

NTRD Program Disclaimers

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

Contract Number: 582-5-70807-0022

Grantee: Combustion Components Associates

Date Submitted: November 10, 2006

Report for the **Monthly** period: October 2006

Starting Date October 1, 2006 Ending Date October 31, 2006

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

October 1-31, 2006 – Continue to aged durability system o Waste Management truck in Dallas, TX

October 26, 2006 – Submitted application and proposed test plan to RTI.

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

: October 1-31, 2006

Section 3: Grant Activities
Article 2: Scope of Work
Task 2: “De-greening” and “Aging” requirements of the EPA/ETV verification program of the Mobile Diesel SCR System (ELIM-NOx).
2.1.1 The performing party will data log and evaluate the duty cycle and estimate system efficiency once installed on Waste Management Trucks.

October 5-31, 2006

Section 3: Grant Activities
Article 2: Scope of Work
Task 3: Program management and reporting

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>Oct 5, 2006 – Waste Management truck 408779 experienced an electrical problem. This resulted in the burning of the fuse in the ELIM NOx system disrupting service. Truck problem found to be Oil Pressure Sensor electrical short.</i></p> <p><i>Oct 6, 2006-Waste Management truck 408779 again experienced an electrical problem which prevented the truck from starting for three days. Waste Management could not locate the problem as the truck started unexpectedly on Oct 9 without problem</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>Oct 16-26, 2006-CCA was trouble shooting the ELIM NOx system for possible electrical problems. The result found that the ELIM NOx system is functionally and electrically sound. The problem was found to be an electrical short in the truck starter coils. This was sending a 35 amp surge through the ELIM NOx system, burning the fuse in the power line every time the truck was started. With a burned fuse the system would not operate.</i></p> <p><i>The solution is to replace the fuse with a re-sttable thermal breaker. This will allow for over current protection to the ELIM NOx system as well as allow the system to operate once the breaker resets after the error condition correct. Thus in this case once the truck was running and the electrical surge had gone away the ELIM NOx system would once again power up and function as designed.</i></p> <p><i>In addition in the event an electrical problem is detected and trips the thermal breaker, a fault code will be stored to memory as well as an alarm light on the in cab display will be illuminated warning the driver of the event.</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>Engineering for the replacement of the fuse with the re-settable breaker in the ELIM NOx system design has been initiated. System specifications and drawings are being updated.</i></p> <p><i>Additionally Waste Management has scheduled the replacement of the starter and starter coil on truck 408779. This has proven good for Waste Management as this problem was now a matter of preventative maintenance instead of operating down time.</i></p> <p><i>CCA will be conducting ELIM NOx validation data gathering in November to confirm ELIM NOx system functionality and NOx reduction.</i></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)*

November 2006 - Close contract with RTI for the ETV process

Validate the system in Dallas

Continue to age second system as back up for testing.



Date: November 10, 2006

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.*