agreements, the needs assessments for the individual fleets, stepping their fleet managers through how to install the charge stations for the electric trucks and completing aerodynamic studies of the build outs. We were able to accomplish this through the use of e mail, scanned documents and webinar style meetings thus eliminating any travel within Task 1. This not only lowered the cost of the task, it also lowered the carbon footprint and any emissions that would be created such as NO_x in the State of Texas by the travel that was originally proposed in Task 1.
- The successful completion of Task 1 is of great importance to the grant as a completed Task 1 will allow us to move on to Task 2 and subsequent completion of the remaining tasks in a timely manner.
- We filed the NTRD Task 1 deliverable report with the grant manager along with all associated appendices. This is also of great importance since it will provided TCEQ and the NTRD grant manager the needed documentation to issue a signed Notice To Proceed (NTP) for Task 2 of the project.
- We continued to implement our inventory control systems in relation to Task 2, building the vehicles.
- We initiated a Finite Element Analysis (FEA) for the composite frame to determine how large a weight capacity and factor of safety our designs will accommodate above and beyond our present build size. This analysis will be gauged against the real world results in Task 5, destructive analysis of the vehicle frame. This shows long range planning within the project, that we are already planning for the implementation of the final task before reports are written. Task 5 will occur in Q1 of 2013.

Indicate which part of the Grant Activities as defined in the grant agreement, the above accomplishments are related to:

- The above accomplishments relate to Task 1, 2, and 5 according to the mention above.

Section II: Problems/Solutions

Problem(s) Identified: Report anticipated or unanticipated problem(s) encountered and its effect on the progress of the project

- a) Some of the city partner fleets are slower to respond to requests than we would like.

We think that the advantages and reality of the program has not yet sunk in to the City fleet partners, specifically San Antonio.

Proposed Solution(s): Report any possible solution(s) to the problem(s) that were considered/encountered

- a) We think that as soon as the first vehicle is built, or perhaps sooner as soon as a signed NTP is issued for Task 2, building the vehicles, Boulder electric Vehicle would like to bring one of our existing vehicles down to Texas and show it to all three city partners and fleet managers. By doing so we will increase the perception of the reality of the project in all of the city manager's minds. This will result in faster cooperation in the future.

In each city government we have at least one major advocate. By bringing an all-electric truck down to Texas in late August it will help each of our advocates bring additional city government members on board and generate "buy-in" to the project on multiple levels. This will also accelerate our commercialization plan.

Figure 1 shows one of the existing vehicles which we could bring down to Texas to enhance the project's acceptance within the city governments.

Figure 1: Example vehicle



Action(s) Conducted and Results: Describe the action(s) taken to resolve the problem(s) and its effect

- a) When city government officials were slow to respond we let them know there was a hard and fast deadline for getting their paperwork turned around. The clause in the bailment agreements that "the city of ... would be willing to accept additional vehicles if other partners could not complete their agreements" and the fact that we had already moved 3 vehicles from the USPS fleet to the FedEx fleet, gave us a lot of leverage for getting the bailments and the certificates of insurance completed.

Section III. Goals and Issues for Succeeding Period:

Provide a brief description of the goal(s) you hope to realize in the coming period and identify any notable challenges that can be foreseen

- We hope to have a signed NTP for the remaining Tasks from TCEQ-NTRD by the middle of August 2011. This will allow us to complete the project in a timely manner.
- Since Task 2 of the grant is the main reimbursable part of the grant we cannot proceed with such a financial commitment on our part until we have a signed NTP and therefore even ordering parts for the 18 test vehicles will have to wait until we have the NTP.
- As soon as we receive a signed NTP we will be able to start ordering parts for building the 18 test vehicles.

Date: 8/2/2011

Authorized Project Representative's Signature

NOTE: *Please attach any additional information that you feel should be a part of your report or that may be required to meet the deliverable requirements for tasks completed during this reporting period.*