

**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. (BEV)
Report for the Monthly period: July 2012 **Date Submitted:** 8/10/2012

Section I. Accomplishments

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

- We have all of the first 9 trucks back from the paint shop.
- We have vehicle identification numbers (VIN) and VIN plates on all of the first 9 trucks. This means we can now get the vehicles registered for the city fleets.
- We are presently road testing the first three city trucks before delivery.
- We have decals for the cities, BEV and TCEQ on all the city trucks.
- We have installed 4 additional charge stations within our production facility so as to enable charging 5 trucks at the same time.
- The 6 FedEx trucks will be ready for road testing within the month.
- We have also managed to over spend our cost share amount of this grant.
- We finally have success with a working unit of the “swing door” variety which we will be using for the next 6 city trucks on the flat beds and the service-body buildouts. The handles are similar to those on a fire truck which is different from all of the previous delivery van’s doors which are sliding doors. This has been one of the major challenges with the engineering differences with this model variation. The first hardware vendor we spent several months with before it became apparent their product would not work. Our second vendor for this product is performing very nicely.
- We spent 2 days with the UPS vehicle engineers in our plant going through final design specs before we start building the chassis for the UPS vehicles.
- We have our logo onto the mud flaps, hood ornament and interior round horn piece of the steering wheel as part of our ongoing commercialization plan.
- We have also arranged to have a truck and sales rep at the Rocky Mountain Fleet Managers conference in Fort Worth, Texas, in September 2012 as part of our ongoing commercialization plan for Texas.

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

- All of these are for Task 2 except the road testing which was prep for Task 3.

Section II: Problems/Solutions

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

- a) We have discovered a vibrational noise coming from the drive train above 62 miles per hour. We believe this is due to angle variation between the drive shaft and the motor and differential. We think we will have a solution for this in the next 5 days.
- b) FedEx has been behind in getting their decal package for this electric truck produced. They have also been behind in getting their charge stations installed.

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

- a) We have opened up then rear end differentials to make sure this is not an internal vendor QC issue with our axle's supplier. At this time we think it is not. We are planning on putting angle changing shims in on the rear end mounts in order to change the angle and relieve the angle differences observed.
- b) The decal package for FedEx has finally been produced by their corporate offices and it appears to be at their printers. It is also very well done and obvious that a good deal of effort finally went into it on their part. The charge stations have finally gotten approval from their physical plant division and are slated for install.

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

- a) At this writing we are awaiting the installation and results of the angle change.
- b) Many conversations were had with the corporate FedEx offices as well as an additional site visit with the Texas manager for fleet maintenance for FedEx in order to expedite the process for decals and charge stations.

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 plan on delivering our first truck to each of the cities in the last half of August 2012 as well as all 6 FedEx trucks.
- We anticipate the FedEx trucks will be have their decals installed and the vehicles will be road tested by the end of august and ready for delivery.
- UPS will be coming out for a final design review before the build starts on their trucks.
- We anticipate delivering the first 9 trucks by August 30, 2012, which is within our Task 3 time line. However we expect delays in the next 9 trucks due to vendor delays. We anticipate 4 of the 6 flatbed and service body trucks will be on their axles.

Date: 8/10/2012

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.*