

NTRD Program Disclaimers

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

Contract Number: 582-5-70807-0006

Grantee: Railroad Commission of Texas

Date Submitted: May 10, 2006

Report for the **Monthly** period:

Starting Date: April 1, 2006

Ending Date: April 30, 2006

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

1. CARB has approved the test plan that Engine Control Systems, Ltd. (ECS, formerly Lubrizol) submitted for testing of the TermiNOx system on the GM 4.3-liter V6 engine. We are writing an agreement memo with ECS that will be submitted to TCEQ for approval prior to the beginning of testing.
2. NETT Technologies has notified the Railroad Commission that they have sent their test plan to CARB and have received informal approval. NETT is developing a procedure for durability testing and has reported that they have located a system that has accumulated enough hours of service to be used for durability testing.
3. Motive Ventures of Boerne, Texas has not responded with a test plan.
4. Carnot Emission Services of San Antonio, Texas, has reviewed and approved the test protocols and is ready to begin testing.

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

Task I. Select partners

2.1.1 Select retrofit fuel systems

2.1.5 Submit names of verification partners and copies of the agreements

Task 2. Initiate CARB verification process

2.3.1 Select testing laboratory

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><i>The partners for the testing have been selected: ECS and NETT. CARB has approved the testing plan for ECS. With NETT the issue is not as clear, as they are still negotiating with CARB on the plan for durability testing.</i></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><i>AFRED is working with NETT management to include their systems in the RRC/NTRD testing program. NETT has proposed a solution to CARB for durability testing that we believe will be resolved shortly.</i></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><i>ECS has received CARB approval of their retrofit fuel system for 4-cylinder engines. AFTER considerable discussion CARB has approved ECS' test plan for the V6 engine.</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)*

1. *By submission of this report, we are requesting TCEQ's written approval to proceed with testing at Carnot Emission Services.*
2. *Receive CARB written approval of ECS's testing plan for the GM 4.3L program; secure TCEQ approval to proceed. We have received verbal approval from CARB at this time.*
3. *Receive CARB approval of NETT's testing plan for the GM 4.3L program; secure TCEQ approval to proceed.*
4. *Schedule test cell time; implement testing of one or both fuel systems on the GM 4.3L engine.*



Date: May 10, 2006

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.*