

NTRD Program Disclaimers

1. Disclaimer of Endorsement:

The posting herein of progress reports and final reports provided to TCEQ by its NTRD Grant Agreement recipients does not necessarily constitute or imply an endorsement, recommendation, or favoring by TCEQ or the State of Texas. The views and opinions expressed in said reports do not necessarily state or reflect those of TCEQ or the State of Texas, and shall not be used for advertising or product endorsement purposes.

2. Disclaimer of Liability:

The posting herein of progress reports and final reports provided to TCEQ by its NTRD Grant Agreement recipients does not constitute by TCEQ or the State of Texas the making of any warranty, express or implied, including the warranties of merchantability and fitness for a particular purpose, and such entities do not assume any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represent that its use would not infringe privately owned rights.

**Texas Commission on Environmental Quality
New Technology Research & Development (NTRD) Program
Monthly Project Status Report**

Contract Number: 582-5-70807-M027

Grantee: Spearhead Technologies – Dean Steiger

Date Submitted: August 10, 2005

Report for the **Monthly** period:

Starting Date July 1, 2005 Ending Date July 31, 2005

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

- Received test procedures from Dr. Scott Wayne from the University of West Virginia (UWVA) and sent a copy to Randy Baylor at TCEQ for review and approval
- Upon approval, we contacted UWVA to request contract
- Received contract form UWVA and returned completed contract with full payment for testing
-
- Completed the test following EPA guidelines, but found out during the test that the test parameters neutralized the patent and its advantages by controlling the temperature of the fuel entering the engine, thus reducing temperature & aeration build-up during normal engine operations
- Met with Dr. Wayne and staff about the preliminary results and discussed testing procedures that more accurately test the reduction of emissions in a real world scenario
- Dr. Wayne is to send test procedures for the test that is tentatively set for the third week of September

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

Successfully completed the preliminary test procedure as required by the EPA

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>The EPA artificially reduced fuel temperature to a constant 97 – 100 degrees Fahrenheit, thus neutralizing the effect of the EngineMaxx patent on reducing emissions</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>With the cooperation of UWVA and Dr. Scott Wayne, they set up a recommended test procedure to accurately measure the emissions reductions of the EngineMaxx patent. The tentative date for the next test is set for the third week of September</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><i>We determined we needed another test procedure to accurately measure the EngineMaxx kits ability to reduce emissions</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)*

- *We will turn in finished test findings as soon as the final fuel analysis is received*
- *Plans for developing EngineMaxx kits for other classes of trucks is underway as well as testing them in the near future*

Authorized Project Representative's Signature

Date: _____

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.*