

**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: December 2011 **Date Submitted:** January 10, 2012

Section I. Accomplishments

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

- Submitted Sub-contractor Approval Form
- Continued programming efforts and continued 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.
- Batteries delivered to Penn State for testing the Odyssey P1800; checking 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. Test procedures refined.
- Issued purchase order to American Traction Systems for inverter skid assembly and submitted down payment of \$75,000.
- Began plan for final schedule of component and component drawing acquisition schedule.

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

- Acceptance of Sub-Contractor Approval Form
- AMPS will continue ordering required components

Date: January 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.*