

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-T041

Grantee: O2Diesel, Inc.

Date Submitted: September 16, 2005

Report for the Monthly period: **August 2005**

Starting Date: August 1, 2005 Ending Date: August 31, 2005

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

- Drs. W. Miller and T. Durbin from University of California and Mark Adair from O2Diesel used DDC diagnostic software to make the determinations about the engine and test stand functions. This was intended to ensure that the DDC Series 60 is ready for the test sequence.
- A test sequence has been run on an O2Diesel™ fuel with the O-S additive package & determined that with a few minor adjustments in fuel(s) and engine parameters, we should be able to achieve TxLED status.
- Further fuel scoping and engine profiling is being conducted, now on a 1991 Detroit Diesel Series 60 engine.

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

“Develop a test protocol in accordance with the procedures specified in Title 30, Texas Administrative Code... to perform emissions testing for the approval of O₂Diesel™ as an alternative diesel fuel formulation for TxLED...”

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>Proposed Solution(s)</p> <p><i>(Please report any possible solution(s) to the problem(s) that were considered/encountered)</i></p>	<p>Additional candidate fuel formulations are being examined in order to determine the most likely ethanol-diesel blended fuel(s) that can achieve TxLED equivalency.</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>	<ul style="list-style-type: none"> • Changed engines and performed intensive tests on engine and test stand. They are ready to go. • Scoping of fuels close to the appropriate mixture.

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. Complete successful scoping of candidate fuel on DDC Series 60 engine by September 30.

Authorized Project Representative's Signature

Date: September 15, 2005

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.*