

## **NTRD Program Disclaimers**

### **1. Disclaimer of Endorsement:**

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

Contract Number: 582-5-70807-0012

Grantee: Railpower Hybrid Technologies Corporation

Date Submitted: \_\_\_\_\_

Report for the **Monthly** period:

Starting Date 12/09/04 Ending Date 07/31/05

**Section I. Accomplishments** *(Please provide a bulleted list of project accomplishments as well as a description of their importance to the project.)*

- Performed survey of the work performed by "local hauler" locomotives on one of the major railroads. The survey was carried out in two important, heavily trafficked regions, with inherently different operating practices
- Conducted ride-alongs with UP/Fresno, CA and CSX in Ottawa, IL on their various local hauler operations. The visits included informal interviews/discussions with superintendents, dispatchers, yard managers, MTO's (managers of train operations) and engineers. Information was collected for various duty cycles (easy, typical, or extremely difficult) also speed/tractive effort requirements. Additional data was collected from the event recorders (the "black box") and simulations were carried out for different hybrid locomotive configurations.
- Basic modeling has been done using Davis tables/equations with various configurations of locomotives and types of terrain to establish the suitability of each configuration for the different types of terrain
- Engine manufacture and specific model identified
- Design of location of apparatus with regards to 2 gen-set layout
- Suppliers identified for cab and hoods
- Gen sets and air compressor ordered

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

2.1.2  
2.2.1.3

Section II: Problems/Solutions

<p><b>Problem(s) Identified</b></p> <p><i>(Please report anticipated or unanticipated problem(s) encountered and its effect on the progress of the project)</i></p>	
<p><b>Proposed Solution(s)</b></p> <p><i>(Please report any possible solution(s) to the problem(s) that were considered/encountered)</i></p>	
<p><b>Action(s) Conducted and Results</b></p> <p><i>(Please describe the action(s) taken to resolve the problem(s) and its effect)</i></p>	

**Section III. Goals and Issues for Succeeding Period:** *(Please 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)*

- Purchase Core
- Strip Core
- Begin assembly of prototype

\_\_\_\_\_ Date: \_\_\_\_\_  
*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.*