

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: November 10, 2005

Report for the **Monthly** period:

Starting Date: October 1, 2005

Ending Date: October 31, 2005

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

1. AFRED staff met with Lubrizol representative Cesar Bauman in Austin. Lubrizol advised that the company has submitted emissions test results to CARB to verify its retrofit fuel system on all in-line four-cylinder forklift engines. No additional testing of the system on in-line four-cylinder engines will be required under the NTRD program. Lubrizol wishes to test its system on V-type engines such as the General Motors 4.3L engine under the NTRD program. Current plans call for testing to begin using that engine.
2. Precision Governors has told us informally that the company has decided not to market low-NOx retrofit fuel systems for forklift trucks. We are awaiting written confirmation of this decision. AFRED plans to proceed with testing of the Lubrizol system [see below] and to continue to work with NETT Technologies, Motive Ventures, and other manufacturers as funds permit.
3. A third potential manufacturer participant, Motive Ventures of Boerne, Texas, a start-up company, has inquired into the program and announced that they are working on a test plan to be submitted to CARB.
4. NETT Technologies is the marketer of Safe Controls' (El Paso, Texas) retrofit fuel system and a marketer of IMPCO systems. NETT is in communication with CARB on a proposed testing protocol and has submitted proposed test plans to CARB for approval on two systems. The first system works with IMPCO hardware, for which NETT supplies the controller and catalyst. The second system uses the Safe Controls hardware. We expect to be able to test only one of these systems, to be determined after CARB approves NETT's test plans. We are reviewing their plans at the present time.
5. One bid was received in response to the Commission's IFB for verification emissions testing. The bidder is Carnot Emission Services of San Antonio, Texas. The bid has been evaluated by AFRED staff. Carnot is qualified and the bid is within budget, but the bid package did not include a written statement from CARB that Carnot is a CARB-approved laboratory. We are discussing our options at this point with the Railroad Commission's purchasing office. Assuming this defect can be remedied, a purchase order will be issued to Carnot for the testing upon receipt of CARB and TCEQ approval of the laboratory. Testing is expected to commence 4-8 weeks after the issuing of the purchase order.

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>Safe Controls has not communicated their interest in the program in the last 4 months.</i></p> <p><i>AFRED has learned informally that Precision Governors has decided not to enter the low-NOx retrofit fuel system market for forklifts.</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>NETT Technologies is now marketing Safe Controls' fuel system. AFRED is talking with NETT management about possible participation in the NTRD verification project to replace Precision Governors.</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>See above</p>
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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. Secure TCEQ and CARB approval of selected laboratory; issue PO for initial testing.
2. Receive additional documentation from Lubrizol; plan GM 4.3L testing program.
3. Continue to work with NETT and/or Motive Ventures as potential additional manufacturers.



Date: November 10, 2005

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.*

1. Invitation for Bids for laboratory testing services. Bids opened Oct. 28.