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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: 14 November 2005

Report for the **Monthly** period:

Starting Date: 1 October 2005 Ending Date: 31 October 2005

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

1) Idle instability performance problems with Baytech's 6.0L propane sequential Multi-Port Fuel Injection system prototype on the development vehicle were solved by changing the propane fuel injectors (which were the same injectors used on Baytech's 8.1L propane system) to lower flow injectors. Significant changes to the engine calibration software were required to accommodate the new injectors.

2) Baytech continued to refine the 6.0L propane engine calibration software in the development vehicle via on-road driveablity and performance evaluations.

3) Baytech constructed prototype mounting brackets for the propane injector block and propane vaporizer to standardize the system installation.

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

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

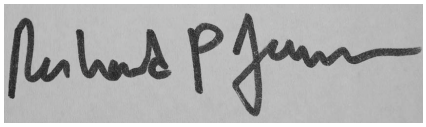
Section II: Problems/Solutions

Problem(s) Identified (*Please report anticipated or unanticipated problem(s) encountered and its effect on the progress of the project)*	Southwest Research Institute has a limited number of test cells that can accommodate our 6.0L heavy duty engine emission testing (Task 3) needs. The earliest opening available for the test time required by Baytech is January 2006. This testing schedule, which had already been delayed by several months due to our decision to use a 2006 Model Year 6.0L engine for propane system development and emissions certification, will cause a delay in the completion of all project tasks.
Proposed Solution(s) *(Please report any possible solution(s) to the problem(s) that were considered/encountered)*	Baytech will conduct the 6.0L propane and CNG heavy duty engine testing at SwRI in mid-January 2006. In order to accommodate this change in the testing schedule, Baytech requests a 4 month no-cost time extension for all project tasks.
Action(s) Conducted and Results *(Please describe the action(s) taken to resolve the problem(s) and its effect)*	Baytech has made arrangements with SwRI to conduct 6.0L engine testing in mid-January 2006. Baytech is requesting a 4 month, no-cost time extension on all project tasks.

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 optimize the 6.0L propane engine calibration by conducting on-road driveability, performance, and hot/cold start evaluations.

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



_____ Date:_____11/14/05_____

Authorized Project Representative's Signature