

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: _____582-5-70807-0007_____

Grantee: _____Lamar University_____

Date Submitted: _____September 15, 2006_____

Report for the Monthly period:

Starting Date ___August 15, 2006___ Ending Date ___September 14, 2006___

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

- **Three 5-Cycle DPF Regeneration Tests Carried Out**

Three soot loading/regeneration tests (5 cycles for each test) were carried out to investigate the effect of DPF regeneration time on the regeneration efficiency. The results from two of the three tests are displayed in Figures 1 through 3 in pages 3 and 4 in this report where Figure 1 is for Test 6-163 with a 10 minutes regeneration time and Figures 2 and 3 are for Test 6-165 with a 5 minutes regeneration time. Analysis of the observed results is currently on-going to identify the optimum regeneration time for the developed microwave technology.

- **DeNO_x and CO/VOC Removal Tests Continued**

Several additional tests for NO reduction (NO standard =1025 ppm in N₂) involving the developed CO/VOC catalyst with hydrocarbon (hexane) were carried out using the newly installed ON-LINE analysis system. The results are currently being analyzed and will be reported in the next Monthly Progress Report.

- **No Cost Extension Approved**

The requested "No Cost Extension" submitted to TCEQ on August 20, 2006 was approved by TCEQ on August 30, 2006. The amended project completion date is November 30, 2006. The extension allows the project to further investigate the long-term effects of several essential parameters on the control efficiency of the developed technology.

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

The above accomplishments are related to Tasks 1, 2, 3, and 4 described in the Scope of Work of the project.

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>None</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>N.A.</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>N.A.</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)*

The goals for the next month are to:

1. perform detailed analysis on the observed results from DPF regeneration experiments to establish optimal regeneration schemes and conditions;
2. perform detailed analysis on the observed results from long-term NO_x control experiments to establish optimal NO_x reduction conditions; and
3. start to prepare the technical reports to summarize the results from the analyses.

The next Monthly Progress Report will be submitted to TCEQ on October 15, 2006.

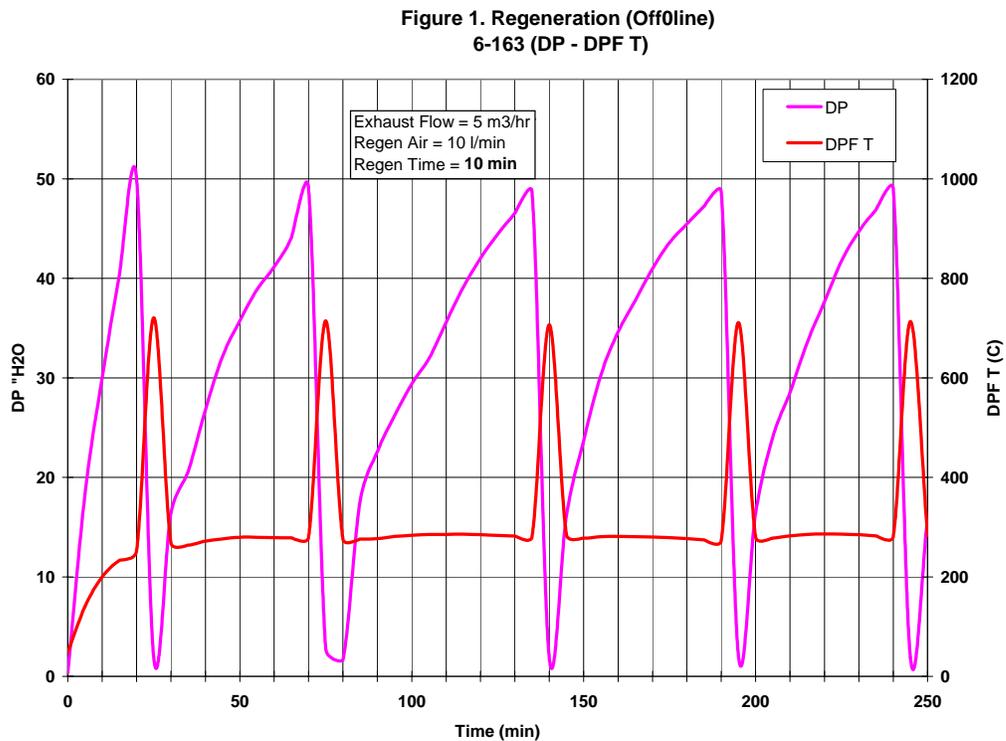


Figure 2. Regeneration (Off-line)
Test 6-165 (CO - DP)

