

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: November 10, 2005

Report for the **Monthly** period:

Starting Date 12/1/05 Ending Date 12/31/05

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)

- Alternative SCR and DPF test hardware has been installed and tested.
- Two SCR catalyst designs are being compared – zeolite and vanadia based.
- SCR Control system uses forward control rather than map.
- Continuing negotiations with EPA and RTI regarding test requirements:
 - Introduction of alternative hardware/software approaches
 - Aging cycle and equipment for aging test hardware
 - Field tests of the SCR and DPF components.
- Alternative DPF systems will be installed on off-road construction equipment in Idaho.
- Revised ARB application is being prepared for early January submittal.
- EPA ETV application has been reviewed with additional clarification required.

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 attached with this report.

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>EPA/ARB review and program approval is taking longer than expected</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>Consider completing only CARB verification protocol. CARB will accept vanadium catalysts.</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>E-mail and telephone negotiation with EPA, RTI, and ARB regarding program scope and approach – no resolution at this time.</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)*

Goals:

- Complete negotiation on program test protocol between RTI, SwRI, EPA and ARB.
- Receive zeolite SCR catalysts.
- Preliminary tests with SCR forward control system indicate 70%+ NOx efficiency with now increase in other pollutants. .
- Issue PO to RTI

Issues:

- Resolution of ARB/EPA questions
- Verification of SCR and DPF performance.
- Delay in starting test program – contract period may expire before test plan is approved by RTI. Extengine will request an extension in the contract if test plan approval cannot be obtained by February 2006.



January 10, 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.*