

## **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: 582-5-70807-0006

Grantee: Railroad Commission of Texas

Date Submitted: March 10, 2006

Report for the **Monthly** period:

Starting Date: February 1, 2006

Ending Date: February 28, 2006

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

1. Engine Control Systems, Ltd. (ECS, formerly Lubrizol) has forwarded to CARB its plan for testing of the TerminoX system on the GM 4.3-liter V6 engine. If the plan is approved and testing under the current program demonstrates that the GM 4.3 complies with CARB verification standards, the retrofit market will be increased, because the GM 4.3 represents a substantial share of the installed base of forklift engines in Texas.
2. NETT Technologies, the marketer of Safe Controls' (El Paso, Texas) retrofit fuel system and a marketer of standard air valve system, has notified the Railroad Commission that they have sent their testing plan to CARB and have received informal approval. NETT has not yet provided the Railroad Commission with a copy of CARB's written approval.
3. A third potential manufacturer participant, Motive Ventures of Boerne, Texas, has not followed up on their original letter of interest. WE believe that they are no longer interested in certifying their equipment.
4. Carnot Emission Services of San Antonio, Texas, has reviewed and approved the test protocols and is prepared to begin testing when CARB has approved ECS' and NETT's test plans.

**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><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><i>The partners for the testing have been selected: ECS, NETT and Motive Ventures. ECS and NETT are almost ready to proceed with the testing. Motive Ventures' participation is doubtful at this time.</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><i>AFRED is working with NETT management to include their systems in the RRC/NTRD testing program. NETT has been asked to furnish the necessary documentation for the CARB verification process. NETT has indicated that they are still working on testing plan approval with CARB. No plan has been received from NETT at this time.</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>	<p><i>ECS has received CARB approval of their retrofit fuel system for 4-cylinder engines and has submitted its test plan for the V6 engine to CARB. Carnot has reviewed the ECS/RRC test protocol and is prepared to initiate testing once CARB has approved the test plans in writing.</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 additional documentation from ECS indicating CARB approval of their testing plan for the GM 4.3L program; secure TCEQ approval to proceed.*
3. *Receive additional documentation from NETT indicating CARB approval of their 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.*
5. *Contact Motive Ventures to clarify their plans.*



Date: March 10, 2006

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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.*