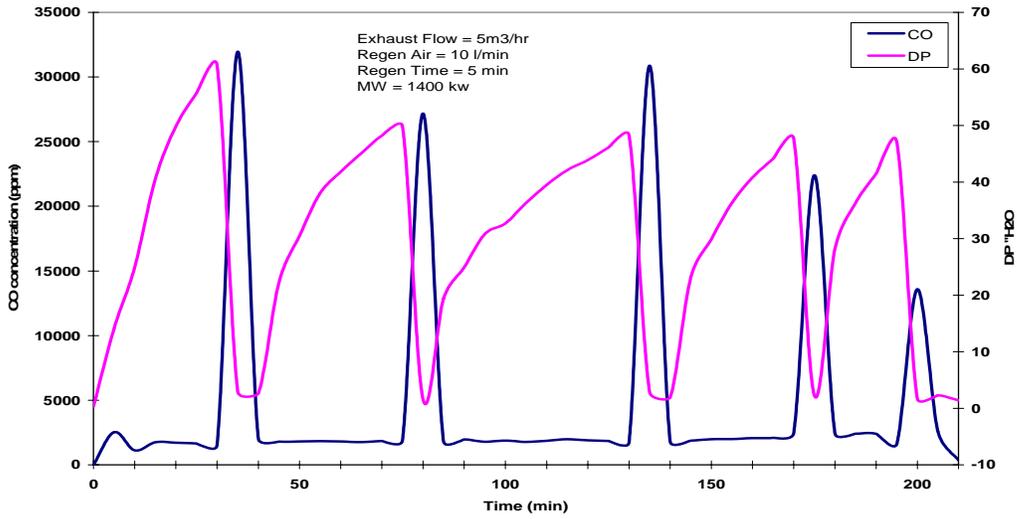
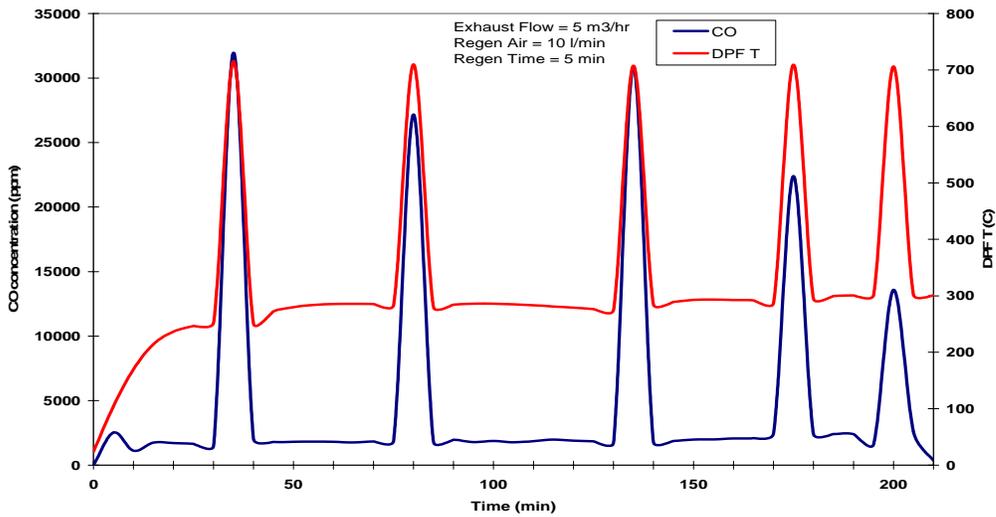


Figure 3 . Regeneration (Off-lin)
Test 6-165 (CO - DPF T)



Date: 9/15/06

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.