

NTRD Program Disclaimers

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

Contract Number: 592-5-70807-0004

Grantee: Baytech Corporation

Date Submitted: 30 October 2005

Report for the **Monthly** period:

Starting Date: 1 September 2005

Ending Date: 30 September 2005

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

- 1) Modified Baytech CNG sequential Multi-Port Fuel Injection (MPFI) system for propane operation on the 6.0L GM engine. This included new propane hardware (propane gaseous injectors/injector block, propane vaporizer, propane filters) and initial modifications to the fuel control software to optimize for propane fuel.
- 2) Installed prototype Baytech sequential MPFI propane system on a 6.0L GMC 2500 development vehicle equipped with a 60 gallon propane tank.
- 3) Began conducting driveability and performance evaluations to optimize hardware and engine calibration software.
- 4) Modifications were made to the propane fuel injectors to meet the idle and full throttle fuel requirements of the 6.0L engine. Baytech also made iterative changes to the initial engine calibration software based upon hardware modifications and on-road performance evaluations.

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

Items 1, 2 3 and 4 are related to the activities in SOW Task 1 for the 6.0L propane engine.

Section II: Problems/Solutions

<p>Problem(s) Identified</p> <p><i>(Please report anticipated or unanticipated problem(s) encountered and its effect on the progress of the project)</i></p>	<p>Baytech 6.0L LPG heavy duty engine testing is to be conducted at SwRI. SwRI has a limited number of test cells that can accommodate our testing needs, and SwRI has indicated to Baytech that the earliest opening available for the test time required by Baytech is January 2006</p>
<p>Proposed Solution(s)</p> <p><i>(Please report any possible solution(s) to the problem(s) that were considered/encountered)</i></p>	<p>Baytech plans to conduct the 6.0L LPG and CNG heavy duty engine testing at SwRI in January 2006.</p>
<p>Action(s) Conducted and Results</p> <p><i>(Please describe the action(s) taken to resolve the problem(s) and its effect)</i></p>	<p>Baytech has made arrangements with SwRI to conduct 6.0L engine testing in January 2006. In order to accommodate this change in the testing schedule, Baytech requests a 4 month no-cost schedule time extension for all project tasks.</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)*

Baytech will continue to develop the 6.0L LPG sequential Multi-Port Fuel Injection System prototype. This will include further evaluation of fuel injection system hardware, and optimization of the LPG engine calibration by conducting on-road driveability, performance, and hot/cold start evaluations.

Baytech will begin preparations for heavy duty engine testing at Southwest Research Institute.

Richard P. Turner
Authorized Project Representative's Signature

Date: 10/30/05