

**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:** June 2011 **Date Submitted:** July 10, 2012

**Section I. Accomplishments**

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

- Continued programming efforts and continued data acquisition programming. Programming will ensure 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.
- AMPS rescheduled deliver of completed traction motor rack assembly from ATS for July 16, 2012. Installation in cab/short-hood “module” will allow us to test system prior to shipment to Railserve.
- Continuing to implement component & component drawing acquisition per schedule and have made significant progress toward incorporating component drawings into our Solid Works 2012 locomotive drawings.
- Continued modification of cab/short-hood. Installation of operator control stand and roll-up door in short hood has begun. Shipping of completed and populated short hood to Railserve has slipped. We anticipate shipment in July 2012 with all incorporated sub-systems having been tested.
- Axle generator is still being tested on a Railserve locomotive in Michigan. We have confirmed that the unit continues to provide improved signal and has had no durability issues. We will continue testing to ensure longevity. Incorporation of this new “AMPS designed and manufactured) axle generator will result in improved traction control and the elimination of “faults” due to poor signal quality.
- Delivery of major components are still minimally delayed but should arrive in time for completion of the locomotive this Fall 2012.

*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*

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

## **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*

- Continued software development
- Continue axle generator durability testing
- Priming of cab/short-hood module in and installation of sub-systems; ship completed assembly
- Completion of design and initial fabrication of long hood
- AMPS will continue ordering required components
- Continue rebuild of complete truck assemblies and traction motors
- Complete design of engine/generator modules

*Date:* July 10, 2012

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*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.*