

## **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-M031

Grantee: Extengine Transport Systems, LLC

Date Submitted: 06/12/06

Report for the **Monthly** period:

Starting Date 05/01/06 Ending Date 5/31/06

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

Task 1: (all technical work is included in this task)

- Conducted meeting with EPA, Cliff Dean and Denis Johnson to discuss test plan and system characteristics. CARB staff participated by telephone.
  - Aging must be in the field – not on engine dyno.
  - DPF regeneration conditions need better definition and example data.
  - SCR urea consumption must be better documented; including operator notification of problems.
- Negotiating with Waste Management to use a trash collection vehicle for durability.
- Tested system on Mack E7 engine for DPF regeneration. Demonstrated light PM loading after 10 hours of operation.

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

These accomplishments relate to preparation of test hardware and the initiation of testing. Work to date is required prior to start of testing. These charges are not reimbursable by the grant. A no-charge FSR is submitted with this report.

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>EPA/ARB review and program approval is taking longer than expected.</p> <p>Aging on engine dynos will not be accepted.</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>Additional testing may be required to resolve some questions, including system backpressure.</p> <p>Obtain commitment for on-road durability from vehicle operator.</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>In person negotiation with EPA regarding program scope and approach – no resolution at this time.</p> <p>Contact Waste Management to obtain a test vehicle in Southern California.</p>

<p>Action(s) Conducted and Results</p> <p>(Please describe the action(s) taken to resolve the problem(s) and its effect)</p>	<p>Response is being prepared to CARB/EPA questions.</p> <p>WM has agreed in principal to allow use of a vehicle for testing. Attempting to locate a vehicle with Mackc E-7 engine. Most common engine in California is Cummins M11.</p> <p>.</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)*

Goals:

- Obtain approval from EPA to begin on-road durability.
- Negotiate test protocol between RTI, SwRI, EPA and ARB

Issues:

- Resolution of ARB/EPA questions
- System backpressure is significantly higher than OE specification
- Verification criteria for SCR/DPF performance



June 12, 2006

Date: \_\_\_\_\_

\_\_\_\_\_  
*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.*