

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

Contract Number: 58211111473264
Grantee: Alternative Motive Power Systems (AMPS)
Report for the Monthly period: November 2011 **Date Submitted:** December 10, 2011

Section I. Accomplishments

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

- Submitted Contract Amendment Request Form
- Submitted Task 1 Deliverable Report
- Continued programming efforts and also began data acquisition programming. Programming will insure proper communication between sub-systems and establish control over individual components for proper locomotive function. Data acquisition system will provide very precise feedback. This empirical data will allow us to make minor programming changes to improve locomotive function and efficiency.
- Made arrangements with Penn State regarding testing the Odyssey P1800 to check charge and discharge characteristics at temperature ranges from 100 degrees Fahrenheit to 10 degrees Fahrenheit; test results will allow us to insure maximum battery life
- Continued conversations with American Traction Systems regarding improvements to traction motor drive system; these improvements will help overall efficiency and traction motor life.

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

- Task #2

Section II: Problems/Solutions

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

- a) No significant problems

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

- a) None

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

- a) None

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

- Approval of Contract Amendment Request Form
- AMPS will begin ordering initial components

Date: December 10, 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.*