

## **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: August 10, 2006

Report for the **Monthly** period:

Starting Date: July 1, 2006

Ending Date: July 31, 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. A copy of the test plan without confidential data has been submitted to TCEQ.
2. TCEQ has also received a copy of the contract for testing that is in force between ECS and the Railroad Commission.
3. With TCEQ's approval, a purchase order was issued to Carnot Emissions Services to procure an engine, prepare it for testing, and conduct initial tests of the ECS system.
4. ECS was asked to ship the conversion hardware so it can be fitted to the testing engine. ECS has asked that the make and model of forklift from which the engine is taken be identified so that the interconnections can be exact. We will try to accommodate them but may not be able to because of time constraints.
5. We have again requested from NETT Technologies a copy of their test plan and CARB approval. We have not received this yet. We have also sent them a draft contract for review and approval. CARB has told us that have approved NETT's test plan in concept but have requested a few minor changes.
6. TCEQ and the Railroad Commission have extended the term of this NTRD contract until December 31, 2006.

**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>NETT reports that CARB has approved their test plan, but they appear to want to change some of the components that they are using.</i></p> <p><i>Delays in securing CARB approval of these test plans require a no-cost extension of the contract until December 31, 2006.</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>NETT has been asked to provide copies of the test plan and CARB approval. A contract was forwarded to them to advance the process.</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>A no-cost extension of the NTRD grant contract through December 31, 2006, has been executed.</i></p> <p><i>A testing contract with ECS has been executed.</i></p> <p><i>A purchase order has been issued to Carnot Emissions Systems.</i></p> <p><i>A draft testing contract has been sent to NETT for review.</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. Sign a contract with NETT for the testing of their system.
2. Receive CARB written approval of NETT's testing plan for the GM 4.3L program; secure TCEQ approval to proceed.
3. Procure engine and start testing the ECS system at Carnot.



Date: August 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.*